

ENGLISH OS Ver. 2.00 MAN0001093

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Important safety instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Mains powered apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Clean only with dry cloth.
- Do not block any ventilation openings, install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or groundingtype plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. (for U.S.A. and Canada)
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Turning off the power switch does not completely isolate this product from the power line so remove the plug from the socket if not using it for extended periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not install this equipment on the far position from wall outlet and/or convenience receptacle.
- Do not install this equipment in a confined space such as a box for the conveyance or similar unit.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.





The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type.

THE FCC REGULATION WARNING (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the user's authority to operate this equipment.

CE mark for European Harmonized Standards

CE mark which is attached to our company's products of AC mains operated apparatus until December 31, 1996 means it conforms to EMC Directive (89/336/EEC) and CE mark Directive (93/68/EEC).

And, CE mark which is attached after January 1, 1997 means it conforms to EMC Directive (89/336/EEC), CE mark Directive (93/68/EEC) and Low Voltage Directive (73/23/EEC).

Also, CE mark which is attached to our company's products of Battery operated apparatus means it conforms to EMC Directive (89/336/EEC) and CE mark Directive (93/68/EEC).

IMPORTANT NOTICE TO CONSUMERS

This product has been manufactured according to strict specifications and voltage requirements that are applicable in the country in which it is intended that this product should be used. If you have purchased this product via the internet, through mail order, and/or via a telephone sale, you must verify that this product is intended to be used in the country in which you reside.

WARNING: Use of this product in any country other than that for which it is intended could be dangerous and could invalidate the manufacturer's or distributor's warranty.

Please also retain your receipt as proof of purchase otherwise your product may be disqualified from the manufacturer's or distributor's warranty.

Data Handling

Data in memory may sometimes be lost due to incorrect user action. Be sure to save important data to floppy disk or hard disk. Korg will not be responsible for damages caused by data loss.

Example screens

Some pages of the manuals show LCD screens along with an explanation of functions and operations. All sound names, parameter names, and values are merely examples and may not always match the actual display you are working on.

Cleaning the display

Use a soft cotton cloth to clean the screen. Some materials, such as paper towels, could cause scratches and damage it. Computer wipes are also suggested, provided they are specifically designed for LCD screens.

Do not spray any liquids on the LCD screen directly. Always apply the solution to your cloth first, then clean the screen.

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Disclaimer

The information contained in this manual have been carefully revised and checked through. Due to our constant efforts to improve our products, the specifications might differ to those in the manual. Korg is not responsible for any eventual differences found between the specifications and the contents of the instruction manual – the specifications being subject to change without prior notice

Liability

Korg products are manufactured under strict specifications and voltages required by each country. These products are warranted by the Korg distributor only in each country. Any Korg product not sold with a warranty card or carrying a serial number disqualifies the product sold from the manufacturer's/distributor's warranty and liability. This requirement is for your own protection and safety.

Service and User's Assistance

For service, please contact your nearest Authorized Korg Service Center. For more information on Korg products, and to find software and accessories for your keyboard, please contact your local Authorized Korg distributor. For up-to-date information, please point your web browser to www.korgpa.com.

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The **BALANCE** slider

When turning the instrument on, please be assured the BALANCE slider is set to the center. This sets both Sequencer 1 and Sequencer 2 to their maximum level. This will avoid you start a Song without hearing anything.

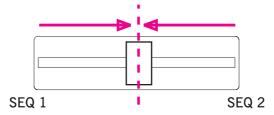


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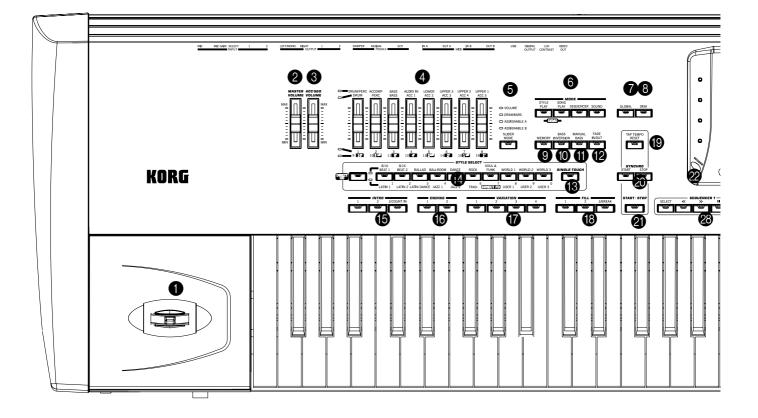
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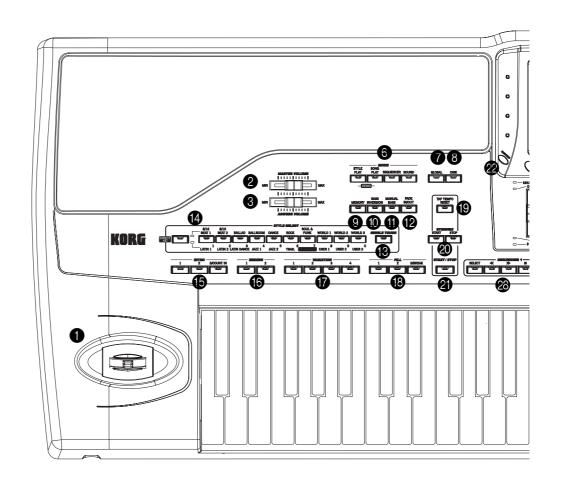
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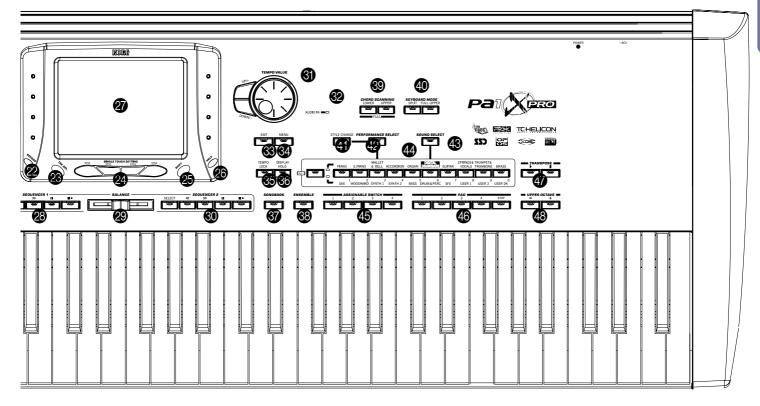
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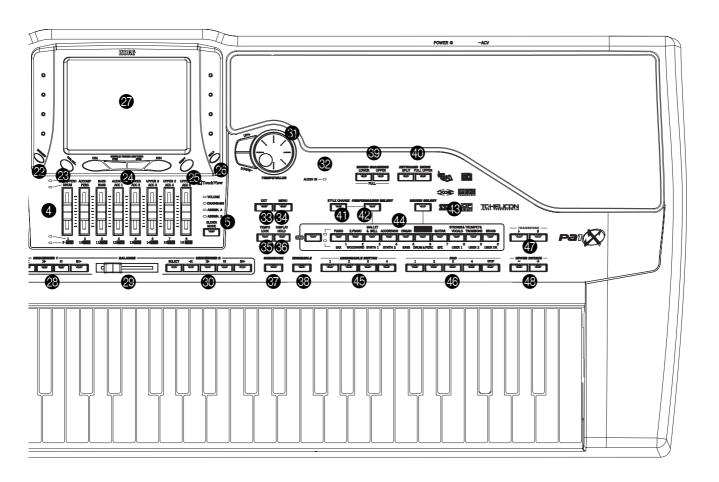












JOYSTICK

This joystick triggers different functions, depending on the direction it is moved towards.

X (+/-)	Move the joystick towards the left (–) to lower the
	pitch, or towards the right (+) to raise it. This is
	also called Pitch Bend.

- Y+ Move the joystick forward to trigger Modulation.
- Y– Move the joystick backward, to trigger the function assigned in Sound mode.

MASTER VOLUME 2

This slider controls the overall volume of the instrument, both of the internal speakers (only Pa1X), the LEFT/MONO and RIGHT outputs, and the HEADPHONES output. It does not control the volume of the 1 and 2 sub-outputs.

This slider also controls the volume of the signal entering the MIC input. It does not control the signal entering the line inputs (1 and 2).

Warning: At the maximum level, with rich-sounding Songs, Styles or Sounds, the internal speakers of Pa1X could distort during signal peaks. Should this happen, lower the Master Volume a little.

ACC/SEQ VOLUME

This slider controls the accompaniment tracks volume (Style Play mode) or the Song tracks volume, excluding the Keyboard tracks (Song Play and Sequencer modes). This is a relative control, whose effective maximum value is determined by the MAS-TER VOLUME slider position.

ASSIGNABLE SLIDERS

below).

▶ GBL^{Gbl} These are freely assignable sliders (see "Controllers: Assignable Sliders" on page 229). Four operating modes are available, and can be selected by pressing the SLIDER MODE button (see

SLIDER MODE 6 ▶PERF ▶STS ▶STS^{SB}

Use this button to select one of the four available operating modes for the sliders.

- VOLUME Each slider controls the volume of the corresponding track in the display.
- DRAWBARS Each slider controls the corresponding drawbar of the selected Digital Drawbars Sound.
- ASSIGN. A First set of freely assignable controls.
- ASSIGN. B Second set of freely assignable controls.

6 MODE section

Each of these buttons recalls one of the instrument's operating modes. When selected, each mode excludes the others.

STYLE PLAY Style Play mode, where you can play Styles (automatic accompaniments) and/or play up to four Keyboard tracks.

> In the main page, Keyboard tracks are shown in the right half of the display. You can reach the main page by pressing EXIT from any of the Style Play edit pages. If you are in a different operating mode, press STYLE PLAY to recall the Style Play mode. If Keyboard tracks are not shown in the display, press the TRK. SEL. button to see them.

This operating mode is automatically selected when turning the instrument on.

SONG PLAY Song Play mode, where you can play back, directly from disk, Songs in Standard MIDI File (SMF) or (optionally) MP3 and Audio CD format. Since the Pa1X is equipped with two sequencers, you can even play two Songs at the same time, and mix them with the BALANCE slider.

> In addition to the Song tracks, you can play one to four Keyboard tracks, along with the Song(s). In the main page, Keyboard tracks are shown in the right half of the display. You can reach the main page by pressing EXIT from any of the Song Play edit pages. If you are in a different operating mode, press SONG PLAY to recall the Song Play mode. Use the TRK. SEL. button to cycle between Keyboard and Song tracks.

SEQUENCER Sequencer mode, where you can play, record or edit a Song. The Backing Sequence mode lets you record a new Song based on the Keyboard and Style tracks, and save it as a new Standard MIDI File.

SOUND Sound mode, to play single Sounds on the keyboard, or edit them. By pressing RECORD you can enter the Sampling mode, Pa1X full-featured sampler.

DEMO Press the STYLE PLAY and SONG PLAY buttons together to select the Demo mode. This mode lets vou listen to some Demo Songs, to let you understand the sonic power of the Pa1X.

GLOBAL

This button recalls the Global edit environment, where you can adjust various global settings. This edit environment overlaps any operating mode, that still remains active in the background. Press EXIT to go back to the underlying operating mode.

8 DISK

This button recalls the Disk edit environment, where you can execute various operations on files and disks (Load, Save, Format, etc...). This edit environment overlaps any operating mode, that still remains active in the background. Press EXIT to go back to the underlying operating mode.

Ø MEMORY

This button turns the Lower and Chord Memory functions on or off. Go to the "Preferences: Style Preferences" edit page (Style Play mode, see page 93) to decide if this button should be a Chord Memory only, or a Lower/Chord Memory button. When it works as a Lower/Chord Memory:

►SB

Note: This function can be automatically activated by playing harder the keyboard. See "Velocity Control" on page 93.

- ON The sound on the left of the split point, and the chord for the automatic accompaniment, are kept in memory even when you raise your hand from the keyboard.
- OFF The sound and chords are released as soon as you raise your hand from the keyboard.

BASS INVERSION

▶PERF ▶STS ▶STS^{SB}

This button turns the Bass Inversion function on or off.

Note: This function can be automatically activated by playing harder the keyboard. See "Velocity Control" on page 93.

- ON The lowest note of a chord played in inverted form will always be detected as the root note of the chord. Thus, you can specify to the arranger composite chords such as Am7/G or "F/C".
- OFF The lowest note is scanned together with the other chord notes, and is not always considered as the root note.

I MANUAL BASS ►PERF ►STS ►STS^{SB}

This button turns the Manual Bass function on or off.

Note: When you press the MANUAL BASS button, the Bass track volume is automatically set to its maximum value. The volume is automatically set back to the original value when the MANUAL BASS button is deactivated.

- ON The automatic accompaniment stops playing (apart for the Drum and Percussion tracks), and you can manually play the Bass track on the Lower part of the keyboard. You can start the automatic accompaniment again by pressing one of the CHORD SCANNING buttons.
- OFF The bass track is automatically played by the Style.

PADE IN/OUT

When the Style is not playing, press this button to start it with a volume fade-in (the volume goes from zero to the maximum).

When the Style is playing back, press this button to stop it with a volume fade-out (the volume gradually decreases).

You don't need to press START/STOP to start or stop the Style.

I SINGLE TOUCH

This button turns the Single Touch function on or off.

- ON When a different Style (or the same again) is selected, a Single Touch Setting (STS1) is automatically selected, meaning that the Keyboard tracks and effects will change, together with the Style tracks and effects.
- OFF When you select a different Style (or the same again), the Style tracks and effects are changed, while the Keyboard tracks and effects are not changed.

If STYLE SELECT section

Use these buttons to open the Style Select window and select a Style. See "Style Select window" on page 73.

The leftmost button lets you select the upper or lower row of Style banks, or the DIRECT HD Style banks (only if the hard disk is installed). Press it repeatedly to select one of the rows. (After both LEDs have turned on, press the button again to turn them off).

UPPER LED ON

Upper-row Styles selected.

LOWER LED ON

Lower-row Styles selected.

BOTH LED ON

DIRECT HD Styles selected (if any). Direct HD Styles are accessed by pressing buttons [1-9].

A word about Style banks and names. Styles from "8BEAT/16 BEAT" to "WORLD 3", and from "LATIN1" to "TRADITIONAL" are standard Styles, the user can't normally overwrite with a Load operation (unless you remove the protection; see "Factory Style and Pad Protect" on page 265).

"DIRECT FD" Styles are Styles directly accessed from floppy disk (no need to load from disk). See "The DIRECT FD bank" on page 98.

"DIRECT HD" Styles are directly accessed from the hard disk, if installed (again, no need to load from disk). See "The DIRECT HD bank" on page 97.

Styles from "USER1" to "USER3" are location where you can load new Styles from disk.

Each button (Style bank) contains four pages, each with up to eight Styles. Repeatedly press a bank button to cycle between the available pages.

INTRO 1-3/COUNT IN buttons →PERF →PERF^{Sty} →SB

These buttons set the arranger in Intro mode. After pressing one of these buttons, start the Style, and it will begin with the selected intro. The INTRO LED automatically goes off at the end of the intro.

Press them twice (LED blinking) to let them play in loop, and select any other Style element (Fill, Intro, Variation...) to exit the loop.

Note: Intro 1 plays a short sequence with different chords, while Intro 2 plays on the last recognized chord. Intro 3 is usually a one-bar Count In.

ENDING 1-2 buttons

▶PERF ▶PERF^{Sty} ▶SB

While the Style is running, these two buttons trigger an Ending, and stop the Style. Press one of them, and the Style will stop running with an Ending. If pressed while the Style is stopped, they act as an additional couple of Intros.

Press them twice (LED blinking) to let them play in loop, and select any other Style element (Fill, Intro, Variation...) to exit the loop.

Note: Ending 1 plays a short sequence with different chords, while Ending 2 plays on the last recognized chord.

WARIATION 1-4 buttons

▶PFRF

▶PERF ▶PERF^{Sty} ▶SB

Each of these buttons select one of the four variations of the current Style. Each variation can vary in patterns and sounds.

B FILL 1-3/BREAK buttons

► PERF ► PERF^{Sty} ► SB

These buttons trigger a fill-in. Press them twice (LED blinking) to let them play in loop, and select any other Style element (Fill, Intro, Variation...) to exit the loop.

Note: Fill 3 is usually a Break.

Note: This function can be automatically activated by playing harder the keyboard. See "Velocity Control" on page 93.

TAP TEMPO/RESET

This is a double-function button, acting in a different way depending on the Style status (stop/play).

Tap Tempo: When the Style is not playing, you can "beat" the tempo on this button. At the end, the accompaniment starts playing, using the "tapped in" tempo.

Reset: When you press this button while the Style is playing back, the Style pattern goes back to the previous strong beat.

SYNCHRO START / STOP buttons >SB

These buttons turn the Synchro Start and Synchro Stop functions on or off.

START ON, STOP OFF

In this situation, just play a chord in the chord recognition area (usually under the split point, see "CHORD SCANNING section" on page 11) to automatically start the Style. If you like, turn one of the INTROS on before starting the Style.

START ON, STOP ON

When both LEDs are lit, raising your hand from the keyboard momentarily stops the Style running. If you play a chord again, the Style starts again.

START OFF, STOP OFF

All Synchro functions are turned off.

START/STOP

Starts or stops the Style running.

Note: This function can be automatically activated by playing harder the keyboard. See "Velocity Control" on page 93.

SHIFT You can reset all 'frozen' notes and controllers on the Pa1X and any instrument connected to its MIDI OUT, by using the "Panic" key combination. Just press SHIFT + START/STOP to stop all notes and reset all controllers.

RECORD

This button sets the instrument to Record or Sampling mode (depending on the current operating mode).

TRK.SEL. (TRACK SELECT)

Depending on the operating mode, this button switches between the various tracks view.

STYLE PLAY MODE

Toggles between Keyboard and Style tracks.

SONG PLAY MODE

Toggles between Keyboard tracks, Song tracks 1-8, and Song tracks 9-16.

SEQUENCER MODE

Toggles between Song tracks 1-8 and Song tracks 9-16.

SINGLE TOUCH SETTING buttons

These buttons allow to select up to four Single Touch Settings. Each of the Styles and SongBook entries includes a maximum of four Single Touch Settings (STS), to automatically configure Keyboard tracks and effects, and the Voice Processor, at the touch of a finger. When the SINGLE TOUCH LED is lit, an STS is automatically selected when selecting a Style.

SHIFT

With this button held down, pressing certain other buttons accesses to a second function.

HELP

Press this button to open the context-sensitive Help.

② COLOR TOUCHVIEW™ GRAPHICAL DISPLAY

Use this display to interact with the instrument.

SEQUENCER 1 TRANSPORT CONTROLS

Pa1X is equipped with two sequencers (Sequencer 1 and Sequencer 2), each with its own set of transport controls. The Sequencer 1 group is also used for the Sequencer mode.

<< and >> Rewind and Fast Forward commands. If you use them while the Song is in play, they make it scroll back or forward.

> When pressed once, these buttons move the Song to the previous or following measure. When kept pressed, they make the Song scrolling continuously, until you release them.

> **SHIFT** In Jukebox mode (Sequencer 1), keep the SHIFT button pressed, and press these buttons to scroll to the previous or next Song in the Jukebox list (see "Jukebox Editor" on page 147).

When playing back CD tracks, keep the SHIFT button pressed, and press these buttons to scroll to the previous or next track.

- PAUSE Pauses the Song at the current position. Press PAUSE or PLAY/STOP to start the Song playing again.
- **PLAY/STOP** Starts or stops the current Song. When you stop the Song, the Song Position goes back to measure 1 (i.e., the beginning of the Song).

SHIFT In Song Play mode, pressed while keeping SHIFT pressed, starts both sequencers at the same time.

BALANCE slider

In Song Play mode, this slider balances the volume of the two on-board sequencers. When fully on the left, only the Sequencer 1 can be heard. When fully on the right, only the Sequencer 2 can be heard. When in the middle, both sequencers play at full volume.

③ SEQUENCER 2 TRANSPORT CONTROLS

Transport controls for Sequencer 2. See instructions for Sequencer 1 above.

③ TEMPO/VALUE section

► PERF ► PERF^{Sty} ► SB

The DIAL and the DOWN/- and UP/+ buttons can be used to control the Tempo, assign a different value to the selected parameter in the display, or scroll a list of files in the Song Select and Disk pages.

DIAL Turn the dial clockwise to increase the value or tempo. Turn it counter-clockwise to decrease the value or tempo.

SHIFT When used while pressing the SHIFT button, this control always acts as a Tempo control.

DOWN/- and UP/+

DOWN/- decreases the value or tempo; UP/+ increases the value or tempo.

Press both buttons together to reset the Tempo to the value memorized in the selected Style.

AUDIO IN LED

This LED shows the level of the audio signal entering the INPUT connectors. Three different colors show the level.

- OFF No signal entering.
- Green Low- to mid-level signal entering. If the LED turns off too often, the input gain is too low. Use the GAIN controls and/or the source device's volume to raise the input level.
- Orange Optimum level. Try to keep the gain at this level.
- Red Clipping is occurring at the input stage. This is fine if the LED goes to red only occasionally during a signal peak. If it turns red too often, the input level is too high, and you should reduce it by using the GAIN controls and/or the source device's volume control.

See page 14 for more information on the INPUTs and volume control.

S EXIT

Use this button to perform various actions, leaving from the current status:

- exit the edit menu page, without selecting any item
- make the page menu disappear, without selecting any item
- return to the main page of the current operating mode
- exit the Global or Disk edit environment, and return to the current page of the current operating mode
- exit from a Style, Performance or Sound Select window

MENU

This button opens the edit menu page for the current operating mode or edit mode. After opening an edit menu, you can jump to one of the edit sections by touching the corresponding button in the display.

Otherwise, press EXIT to return to the main page of the current operating mode, or the current page of the underlying operating mode.

See the relevant chapter devoted to each operating mode or edit environment, to see their "maps" in detail.

TEMPO LOCK

This button turns the Tempo Lock function on or off.

ON When you select a different Style or Performance, the tempo does not change. You can still manually change it, by using the DIAL. OFF When you select a different Style or Performance, the memorized tempo is automatically selected.

OISPLAY HOLD

This button turns the Display Hold function on or off.

ON When you open a temporary windows (like the Sound Select window), it remains in the display until you press EXIT or an operating mode button.

OFF Any temporary window closes after a certain time, or after selecting an item in the window.

SONGBOOK

Press this button to recall the SongBook mode. While in this mode, you can browse through the music database.

BINSEMBLE ► PERF ► STS ► STS^{SB}

This button turns the Ensemble function on or off. When on, the right-hand melody is harmonized with the left-hand chords.

Note: The Ensemble function works only when the keyboard is in SPLIT mode, and the LOWER Chord Scanning mode selected.

CHORD SCANNING section

In Style Play and Sequencer-Backing Sequence mode, use these buttons to define the way chords are recognized by the arranger.

- LOWER Chords are detected below the split point. The number of notes you should play to form a chord is defined by the Chord Scanning Mode parameter (see "Chord Recognition Mode" on page 93).
- UPPER Chords are detected above the split point. You must always play three or more notes to let the arranger recognize a chord.

FULL (both LEDs on)

- Chords are detected on the full keyboard range. You must always play three or more notes to let the arranger recognize a chord. (You can use this mode even when the Split Keyboard Mode is selected).
- OFF No chords detected. After pressing START/STOP, only the Drum and Percussion accompaniment tracks can play.

KEYBOARD MODE section

▶PERF ▶STS ▶STS^{SB}

▶PERF ▶STS ▶STS^{SB}

These buttons define how the four Keyboard tracks are positioned on the keyboard.

- SPLIT The Lower track plays below the split point, while the Upper 1, Upper 2 and Upper 3 tracks play above it. By default, selecting this keyboard mode automatically selects the Lower chord scanning mode (see "Chord Recognition Mode" on page 93).
- FULL UPPER

The Upper 1, Upper 2 and/or Upper 3 tracks play on the whole keyboard range. The Lower track does not play. By default, selecting this keyboard mode automatically selects the Full chord scanning mode (see "Chord Recognition Mode" on page 93).

4 STYLE CHANGE

This button turns the Style Change function on or off.

- ON When you select a Performance, the Style could change, according to which Style number is memorized onto the Performance.
- OFF When you select a Performance, the Style and Style track settings remain unchanged. Only Keyboard track settings are changed.

PERFORMANCE SELECT 42

Press this button to use the SOUND/PERFORMANCE SELECT section to select a Performance.

SOUND SELECT

Press this button to use the SOUND/PERFORMANCE SELECT section to select a Sound, and assign it to the selected track.

SOUND/PERFORMANCE SELECT section

▶PERF ▶STS ▶PERF^{Sty} ▶STS^{SB} ▶SB

Use these buttons to open the Sound Select or Performance Select window, and select a Sound or a Performance. See "Sound Select window" on page 72, or "Performance Select window" on page 72. For a list of available Sounds, see "Sounds" on page 285.

The leftmost button selects the upper or lower row of Sound or Performance banks. Press it repeatedly to select one of the rows.

UPPER LED ON

Upper row of Sounds or Performances selected.

- LOWER LED ON Lower row of Sounds or Performances selected.
- BOTH LEDs ON

Additional EXB card's Sounds or Performances selected.

On the front panel, Sound banks are identified by the instrument names, while Performance banks are identified by numbers (1-10: 0=bank 10).

A note about Sound banks and names. Sounds from "PIANO" to "SFX" are standard Sounds, the user can't directly modify.

Sounds "USER1" and "USER2" are locations where you can load new Sounds from disk.

"USER DK" is where you can load new Drum Kits.

Each Sound bank contains various pages, each with up to eight Sounds. Repeatedly press a bank button to cycle between the available pages.

ASSIGNABLE SWITCH (1-4) ▶PERF ▶STS ▶STS^{SB}

You can assign any function to these switches. See "Pad/Switch: Assignable Switch" on page 92 for more information.

40 PAD (1-4, STOP)

▶PERF ▶STS ▶STS^{SB}

Each Pad corresponds to a dedicated Pad track. Use these buttons to trigger up to four sounds or sequences at the same time.

- Press a single PAD button to trigger a single sound or sequence.
- Press more PAD buttons to trigger several sounds or sequences.

The sequences will play up to the end. Then, they will stop or continue repeating, depending on their "One Shot/Loop" status (see "Pad Type" on page 130).

You can stop all sequences, or just some of them, by pressing the STOP button of the PAD section:

- Press STOP to stop all sequences at once.
- Keep STOP pressed and press one (or more) of the PAD • buttons to stop the corresponding sequence(s).

Note: Pads share polyphony voices with the other tracks, so avoid using too many of them together with a dense Style or Song arrangement.

About Pad synchronization. In Style Play mode, Pads are sync'd to the Style's tempo. In Song Play mode, they are sync'd to the last Sequencer you set to play. For example, assume you pressed SEQ2-PLAY; when pressing one of the PAD buttons, it will play in sync with Sequencer 2.

Note: There is no synchronization with MP3 files and Audio CD Tracks. Pads can only be synchronized to Standard MIDI Files. Therefore, when an MP3 file or Audio CD Track is assigned to the last select Sequencer, Pads will synchronize to the last Standard MIDI File that has been played back.

About Pads' and the Sequencers' Play command. When you press one of the PLAY buttons to start the corresponding Sequencer, all Pads will stop playing.

47 TRANSPOSE

▶PERF ▶PERF^{Sty} ▶SB

These buttons transpose the whole instrument in semitone steps (Master Transpose). The transposition value is usually shown on the page header in the display.

> T:0 <no chord> STYLE PLAY

Press both buttons together, to reset the Master Transpose to zero.

Note: The Master Transpose has no effect on tracks set to Drum mode (and, even if set in a different status, on the Drum and Percussion tracks). See "Track Controls: Mode" on page 86, and "Track Controls: Mode" on page 146.

Raises the Master Transpose a semitone.

OCTAVE

b

#

_

▶PERF ▶STS ▶STS^{SB}

These buttons transpose the selected track in steps of a whole octave (12 semitones; max ± 2 octaves). The octave transposition value is always shown (in octaves) next to a track's name.



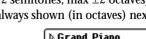
Press both buttons together, to reset the Octave Transpose to zero.

Note: The Octave Transpose has no effect on tracks set to Drum mode (and, even if set in a different status, on the Drum and Percussion tracks).

Lowers the selected track an octave.

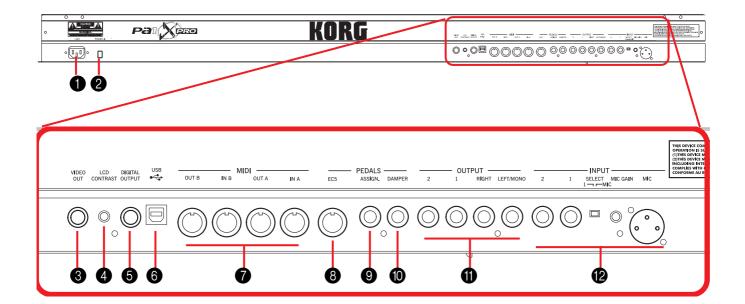
Raises the selected track an octave. +

Lowers the Master Transpose a semitone.

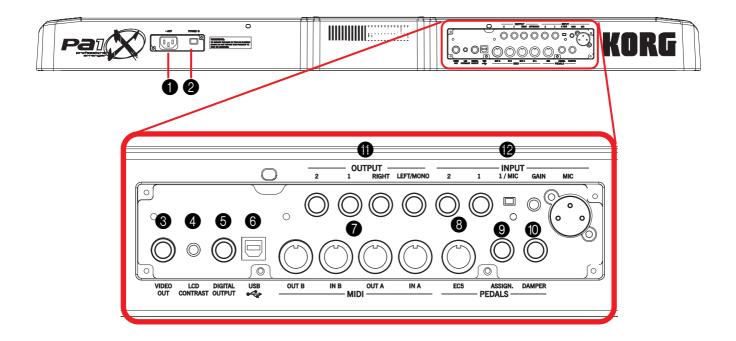


Rear panel









• AC CABLE CONNECTOR

Plug the supplied AC cable into this connector.

2 POWER switch

Use this switch to turn the instrument on or off.

S VIDEO OUT (optional)

If an optional VIF3 video interface is fitted, you can connect the Pa1X to a TV or video monitor. The RCA connector is already included with the instrument, even if the video interface is not installed. See "Installing the Video Interface (VIF3)" on page 395 for more information.

4 LCD CONTRAST

Use this knob to adjust the display contrast.

5 DIGITAL OUTPUT

Use this output to connect the Pa1X to the S/PDIF input connector of another digital device, like a digital mixer, audio card, DAT or stand-alone CD recorder. The same signal output from the LEFT/MONO & RIGHT connectors is sent by this connector. See "S/PDIF On/Off" on page 235 for more information.

6 USB

This is a USB Type B (slave) connector. Use it to connect the Pa1X to a personal computer, and transfer data to/from its hard disk. See "Hard Disk USB Connection" on page 266 for more information.

MIDI INTERFACE

The MIDI interface allows your Pa1X to be connected to external controllers (master keyboard, MIDI guitar, wind controller, MIDI accordion...), to a series of expanders, or to a computer running a sequencer or an editor. Two sets of IN and OUT connectors are provided. For more information on how to use the MIDI interface, see the "MIDI" chapter.

- IN A/B These connectors receive MIDI data from a computer or a controller. Connect them to an external controller's or computer's MIDI OUT.
- OUT A/B These connectors usually work as MIDI OUTs, but can be configured as MIDI THRU connectors. See "MIDI A Out/Thru Mode" and "MIDI B Out/Thru Mode" on page 231 for information on how to change their settings.

When set to OUT, these connectors send MIDI data generated by Pa1X's keyboard, controllers, and/or the internal sequencer. Connect them to an expander's or computer's MIDI IN.

When set to THRU, these connectors send an exact copy of the data received on the IN connector of the same group (A or B). Use them to cascade the Pa1X with other MIDI instruments.

8 EC5 MULTISWITCH

This connects to a Korg EC5 multiswitch, to control many functions in realtime. To program the EC5, see "EC5-A...E" on page 230.

9 ASSIGN. PEDAL

Use this port to connect a continuous- or footswitch-type pedal, like the Korg EXP2 or XVP10. To program it, see "Pedal/Foot-switch" on page 229.

DAMPER PEDAL

Use this to connect a Damper pedal, like the Korg PS1, PS or DS1H. To change its polarity, see "Damper Polarity" on page 229.

OUTPUT

Use these unbalanced connectors to send the audio signal (sound) to a mixer, a PA system, a set of powered monitors, or your hi-fi system.

To set the output for each track, or the routing for the audio inputs, see the "Audio Output" section, starting from page 233.

LEFT/MONO, RIGHT

These are the main stereo outputs. Use them to send the final stereo mix to an external device. Set the output level with the MASTER VOLUME slider.

These are the sub outputs. Use them to create a stereo sub-mix of just some tracks, or to output just a single instrument to be mixed alone, or to be processed or amplified externally.

> **Note:** The MASTER VOLUME slider has no effect on these outputs. Signal is sent dry, with no effects applied.

INPUT

1.2

Use these connectors to input a dynamic microphone, another keyboard/synthesizer or a CD player.

- 1, 2 Only active when the 1/MIC switch is set to 1. Use these unbalanced connectors to connect a line-level input source, such as a CD player or a synthesizer.
- 1/MIC Use this switch to select the input. When "1" is selected, both line inputs 1 & 2 are active. When "MIC" is selected, only the microphone input is active. See "Audio Output: Audio In" on page 234 for more information.
- GAIN Use this controls to adjust the input sensitivity of the MIC connector (from 20 to 55dB).
- MIC Only active when the 1/MIC switch is set to MIC. Use this balanced connector to input a dynamic microphone. To connect a condenser microphone, you need an external phantom power supply (refer to your microphone user's manual). The input signal is sent to the Voice Processor.

Use the GAIN knob to adjust the input gain, and see the input level by watching at the AUDIO IN LED on the control panel.

Welcome!

Welcome to the world of Korg Pa1X and Korg Pa1X Pro Professional Arranger! Pa1X is the most powerful arranger available today, both for professional and home entertainment use.

Here are some of the features of your new instrument:

- RX Technology, the cutting edge engine that drives every aspect of the Pa1X from the synthesis to the display and how it all works together.
- Powerful HI (Hyper Integrated) Korg sound generation system, as seen in our best professional synthesizers.
- OPOS (Objective Portable Operating System) multitasking operating system, to let you load data while playing your instrument.
- Operating System updates, to load new features from disk. Don't let your instrument get old!
- Optional hardware expansions, to add a video out, more RAM, a CD Player/Writer, up to two sound ROMs, an hardware MP3 encoder/decoder, an internal hard disk (standard on the Pa1X Pro). Get more and more for the money!
- Solid State Disk (SSD), for any system update a smart way to replace the usual ROM memory.
- Direct Style access from floppy disk and hard disk.
- General MIDI Level 2 Sound-compatible.
- More than 870 Sounds, including more than 47 Drum Kits.
- Four multieffect processor for internal tracks, each with 89 effect types plus a Vocoder available for FX D).
- 320 Performance locations, and more than 1,800 preloaded Single Touch Settings (STS), for fast setting of keyboard sounds and effects.
- More than 450 preloaded Styles.
- Style Record and Edit
- XDS Double Sequencer with Crossfader.
- Full-featured 16-track sequencer
- Fully editable music database, for fast song retrieving, supplied by the SongBook
- Onboard sampling to create and edit new sounds and audio grooves
- Sophisticated Voice Processor, with effects and a 4-voice harmonizer, featuring voice technologies by TC-Helicon[™].
- High-quality microphone preamplifier, with 20 ~ 55dB of gain.
- High-quality input (ADC) and output (DAC) audio converters.
- Color TouchView[™] Graphical User Interface.
- Eight fully-programmable sliders, to be used also as organ drawbars
- *Pa1X only:* Digital bi-amplification with Auto Loudness and 4-way Bass Reflex system, for realistic sound reproduction.

Pa1X Pro only: Included hard disk, with preloaded Real Drums and Turkish/Arabic World sets.

Live Performing

Pa1X has been carefully designed to be used live. The "realtime" word has its full meaning in this instrument. **Performances** allow the instant selection of all the tracks on the keyboard and a suitable Style; STSs allow an instant selection of the keyboard tracks; **Styles** are the realtime backing companions for your real-time playing; the **SongBook** is the quick way to select a song from a sophisticated music database.

Useful links

Your preferred Korg dealer not only carries this keyboard, but also a whole bunch of hardware and software accessories. You should ask him for more Sounds, Styles, and other useful music materials.

Each Korg distributor can give you useful information. Just give them a call for additional services. In the English-speaking world, here are the relevant addresses:

USA	KORG USA, 316 South Service Road, Melville, New York, 11747, USA
	Tel:1-516-333-9100, Fax:1-516-333-9108
Canada	Jam Industries, 620 McCaffrey, St-Laurent, QC, Canada, H4T 1N1
	Tel. (514) 738-3000, Fax (514) 737-5069
UK	KORG UK Ltd, 9 Newmarket Court, Kingston, Milton Keynes, Buckinghamshire, MK10, 0AU
	Tel.: 01908 857100
	UK Technical Support Tel: 01908 857122, Fax: 01908 857199
	E-mail: info@korg.co.uk

Many Korg distributors also have their own web page on the internet, where you can find infos and software. Useful web pages in English are the following:

www.korg.com

www.korg.co.uk

www.jam-industries.com

A place to find operating system updates and various system files (for example, a full backup of the factory data) is at the following link:

www.korgpa.com

Other useful information can be found worldwide by accessing to other Korg web sites, like the following:

www.korg.co.jp

www.korgfr.net

www.korg.de

<u>www.korg.it</u>

www.letusa.es

What's in the box

After you buy your Pa1X, please check all the following items are included in the package. if some of them are missing, immediately contact your Korg dealer.

- Pa1X or Pa1X Pro
- Music stand
- Power cable
- Owner's Manual
- CD assembling kit, including screws
- *Pa1X only:* HD mounting kit, including two mounting brackets and eight M3x6 screws.

About this manual

This manual is divided in four sections:

- An **Introduction**, containing an overview of the instrument and of basic operations.
- A Quick Guide, containing a series of practical guides.
- A **Reference Guide**, with each page and parameter described in detail.
- An Appendix, with a list of data and useful information for the advanced user.

Within the manual, you will find the following abbreviations:

- ▶ PERF The parameter can be saved to a Performance by selecting the Write Performance command from the page menu.
- PERF^{Sty} The parameter can be saved to the current Style Performance by selecting the Write Style Performance command from the page menu.
- ▶ STS The parameter can be saved to one of the Single Touch Settings of the current Style, by selecting the Write STS command from the page menu.
- ▶ STS^{SB} The parameter can be saved to one of the Single Touch Settings of a SongBook entry, by checking the Write STS option in the Book Edit page of the SongBook mode.
- ▶GBL The parameter can be saved to the Global, by selecting one of the available Write Global commands from the page menu. Several Global areas are available, and a smaller symbol after the GBL abbreviation will appear for each relevant parameter. More information is given in each Reference chapter.

Making a backup copy of system files

A backup of all data is already supplied with the hard disk installed on the Pa1X Pro. In case you modify some data, you can make a new backup, to preserve your data from being accidentally lost.

If you own a standard Pa1X, not fitted with a hard disk right at the factory, we suggest you make a backup copy of all data, including Sounds, Performances and Styles, to a set of floppy disks, in case the internal data is changed.

To backup the Operating System, please see "Save OS to Floppy Disk" on page 264.

To backup the Factory Data (Styles, Programs...), see "Backup Resources" on page 264.

Loading the operating system

Your Pa1X can be constantly updated as new versions of the operating system are released by Korg. You can download the operating system from <u>www.korgpa.com</u>. Please, read the instructions supplied with the operating system on the site.

You can see which version of the operating systems is installed in your Pa1X by going to the "Utility" page of the Disk mode (see "OS Version Number" on page 265).

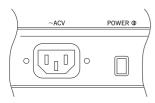
Reloading the Factory Data

Should you need the original Factory Data, a copy of them is already supplied with the hard disk (on the Pa1X Pro). On the Pa1X, you can create a set of backup disks (see "Backup Resources" on page 264).

To restore data, see "Restore Resources" on page 264.

Start up

Connecting the AC power cord



Connect the supplied power cord to the dedicated socket on the rear of the instrument. Then, plug it into a wall socket. You don't need to worry about the local voltage, since the Pa1X uses a universal power adapter.

Turning the instrument on and off

• Press the POWER switch on the rear panel to turn the instrument on. The display will light up, showing the boot procedure.

Note: When turning the instrument on, RAM PCM Samples used by some User Sounds may be automatically loaded, depending on the status of the "PCM Autoload" parameter (see page 265). This may take some time for loading.

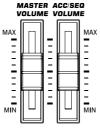
• Press again the POWER switch on the rear panel to turn the instrument off.

Warning: When turning the instrument off, all data contained in RAM (Song recorded or edited in Sequencer mode, Samples in edit and not yet saved) will be lost. MIDI Grooves generated by the Time Slice function will be lost, too.

On the contrary, data contained in the SSD memory (Factory data, User Sounds, Performances, Styles and Multisamples) will be preserved. Samples will be preserved, too.

Controlling the Volume (Master & Acc / Seq)

• Use the MASTER VOLUME slider to control the overall volume of the instrument. This slider controls the volume of the sound going to the internal speakers (Pa1X only), the main (LEFT/MONO & RIGHT) OUTPUTs, and the HEADPHONES connector.



The 1 & 2 OUTPUT connectors are

not affected by this slider. So, use the mixer's or speaker's level controls to adjust the volume.

Note: Begin with a moderate level, then raise the MASTER VOLUME up. Don't keep the volume at an uncomfortable level for too long.

• Use the ACC/SEQ VOLUME slider to control the volume of Style tracks (drums, percussions, bass...). This slider also

controls both Sequencers tracks, leaving Keyboard tracks untouched.

The BALANCE slider

The BALANCE slider sets the relative volume of the two onboard sequencers (Sequencer1 and Sequencer 2).

- Move it fully left to set Sequencer 1 to the maximum level and Sequencer 2 to zero.
- Move it fully right to set Sequencer 1 to zero and Sequencer 2 to the maximum level.
- Move it to the center to set both Sequencer at the same level.

Note: When turning the instrument on, move this slider to the center, to avoid starting a Song at the minimum level.

Headphones

Connect a pair of headphones to the HEADPHONES output, under the left part of the keyboard (just under the joystick). You can use headphones with an impedance of 16-200 Ω (50 Ω suggested). Use a headphone amplification distributor to connect more than one pair of headphones.

Audio Outputs

Audio outputs allows you to connect the Pa1X to an external amplification system. Apart for headphones, this is the only way to listen to the sound of the Pa1X Pro, since it is not fitted with internal speakers.

Stereo. Connect two mono cables to the main (LEFT/MONO, RIGHT) OUTPUTs. Connect the other end of the cables to a stereo channel of your mixer, two mono channels, two powered monitors, or the TAPE/AUX input of your audio system. Don't use the PHONO inputs of your audio system!

Mono. Connect a mono cable to the LEFT/MONO OUTPUT. Connect the other end of the cable to a mono channel of your mixer, a powered monitor, or a channel of your TAPE/AUX input of a hi-fi system (you will hear that channel only, unless you can set the amplifier to Mono mode).

Separate outputs. You can connect your Pa1X to four channels of a mixer. This is very useful when recording, or if you want to send a sequencer's or backing track to a separate channel. For example, by using the separate outputs, you may send the Drum or Bass track to an external compressor or reverb unit, or mix the separate tracks on an external mixer.

Connect four mono cables to each of the main (LEFT/MONO, RIGHT) and 1, 2 OUTPUTs. To feed the sub-outputs (1, 2) you

must program the track(s) you wish to send them (see the "Audio Output" section in the Global, starting from page 233).

Note: When a track is sent to the OUTPUT 1 or 2, it is removed from the main mix going to the internal speakers and the LEFT/ MONO & RIGHT OUTPUTS.

Note: OUTPUTs 1 & 2 are not effected.

Adjust the volume of the LEFT/MONO & RIGHT OUTPUTs with the MASTER VOLUME slider. Adjust the volume of the 1 & 2 OUTPUTs with the mixer's or external speaker's level controls.

Audio Inputs

Connect your microphone, guitar, or any other musical instrument, to the INPUTs on the back of the instrument. The microphone signal may also be sent to the Voice Processor for sophisticate processing.

Depending on the connected device(s), you must choose a suitable signal routing, by using the 1/MIC switch in the INPUT section. Select the "MIC" position to connect a microphone to the MIC input, or the "1" position to connect a mono or stereo linelevel source (like a synthesizer or an external CD player) to the 1 & 2 INPUTs.

See the "Singing with a connected microphone" chapter on page 62, and the "Audio Output: Audio In" section on page 234, for more information on connecting and setting the inputs and the audio source.

MIDI connections

You can play the internal sounds of your Pa1X with an external controller, i.e. a master keyboard, a MIDI guitar, a wind controller, a MIDI accordion, or a digital piano.

You can also control other MIDI devices with the Pa1X, or connect it to a computer for use with an external sequencer.

See the "MIDI" chapter for more information on MIDI connections.

Damper Pedal

Connect a Damper (Sustain) pedal to the DAMPER connector on the back panel. Use a Korg PS1, PS2 or DS1H footswitch pedal, or a compatible one. To switch the Damper polarity, see "Damper Polarity" on page 229

Demo

Listen to the built-in Demo Songs to appreciate the power of the Pa1X. There are several Demo Songs to choose from.

1. Press the STYLE PLAY and SONG PLAY buttons together. Their LEDs start blinking.

At this point, if you don't press any other button, all the Demo Songs will be played back.

- 2. Select one of the available options, to listen to a specified Demo Song.
- **3.** Stop the Demo by pressing the STOP button on the display, or by exiting the Demo mode by pressing any MODE button.

The music stand

A music stand comes standard with your Pa1X. Insert its legs into the two dedicated holes on the rear panel.

Introduction

Glossary of Terms

Before you begin, take a few moments to familiarize yourself with the names and terms we will be using to talk about the various elements of the Pa1X.

In this section, you will find a brief description of various key elements of the Pa1X. A professional arranger (Pa) keyboard uses different terminology than a traditional synthesizer or workstation. By familiarizing yourself with the names and functions in this section, you will get a better understanding of how all the different parts of the Pa1X work together to create a realistic musical performance. This will also help you to get the most out of the rest of the User's Manual.

Sound

A Sound is the most basic unit of an Arranger Keyboard performance. A Sound is basically a playable instrument timbre (piano, bass, sax, guitar...) that can be edited, saved, recalled and assigned to any track. An individual Sound can be played on the keyboard in the Sound mode. In the Style Play mode or Sequencer mode, Sounds may be freely assigned to Sequencer tracks, Style tracks, or Keyboard tracks.

Style

The Style is the heart of a professional arranger keyboard. At its basic level, a Style will consist of up to eight parts, or "Tracks".

Drums

The Drum track will provide a repeating rhythmic phrase, played by the standard instruments of a Drum Kit.

Percussion

An additional rhythmic phrase played by various percussion instruments (conga, shaker, cowbell, etc.) is provided by the Percussion track.

The Drum and Percussion tracks will play the same phrase repeatedly, regardless of the notes and chords being played on the keyboard, although it is possible to assign a different Drum Kit to either part, or to edit the Kit itself.

Bass & Accompaniment

The Bass track and the (up to) five additional Style tracks will each play musical phrases that are musically related to and in sync with the Drum and Percussion tracks. However, the notes being played by these tracks *will* change to follow the chord progression that you play on the keyboard.

Again, any Sound you choose may be assigned to any track in a Style.

Variation

For each Style, there are four Variations. In general, each Variation is a slightly different version of the others. As you progress from Variation one to Variation four, the arrangements will become more complex, and more parts (Tracks) may be added. This allows your performance to have a more dynamic arrangement, without losing the original "feel" of the Style.

Fill-in

During a performance, a drummer may often perform a "fill" such as when transitioning from a verse to a chorus – adding extra dynamics and keeping the beat from getting too repetitive. The Pa1X offers three Fill-ins specifically programmed for each Style. A Fill-in may be drums alone, drums with instrumentation, of even a silent "break".

Intro & Ending

Each Style also allows you to embellish your performance with a set of musical introductions and endings. A long and short version of the Intro and Ending are usually provided, with the former more harmonically elaborated, and the latter with a fixed chord. A "count-in" style Intro is also provided.

Keyboard tracks

In addition to the Style tracks, up to four additional parts can be played on the keyboard in real-time. Each of these Keyboard tracks can be limited to a particular range of keys or velocities, but in general three can be assigned to play above the split point (Upper), and one below (Lower). This allows the Upper Sounds to be layered together. The split point can be set to any note on the keyboard. In addition to performing along with a Style, these same Keyboard tracks will allow you to play along with the Sequencer.

STS (Single Touch Settings)

Single Touch Settings allow you to instantly change the sounds assigned to each of the Keyboard tracks with a single button press, allowing for wide variation in sounds during a performance. Four STS (Single Touch Settings) can be saved with each Style or SongBook entry.

Ensemble

By turning the Ensemble feature on, a single note played on one of the Keyboard tracks will be embellished by additional notes to create a complete chord voicing. The Ensemble knows which notes to add by looking at the chord that the Style is playing. In addition, the Ensemble parameters allow you to select the type of voicing that will be added – from a simple one-note harmony to a full "Brass" section – even a marimba-style trill!

Performance

The Performance is the most encompassing setting on the Pa1X – a single setting that can remember a Style (with all the appropriate sounds), the Keyboard tracks (with all the appropriate sounds) and all their Single Touch Settings, Tempo, transposition, etc... A Performance can be stored in one of the Performance Banks, or it can be saved in a "database" format using the SongBook function.

Sequencer

The Sequencer acts as a recorder, so you can capture and playback your performances. The Pa1X sequencer can function in different modes. In the Backing Sequence mode, each Style element and each Real-Time (Keyboard and Pads) element can be recorded on a separate track in a single pass. This can be a big help in getting a song recorded quickly. The sequencer can also behave as a traditional 16-track linear sequencer, where each track is recorded individually one at a time.

The LOGO decoder

On the front panel of your Pa1X you have probably noticed seven logos, and may have even wondered what they stand for. Well, here is a quick explanation of each one.



The SongBook provides a database that allows you to instantly recall all the settings (Style, Performance, Sounds, Tempo, etc...) required to perform a particular song. The SongBook comes with a number of entries,

but you are free to edit and remove any entry, as well as add any of your own. The main advantage of the SongBook is that it allows you to search for a song using title, composer, musical genre, etc...



RX Technology is the cutting edge engine that drives every aspect of the Pa1X – from the synthesis to the display and how it all works together.

A variety of professional vocal effects are provided by the Pa1X – including reverb,

delay, compression, and even four-part vocal harmonies! Pitch correction and vocal modeling are available as optional upgrades. All of the vocal effects are provided by TC Helicon, the leader in vocal processing technology.



The Solid State Disk (SSD) is protected digital memory that keeps the operating system and all the Pa1X resources (Sounds, Styles, Performances, etc...) intact when the power is off. The SSD also allows for easy updating of the operating system via the floppy drive.



X-fade Dual Sequencer. That's right! The Pa1X actually features TWO sequencers. A DJ-style Cross-fader (X-fader) allows you

to perform seamless transitions from one song to another, or to pause one song, switch to another, and then come back and finish the original. Mighty nice for live performances!



Object Portable Operating System allows the Pa1X to perform multi-tasking capabilities, such as loading a file from floppy into one of the sequencers as the other sequencer continues to play.



General MIDI (GM) is a standard that ensures the compatibility of sounds and messages between GM compatible instruments available from different manufacturers. For example,

sequenced songs created on any GM equipped product and saved in the GM format will playback correctly on the Pa1X.

Interface basics

The Color TouchView™ graphical user interface

Pa1X features an easy-to-use graphical user interface, based on Korg's patented Color TouchViewTM interface. Here are the basic elements of the user's interface.

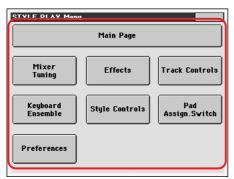
Pages

Parameters are grouped into separate pages, to be selected by touching the corresponding tabs on the lower part of the display.



Menus and sections

Pages are grouped in sections, to be selected by touching the corresponding buttons in the Edit menu that opens up when you press the MENU button.



Overlapping windows

When you press a Sound, Style, or Song name, a selecting window overlaps the current page. After you select an item in the window, or press the EXIT button, the window closes, and the underlying page is shown again.

SOUND SELECT: Grand Piano Trk: Upper 1 Bank 1/10 Bank 11/17 User			
Piano E.Piano	Grand Piano	Ac. Piano	Digi Organ Guitar
Mallet & Bell Accor-	Class.Piano	BrightPiano	Strings & Vocal Trumpet
dion Organ	L/R Piano	ElGranPiano	& Trbn. Brass
	AcPianoWide	ElGrandWide	
	P1 P2 P3	P4 • •	

Dialog boxes

Similar to selecting windows, dialog boxes overlap the underlaying page. Press one of the button on the display to give Pa1X an answer, and the dialog box will close.

Are you	sure?
No	Yes

Page menus

Press the icon on the upper right corner of each page, and a menu with suitable commands for the current page will appear. Touch one of the available commands to select it. (Or, press anywhere else on the screen to make it disappear, with no command selected).

Pop-up menus

When an arrow appears next to a parameter name, press it to open a pop-up menu. Select any of the available options (or anywhere else on the screen to make the menu disappear).



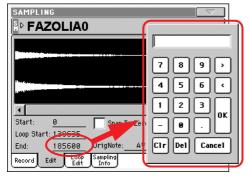
Checkboxes

This kind of parameters are on/off switches. Press them to change their status.



Numeric fields

When a numeric value is underlined, press it a second time to open the Numeric Keypad.

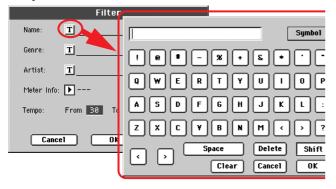


Alphabetic fields

When a textual option is underlined, press it a second time to open a list of options.

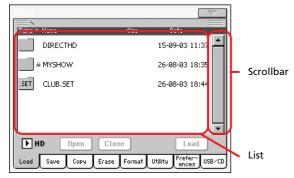
Editable names

When the **T** (Text Edit) button appears next to a name, press it to open the Text Edit window and edit the name.



Lists and scrollbars

Files on disk, as well as other kinds of data, are shown as lists. Use the scrollbar to scroll the list content.



lcons

Various icons help identifying the type of a file, a Song, a folder.

Operative modes

Pa1X pages are divided into various operating modes. Each mode is accessed by pressing the corresponding button in the MODE section on the control panel.

Each operating mode is marked with a different *color code*, that helps you understand at first sight where you are.

Three special modes (Global, Disk, and SongBook) overlap the current operating mode, that remains active in the background. The SongBook mode can recall the Style Play or Song Play modes.

Selected, highlighted items

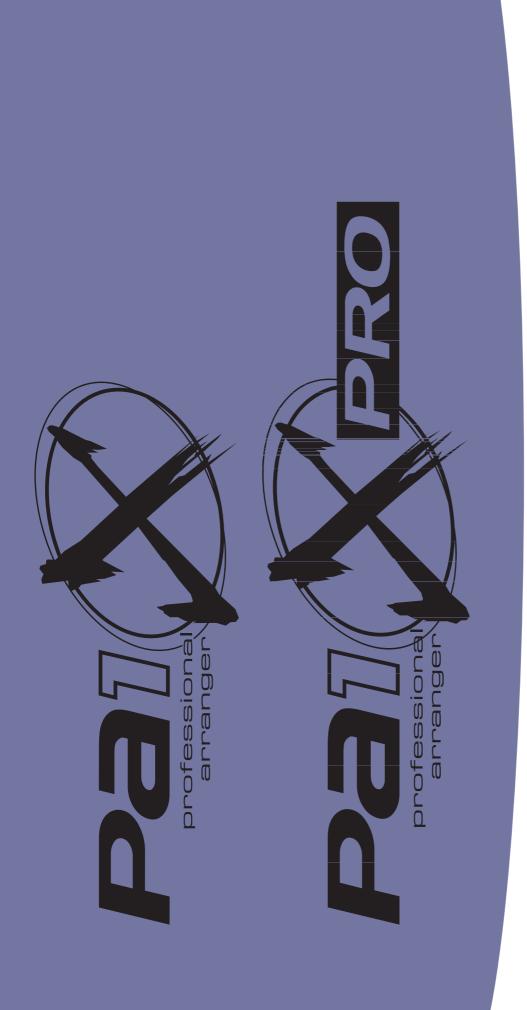
Any operation carried on on parameters, data or list entries, is executed on highlighted items. First select the parameter or item, then execute the operation.



Non-available, grayed-out parameters

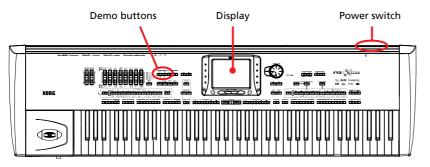
When a parameter or command is not currently available, it is shown in grey on the display. This means it cannot be selected, but may become available when a different option is selected, or you switch to a different page.





Turning the instrument on and listening to the demos

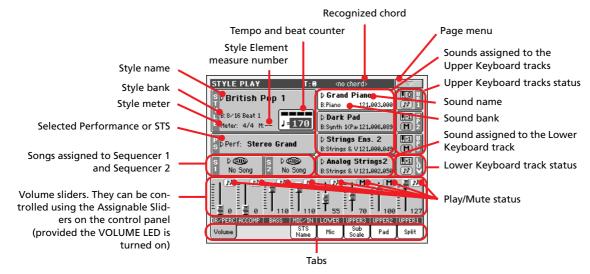
First of all, turn the instrument on and familiarize yourself with the main screen. You can also listen to the demos.



Turning the instrument on, and viewing the main screen

Turn the Pa1X on by pressing the POWER button, located on the back panel.

After you turn the POWER on, a welcome screen is shown for a few seconds, and then the main display appears.



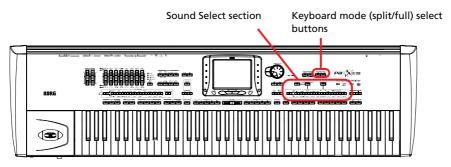
Playing the demos

A variety of demo songs have been included to demonstrate the sonic power of the Pa1X.

- 1 To open the Demo page, press the STYLE PLAY and SONG PLAY buttons at the same time.
- 2 Follow the instructions in the display. That's it!

Playing Sounds

You can play up to three sounds at the same time on the keyboard. You can also split the keyboard into two parts, to play up to three sounds with your right hand (Upper), and one with your left hand (Lower).



Selecting a Sound and playing it on the keyboard

1 Be sure the Upper 1 track is selected and set to play.

STYLE PLAY T:0	<no chord=""></no>		
S⊳British Pop 1	♦ Grand Piano B:Piano 121.003.000		
B:8/16 Beat 1 Meter: 4/4 M: J=170	▷ Dark Pad B:Synth 1(Pa: 121.006.089)		
Ps⊳Perf: Stereo Grand	▷ Strings Ens. 2 B:Strings & V121.000.049		
s ▷ 40000 s ▷ 46000 1 No Song 2 No Song	▷ Analog Strings2 B:Strings & V121.002.050		
DR/PERC ACCOMP BASS MIC/IN Volume Name	LOWER UPPER3 UPPER2 Mic Sub Pad	UPPER1 Split	

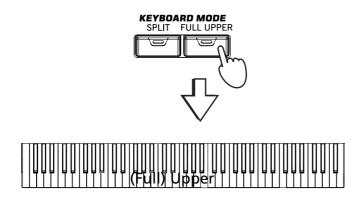
A selected track is shown with a white background. In this example, the Upper 1 track is selected. If it is not selected, press it once to select it.

> The status icon shows that the Upper 1 track is set to play. If it is muted, press the status icon to set it to play.

2 If you want to play the Sound on the whole keyboard, be sure the keyboard is in Full Upper mode. If it is split in two parts, press the FULL UPPER button in the KEYBOARD MODE section on the control panel.

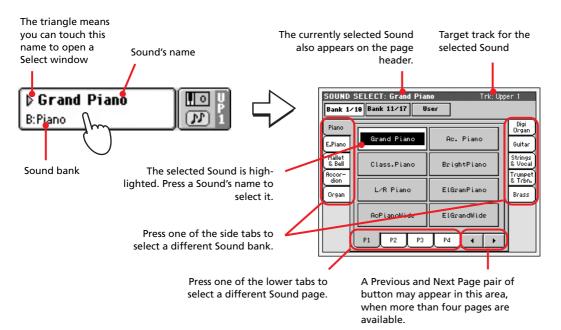
0

M.

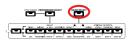


• Note: Be sure tracks Upper 2 and Upper 3 are muted, and are not playing. If you hear more than one sound, see page 27 for how to mute tracks.

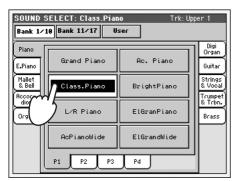
3 Press the Upper 1 track's area in the display, to open the Sound Select window.



• Note: You can also open the Sound Select window by pressing one of the buttons in the PERFORMANCE/SOUND SELECT section – provided the LED on the SOUND SELECT button is on. This will let you jump directly to the desired Sound bank.



4 Select a Sound from the Sound Select window.





The Sound Select window closes, and the main screen appears again, with the selected Sound assigned to the Upper 1 track.

STYLE PLAY T:	9 koo charda
S⊳British Pop 1	▶ Class.Piano B:Piano 121.004.000
B:8/16 Beat 1 Meter: 4/4 M:	D Dark Pad
S Perf: Stereo Grand	▷ Strings Ens. 2 B:Strings & V121.000.049
● 00000 s 0 0000 ● No Song 2 No Song	▷ Analog Strings2 B:Strings & V121.002.050
DR/PERC ACCOMP BASS MIC/IN Volume STS Name	I LOWER UPPER3 UPPER2 UPPER1 Mic Sub Pad Split

5 Play the Sound on the keyboard.



1 Note: You can leave the Sound Select

window open in the display, even after selecting a Sound. Just press the DISPLAY HOLD button to turn its LED on.

Playing two or three Sounds at the same time

Þ Dark Pad	M
B:Synth 1	M
▷ StringsEns2 B:Strings & Vocal	

You can layer all three Upper tracks and play them on the keyboard.

Please note how the 'M' (Mute) icon appears in the Upper 2 and Upper 3 status boxes. These tracks will not be heard.

1 Press the **M** (Mute) icon in the Upper 2 status box, to set the Upper 2 track to play.

▶ Grand Piano B:Piano		⊳Grand Piano B:Piano	1 1
▷ Dark Pad B:Synth 1	\Rightarrow	⊅ Dark Pad B:Synth 1	
▶ StringsEns2 B:Strings & Vocal		▷ StringsEns2 B:Strings & Vocal	H H S

2 Play the keyboard.



Note how the 'Dark Pad' sound (assigned to the Upper 2 track) has been layered with the 'Grand Piano' (assigned to the Upper 1 track).

3 Press the M (Mute) icon in the Upper 3 status box, to set the Upper 3 track to play.

⊳Grand Piano B:Piano	
Þ Dark Pad B:Synth 1	
▷ StringsEns2 B:Strings & Vocal	

⊳Grand Piano B:Piano	
Þ Dark Pad B:Synth 1	
▶ StringsEns2 B:Strings & Vocal	

4 Play the keyboard.



Note how the 'StringEns2' sound (assigned to the Upper 3 track) has been added to the 'Dark Pad' (assigned to the Upper 2 track) and the 'Grand Piano' (assigned to the Upper 1 track). 5 Press the []] (Play) icon in the Upper 3 status box, to mute the Upper 3 track again.

▶ Grand Piano B:Piano		▶ Grand Piano B:Piano
▷ Dark Pad B:Synth 1	M-1 U M 2	▷ Dark Pad B:Synth 1
StringsEns2 B:Strings & Vocal		StringsEns2 B:Strings & Vocal

	▶ Grand Piano B:Piano	1 10
	▷ Dark Pad B:Synth 1	P P P 2
•	▷ StringsEns2 B:Strings & Vocal	

6 Play the keyboard.



Note how the 'StringEns2' sound (assigned to the Upper 3 track) has been muted again. Only tracks Upper 1 and Upper 2 can be heard at this time.

7 Press the []] (Play) icon in the Upper 2 status box, to mute the Upper 2 track again.



♦ Grand Piano) io i
B:Piano	
▷Dark Pad	
B:Synth 1	
▷ StringsEns2	III !
B:Strings & Vocal	

8 Play the keyboard.

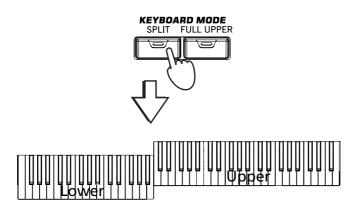


Note how the 'Dark Pad' sound (assigned to the Upper 2 track) has been muted again. Only track Upper 1 can be heard at this time.

Playing different Sounds with your left and your right hand

You can play a single Sound with your left hand, in addition to playing up to three Sounds with your right hand.

1 Press the SPLIT button in the KEYBOARD MODE section on the control panel, to split the keyboard into Lower (left hand) and Upper (right hand) parts.

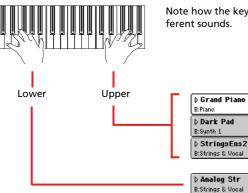


2 Be sure the Lower track is set to play.



If the Lower track is muted, press its icon status, and the play status icon will appear.

3 Play the keyboard.



Note how the keyboard is split into two parts, each playing different sounds.

0

 (\mathbf{N})

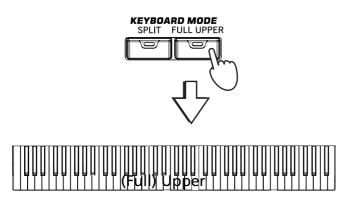
M

-1

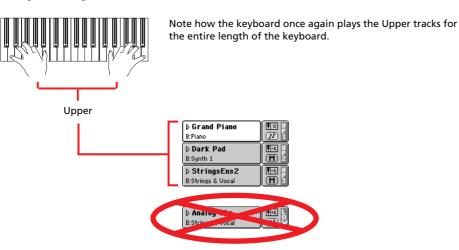
M

ы Ч П **Hint:** You can select a different Sound for the Lower part, by following the same procedure used for the Upper 1 track. See page 25.

4 Return to the full keyboard playing mode by pressing the FULL UPPER button in the KEYBOARD MODE section on the control panel.



5 Play the keyboard.



Changing the split point

If you are not comfortable with the selected split point, you may set the split point to any key.

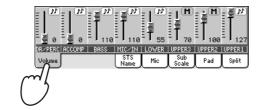
1 Press the Split tab to see the Split Point panel.



2 Touch the keyboard in the display, then play a note on the keyboard. Or, press the Split Point parameter to select it, and use the DIAL to select the new split point.



3 Press the Volume tab to go back to the Volume panel.



the

Note: the Octave

Transpose value for each

Upper track is shown in

0

17

track's status box.

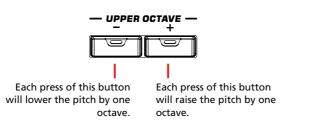
corresponding

Ouick Guide

Raising or lowering the Upper octave

If all Upper tracks sound too high or too low, you can quickly change which octave they are playing in.

1 Use the UPPER OCTAVE buttons on the control panel, to transpose all Upper tracks at the same time.



2 Press both UPPER OCTAVE buttons together to reset the octave.

Digital Drawbars

A special sound in the Pa1X is the "Digital Drawbars". This sound simulates the classic tonewheel organs of the past. You can use the Assignable Sliders of the Pa1X to adjust each drawbar, and then save these settings to a Performance (see "Saving your settings to a Performance" on page 35).

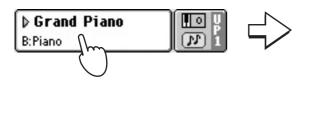
1 Mute all Upper tracks, apart for the Upper 1 track. Select the Upper 1 track.

♦ Grand Piano	
B:Piano	
B:Synth 1	
▷ StringsEns2	
B:Strings & Vocal	M 3

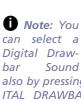
The Upper 1 track is set to play and selected.

Upper 2 and 3 tracks are muted (they cannot be heard).

2 Press the Sound name to open the Sound Select window.



	SELECT: Grand Pian 10 Bank 11/17 U:	no Trk: Up ser	
Piano E.Piano	Grand Piano	Ac. Piano	Digi Organ Guitar
Mallet & Bell Accor-	Class.Piano	BrightPiano	Strings & Vocal Trumpet
dion Organ	L∕R Piano	ElGranPiano	& Trbn. Brass
	AcPianoWide	ElGrandWide	
	P1 P2 P3	P4 4 >	

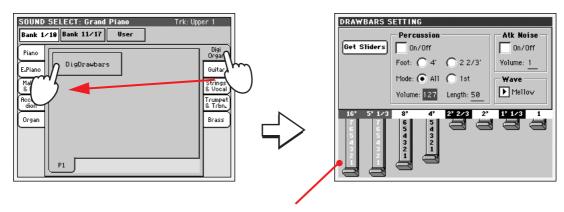




also by pressing the DIG-ITAL DRAWBAR button in the PERFORMANCE/ SOUND SELECT section.

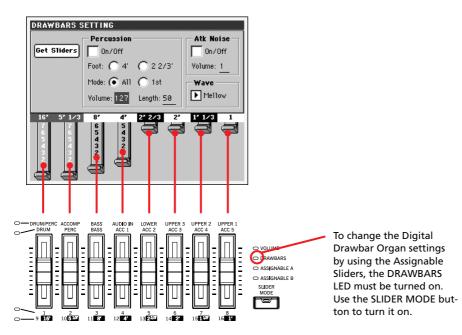
3 Select the Digi Organ bank, then choose the DigDrawbars Sound.

Due to the nature of these Sounds, there is only one Digital Drawbar Organ Sound. Different drawbar settings may be stored with each Performance. So, selecting a different Performance will select different settings for the Digital Drawbar Organ.



After you select the Digital Drawbar Organ Sound, the Drawbar Setting page appears.

4 As soon as the Drawbar Setting page appears in the display, the Assignable Sliders will function as organ drawbars (the slider's DRAWBAR LED will be lit). Move the Assignable Sliders to change the various drawbar settings.

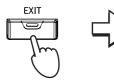


to be in the Digital Drawbars page to use the Assignable Sliders to change the sound. When a Drawbar Organ is assigned to a Keyboard track, the sound can be changed also while in the main page, provided that the DRAW-BARS LED is turned on.

Note: You don't need

- 5 Select different parameters in this page, and change their settings to see how each setting affects the sound.
- 6 When you have found some settings that you like, you can save them to a Performance, as described later in this section.

Hint: As an alternative to using Assignable Sliders to change drawbar values, you can touch a drawbar in the display, and use the TEMPOIVALUE controls to change it. 7 Press the EXIT button to go back to the main page.



STYLE PLAY T:	
S Funky Ballad	DigDrawbars B:DigiOrgan 121.127.016 ア 1
L B:User 1 E Meter: 4/4 M: J=68	D Dark Pad B:Synth 1 121.006.089
P _S ⊳Perf: StereoGrand	▷ StringsEns2 B:Strings & V 121.000.049
s 0 4000 s 0 4000 1 New Song 2 No Song	▷ Analog Strings2 B:Strings & V121.002.050
DR/PERC ACCOMP BASS MIC/IN Volume STS Name	LOWER UPPER3 UPPER2 UPPER1 Mic Sub Pad Split

Selecting and saving Performances

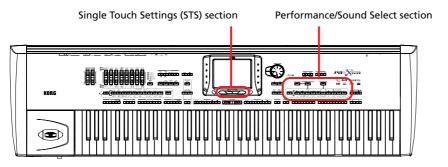
The Performance is the musical heart of the Pa1X. Unlike selecting single Sounds, selecting a Performance will recall several Sounds at the same time, the needed effects and transpositions, a suitable Voice Processor preset, plus many more parameters useful for playing in a musical situation.

You can save all control panel settings in a Performance (including your Digital Drawbar Organ settings). While many Performances are already supplied with the instrument, you can customize each of them to your own taste, and then save them in their customized form.

Similar to Performances, you can also save your settings to a **Single Touch Setting** (STS), which will store all the settings for the Keyboard tracks. Four STSs are supplied with each Style and SongBook entry, and can be selected with the four dedicated buttons under the display.

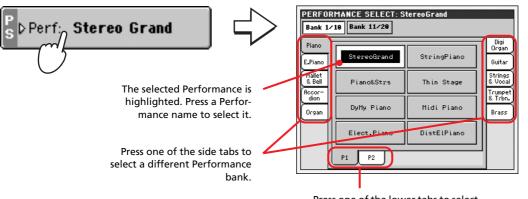
As far as Style tracks are concerned, you can save settings in a third object called the Style Performance.

Please note that settings saved in Performance 1 are automatically selected when the instrument is turned on. This means you can save your preferred startup settings to Performance 1.



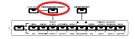
Selecting a Performance

1 Press the Performance area in the display, to open the Performance Select window.

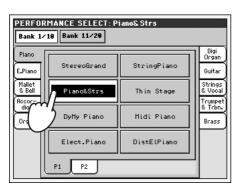


Press one of the lower tabs to select a different Performance page.

• Note: You can open the Performance Select window also by pressing one of the buttons in the PERFORMANCE/SOUND SELECT section – provided the LED on the PERFORMANCE SELECT button is on. This will let you jump directly to the desired Performance bank.



2 Select one of the Performances in the Performance Select window.





The Performance Select window closes, and the main screen appears again (provided the DISPLAY HOLD LED is turned off). Sounds, effects, and other settings, change according to the setting memorized in the selected Performance.

STYLE PLAY T:0	<no chord=""></no>	\sim			
S ⊳ British Pop 1	♦ Grand Piano B:Piano 121.003.000				
B:8/16 Beat 1 E Meter: 4/4 M: J= 94	▷ Cassotto B:Accordion 121.009.021	1 1 2			
Ps⊳Perf: Piano & Strings	▷ St. Strings BStrings & V121.003.048	M M 3			
S ▷ 0000 S ▷ 0000 1 No Song 2 No Song	Analog Strings2 B:Strings & V121.002.050	₽ ₽			
$\begin{bmatrix} M & M & M & M & M & M & M & M & M & M $					
DR/PERC ACCOMP BASS MIC/IN Volume STS Name	LOWER UPPER3 UPPER2 Mic Sub Pad	UPPER1 Split			

3 Play the keyboard.



Settings memorized in the selected Performance have been selected. Sounds, effects and other settings have been recalled.

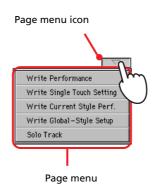


Quick Guide

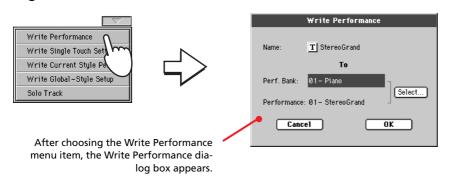
Saving your settings to a Performance

All the control panel settings, plus the Keyboard track settings, selected effects and Voice Processor Preset, can be saved to a single Performance, to be quickly recalled at a later time.

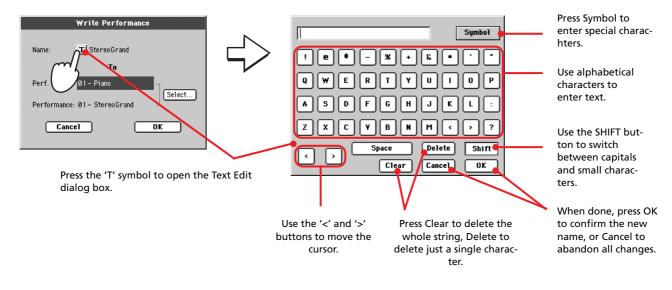
1 Press the page menu icon to open the page menu.



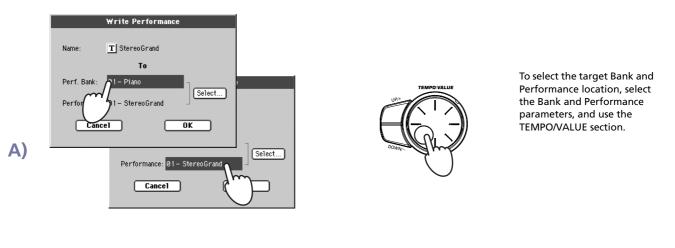
2 Select the 'Write Performance' command to open the Write Performance dialog box.



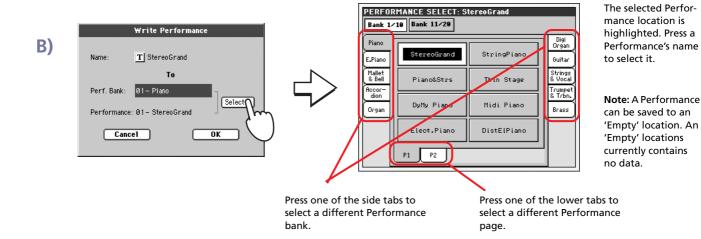
3 If you like, you may assign a new name to the Performance.



4 Select a Bank and Performance location in memory, where you would like to save the Performance.







5 When you have changed the name to the Performance, and selected the target location, press OK to save the Performance to memory (or cancel to stop the operation).

	Write Performance
Name:	T StereoGrand
	To
Perf. Bank:	01- Piano
Performance	e: 01- StereoGrand
Can	сет ОК О
	/m_
	\bigcirc

Warning: Saving a Performance to an already used location overwrites any existing data at that location.

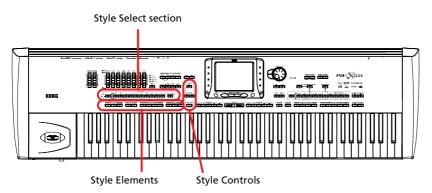
Selecting and playing Styles

Pa1X is an *arranger*, i.e. a musical instrument providing automatic accompaniments, or *arrangements*. Each arrangement style is called, as a consequence, "Style".

A Style is made of several Style Elements (Intro, Variation, Fill, Ending), corresponding to the various sections of a song. By selecting Style Elements, you can make your playing more varied and musical.

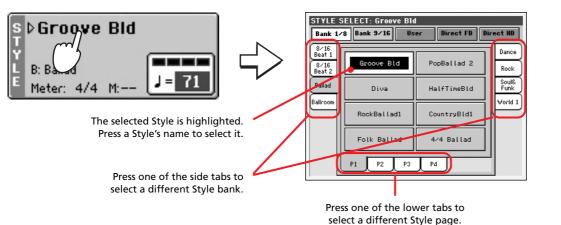
When selecting a Style, a Style Performance, with settings for the Style tracks, is also selected. If the SINGLE TOUCH LED is turned on, the first of the four Single Touch Settings (STS) associated with the Style is selected, too, and Keyboard tracks, pads, effects and some other useful parameters are automatically configured.

Use the Style controls to start or stop the Style.



Selecting and playing a Style

1 Press the Style area in the display. The Style Select window appears.



• Note: You can open the Style Select window also by pressing one of the buttons in the STYLE SELECT section. This will let you jump directly to the desired Style bank.



Note: You can leave the Style Select window open in the display, e selecting a St



window open in the display, even after selecting a Style. Just press the DISPLAY HOLD button to turn its LED on.

2 Select a Style from the Style Select window.



The Style Select window closes, and the main screen appears again, with the selected Style ready to go.

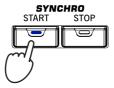
STYLE PLAY T:0) <no chord=""> 🛛 🔽</no>
s ⊳ Diva T	Tinklin Pad
B: Ballad E Meter: 1/1 M: J= 64	▷ NylonKeyOff B:Guitar
S⊳STS1:Guitar Synt	▶ Tinklin Pad B:Synth 1
s COOD I ⊳ No Song 2 ⊳ No Song	Þ i3 Strings B:Strings & Vocal →
DR/PERC ACCOMP BASS MIC/IN Volume Name	LOWER UPPER3 UPPER2 UPPER1 Mic Scale Pad Split

3 Be sure one of the Chord Scanning modes is selected.

CHORD SI LOWER	CANNING UPPER				
FULL					

For chord scanning to work, either of both LEDs must be turned on. Lower: chords are recognized on the left of the split point; Upper: chords are recognized on the right of the split point; Full: chords are recognized on the whole keyboard. Off: only the Drum track can be heard.

4 Press the SYNCHRO-START button to turn its LED on.



5 Play the keyboard.



When the Syncho-Start function is turned on, the Style starts playing as soon as you play a note or chord in the chord recognition area. Play chords with your left hand, and the melody with your right hand. The arranger will follow your playing.

6 Press START/STOP to stop the Style.

START / STOP

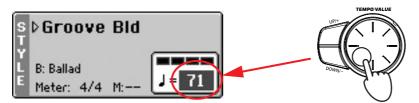


• Note: You could simply press START/STOP to start the Style, but the Synchro-Start function allows you to make the Style start in sync with your playing on the keyboard. Therefore, it may be considered a "more musical" way of starting a Style.

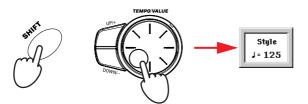
Tempo

While a Tempo setting is saved with each Style or Performance, you can change it to be whatever you like. You can use either of the following two methods.

• While the Tempo parameter is selected, use the TEMPO/VALUE controls to change its value.



• When the Tempo parameter is not selected, keep the SHIFT button pressed, and use the DIAL to change the Tempo. The selected tempo will be shown in a small window.

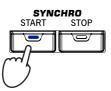


• Press the UP and DOWN buttons at the same time to recall the saved Tempo.

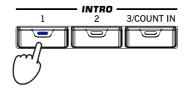
Intro, Fill, Variation, Ending

When playing Styles, you can select various "Style Elements" to make your playing richer. A Style is made of up to four basic patterns (Variations), three Intros (or two Intros and a Count-In), three Fills (or two Fills and a Break), and two Endings.

1 Make sure the SYNCHRO-START LED is turned on (otherwise, press the button to turn it on).



2 Press one of the INTRO buttons to set the corresponding Intro to play.

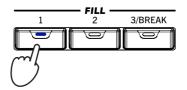


3 Play the keyboard.

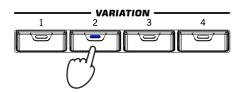


The Style starts with the selected Intro. When the Intro is completed, the basic pattern (selected Variation) starts to play.

4 While playing, press one of the FILL buttons to select a Fill.

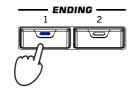


5 Before the Fill ends, press one of the VARIATION buttons, to select a different variation of the basic pattern.



When the Fill ends, the selected Variation will start playing.

6 When you like to stop playing, press one of the ENDING buttons to stop the Style with an Ending.



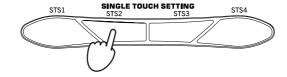
When the Ending is finished, the Style automatically stops.

Single Touch Settings (STS)

Each Style or SongBook entry may come with up to four Keyboard track settings, called STS (short for "Single Touch Settings"). STS #1 is automatically selected when choosing a Style, provided the SINGLE TOUCH LED is turned on. STS#1 is also recalled when a SongBook entry is selected.

STSs are still available when switching to Song Play mode from Style play mode, to let you select a different configuration of Keyboard tracks and a different Voice Processor Preset, while listening to the Songs.

1 Press one of the four STS buttons under the display.



2 Play the keyboard.



Settings memorized in the selected STS have been selected. Sounds, effects and other settings have been recalled.

Hint: You may see

Note: STSs are very

similar to Performances, but they are fine-tuned

to the Style they are

associated to.

3 Try all the other STSs, and see how settings change with each of them.

Hint: You may see the name of the four available STSs for the current Style, by pressing the STS Name tab.

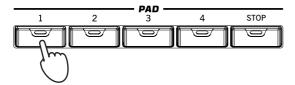
Note: You do not need to select a Fill before selecting a different Variation, but selecting a Fill makes the transition "smoother" and more musical.

Note: You do not need to select a Variation during a Fill, since a Variation may already be automatically recalled at the end of the Fill. See "Fill Mode (1...3)" on page 91.

The Pads

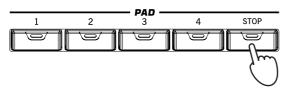
Each Performance and STS can assign different sounds or patterns to the four PADS. These sounds or patterns can be played along with the Keyboard and Style tracks.

1 Press one of the four PADS.



Hint: You can see which sounds or patterns are associated to the four Pads for the current Performance or STS, by pressing the Pad tab.

2 If the selected PAD triggers an endless sound or pattern (i.e. the Applause), pressing STOP will cancel that sound.



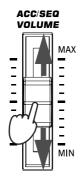
3 Select a different Performance, and see how the sounds or patterns assigned to the PADS change.

You can even press more Pads at once, and play two or more sounds or patterns at the same time. Pressing STOP stops them all at the same time. Keeping STOP pressed and pressing one of the PAD buttons only stops that sound or pattern.

Adjusting volume balance between the Style and the keyboard

Adjusting the volume of the Style tracks may be useful, to gently fade them while Keyboard tracks can still be played at the normal volume.

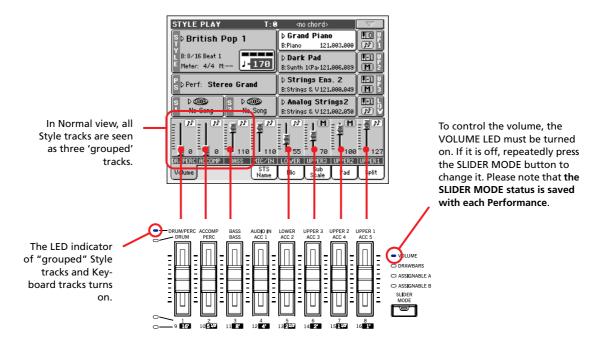
 While the Style is playing, use the ACC/SEQ VOLUME slider to adjust the Style volume. Keyboard track's volume does not change when moving the slider.



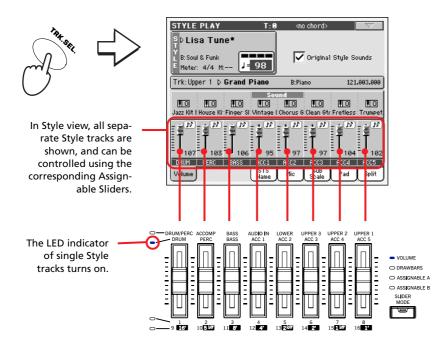
Adjusting volume of each single track

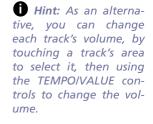
You can adjust the volume of each of the Style and Keyboard tracks, for example to soften the bass a little, or to make the keyboard solo louder.

1 Use the Assignable Sliders (be sure the VOLUME LED is turned on) to adjust each Keyboard track's volume, as well as 'grouped' Style tracks.



2 To separately adjust each Style track, press the TRK. SEL. (TRACK SELECT) button to change track's view.





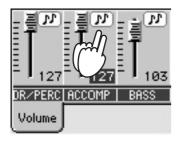
3 To return to Normal view, press the TRK. SEL. button again.

The LED on the TRK. SEL. button will turn off.

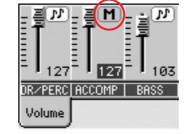
Turning Style tracks on/off

You may easily turn on or off any Style track while you are playing. For example, try muting all accompaniment tracks, while drum and bass continue to play.

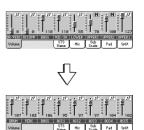
1 While the Style is playing, touch anywhere in the ACCOMP track's channel strip to select the track (volume value highlighted), then touch it again to set the track to Mute.



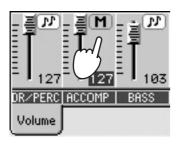
Mute the ACCOMP track. All accompaniment tracks will go silent (apart from Drum, Percussion and Bass).



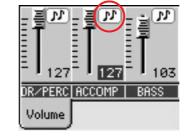
• Note: While in the Normal view of the Style Play mode, you can see Style tracks grouped in just three "complex" tracks. To see each Style track as individual tracks, just press the TRK. SEL. button.



2 To set tracks back to the Play status, press the Mute icon on the ACCOMP track.



Set the ACCOMP track to Play. All accompaniment tracks will return to their original volumes.



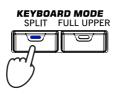
- 3 To mute/unmute each single Style track, press TRK. SEL. to switch to the Style Tracks view.
- 4 Press the TRK. SEL. button again to go back to the Normal view. The LED on the TRK. SEL. button will turn off.

Adding chords to your right-hand melody (ENSEMBLE function)

Chords played with your left hand may be applied to the right-hand melody.

1 Press the SPLIT button in the KEYBOARD MODE section to split the keybord.

The Ensemble function only works in Split mode.



2 Press the ENSEMBLE button to turn its LED on.



3 Play chords with the left hand and single notes in the right hand.



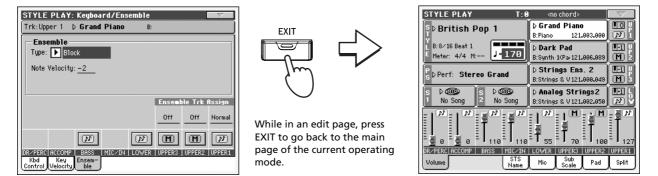
Notice how the right hand is automatically harmonized, according to the chords composed with your left hand.

4 To select a different harmonization style, keep the SHIFT button pressed, and press the ENSEMBLE button to open the Ensemble page.

This is a fast 'shortcut' to recall this page. The longer would have been entering the Edit mode by pressing the MENU button, then going to the Ensemble page.



5 When the right harmonization type has been selected, press the EXIT button to go back to the main page.



6 Press the ENSEMBLE button again to turn its LED off. The automatic harmonization will be turned off.

ENSEMBLE

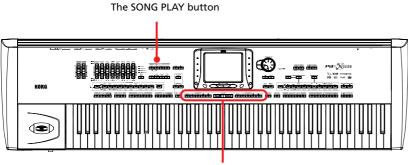


Song Play

Pa1X is equipped with two onboard sequencers that can be run at the same time to mix between different Songs. Songs are read directly from disk, so there is no need to load them to memory before playing them back.

Pa1X can read Songs of various kinds: Standard MIDI Files (SMF), KAR, MP3 and Audio CD (MP3 and Audio CD playback only available as options). Please remember that the Double Sequencer (XDS) function is not available with two MP3s or two CD tracks at the same time. You can, however, run a CD track on one sequencer, and an MP3 on the other one.

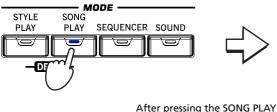
It may be of great interest to singers and guitar players to know that if a midifile contains lyrics and chords, they can be seen in the display. Lyrics can also be seen on an external video monitor, provided you have the (optional) Video Interface installed.



Sequencers controls

Selecting a Song to play

1 Press the SONG PLAY button to switch to the Song Play mode.



button, the main page of the Song Play mode appears.

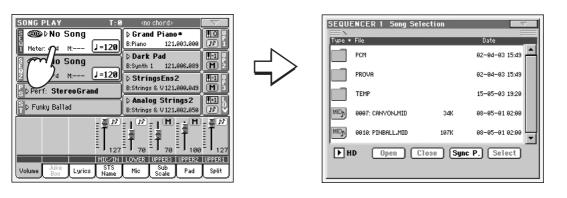
SONG PLAY	T:0	l <no< th=""><th>) chord></th><th></th><th>∇</th></no<>) chord>		∇
§ ‱⊳⊳No Song		⊳ Gran	d Piano	·*)	
0 1 Meter: 4/4 M:	J=120	B:Piano	121.	.003.000	M
§ @@⊳⊳No Song		Dark Pad B:Synth 1 121.006.089		.006.089	M
2 Meter: 4/4 M:	J=120	Þ Stri	ngsEns	2	
Perf: StereoGra	and	B:String	s & V 121.	.000.049	M
S ▼⊳ Funky Ballad	5			ngs2 .002 . 050	1 P
		」 が 1 70	^M 	 100	 12
	MICZIN	LOWER	UPPER3	UPPER2	UPPER1
Volume Juke Lyric:	STS	Mic	Sub	Pad	Split

• Hint: In Style Play mode, you can pre-select the Songs to be assigned to both sequencers. This way, you will be ready to start them, as soon as you switch to Song Play mode.



The Songs area of the Style Play main page.

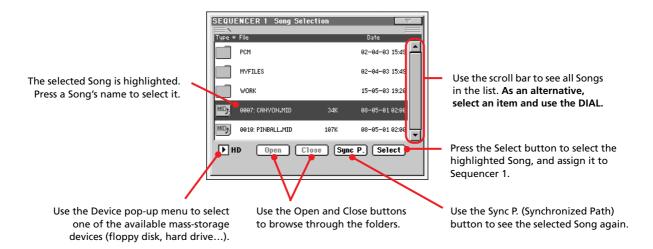
2 Press the Sequencer 1 area to open the Song Select window (or press the SELECT button of the Sequencer 1 section on the control panel).



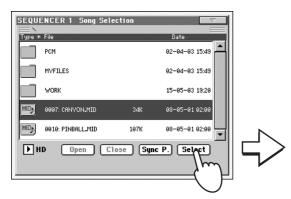
• Hint: As an alternative, you can open the Song Select window by pressing the SELECT button in the SEQUENCER 1 section on the control panel.



3 Scroll through the list and select the Song to play.



4 When the Song is selected, press the Select button to confirm your selection, and close the Song Select window.



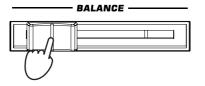
SONG PLAY T:0		
S CANYON	<mark>) Grand Piano</mark>	Selected Song
Meter: 4/4 M: J=170	b. Pranto 121.000.000 121 b. Dark Pad II-1 IP B:Synth 1(Pa+121.006.089 M 2	
2 Meter: 4/4 M: J=120	⊳ Strings Ens. 2	
S ▷ Perf: Stereo Grand	▷ Analog Strings2	
	B:Strings & V121.002.050 ₪ Ŭ 	
T ₁₁₀	i i i i i i i i i i i i i i i i i i i	
Volume Juke Lyrics STS Name	LOWER UPPER3 UPPER2 UPPER1 Mic Sub Pad Split	

After pressing the Select button in the display, the main page of the Song Play mode appears again.

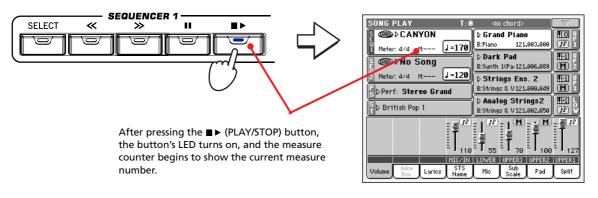
Playing back a Song

Once a Song has been selected, it may be played back by the sequencer.

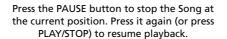
1 Be sure the BALANCE slider is completely moved to the left (toward Sequencer 1).

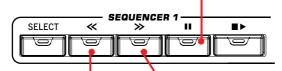


2 Press the ■> (PLAY/STOP) button in the SEQUENCER 1 section to start playback.



3 Use the SEQUENCER 1 control section to control the Song's playback.

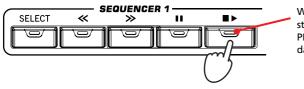




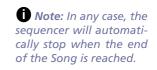
Press the REWIND button once to go to the beginning of the current measure. Keep it pressed to go back several measures.

Press the FAST FORWARD button once to go to the beginning of the next measure. Keep it pressed to go forward several measures.

4 When you want to stop the song and go back to the first measure, press the ■▶ (PLAY/STOP) button again.



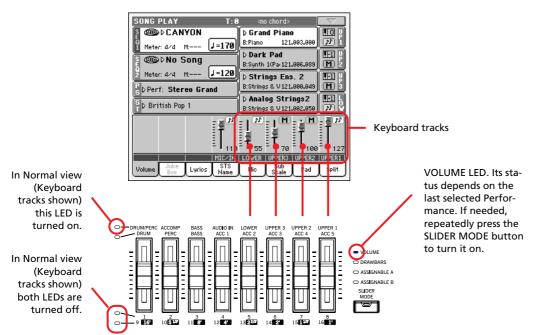
When the Song is stopped, the LED on the PLAY/STOP button goes dark.



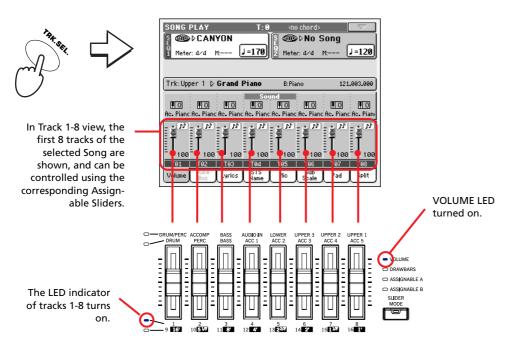
Changing tracks volume

During playback, you may wish to change each track's volume, to create a mix "on the fly".

1 In Normal view, use the Assignable Sliders to adjust each Keyboard track's volume (provided the VOLUME LED is turned on).

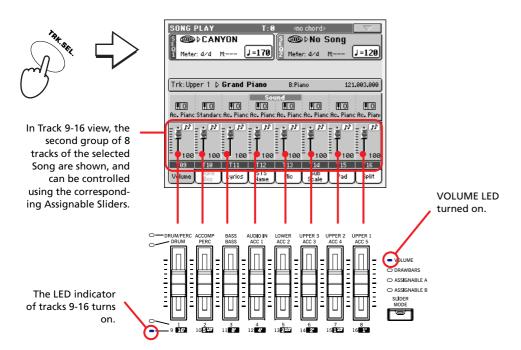


2 Press the TRK. SEL. (TRACK SELECT) button once to see tracks 1-8 (Track 1-8 view).



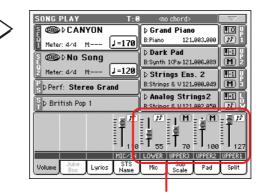
 Note: Changes to Song tracks will not be saved, and will be reset each time you press the
 ► (PLAY/STOP) button.
 To save changes, you must edit the Song in Sequencer mode.

3 Press TRK. SEL. once again to see tracks 9-16 (Track 9-16 view).



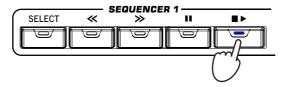
Hint: As an alternative, you can change each track's volume, by touching a track's area to select it, then using the TEMPO/VALUE controls to change the volume.

4 Press TRK. SEL. again, to return to the Normal view (Keyboard tracks).



Keyboard tracks

5 Press the ■ (PLAY/STOP) button to start the Song.



6 While listening to the Song, switch from Normal view to Track 1-8 and Track 9-16 view, to see which tracks are playing.

Each track has a sound assigned to it, so look for the name of the Sounds you are listening to.

Touch each track's channel strip, to see each track's detail in the Track • Info line.

	DNG PLAY Composition of CAN Meter: 4/4 Meter: 4/4 rk: Upper 1 b rk: Upper 1	M: J=170 Grand Piano	B:Piano und IE: PLeger Steel Gt	Song M: J=120 121.003.000 IC IC IC Park Pad Chorus (IC I				
Tirk: Uppe	er 1 D	Grand	Piano	B:Piar	10	121.003.0	999	
			T				<u> </u>	
Selecte	d track	-		. Press it to Select win-	Sound bank	S	Program Change (i ee "Show Program number" on page	m Change

Alternatively, you can see the Sound assigned to each track in the Sound • area of the Track 1-8 and Track 9-16 views.

	PERF:StereoGrand T:0 G00 chord> Image: StereoGrand T:0 G00 chord> Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image: StereoGrand Image		
	Trk:S1Tr01 > Polysynth B:Synth 2 121.000.030		
	Sound ITO ITO ITO ITO ITO ITO ITO Std. Kit3 Analog Ki Fret. Bas Grand Piz EP Leger Steel Gtr Dark Pad Chorus (
	191 192 193 194 195 196 197 198 Volume Juke Lyrios STS Mic Scale Pad Split		
	Sound		Octave Transpose
		\mathbf{F}	•
Std. Kit	3:Analog Ki:Fret. Bas:Grand PiaEP Leger:Steel Gtr:Dark Pad:Chorus	()	Sounds. Names are abb
			to fit the limited space.

previated, Press to open the Sound Select window.

Turning Song tracks on/off

During playback, you may wish to mute one or more tracks, for example to sing along with the Song, or play an instrumental part live on the keyboard.

Muting/unmuting Song tracks works exactly as with Style tracks. See "Turning Style tracks on/off" on page 44 for more information.

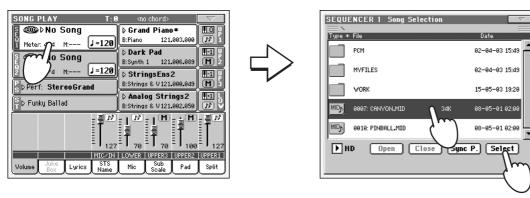
Note: These changes will not be saved to the Song. To save changes, edit the Song in Sequencer mode.

Mixing two Songs

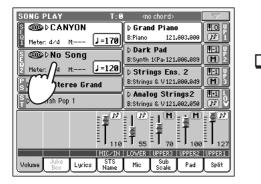


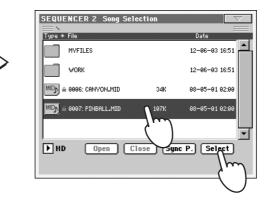
You can select two Songs at the same time, and mix between them using the BALANCE slider.

1 Press the Sequencer 1 area to open the Song Select window and select the Song to be played by Sequencer 1. Press Select to confirm.

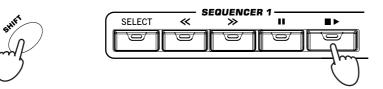


2 Once a song is assigned to Sequencer 1, press the Sequencer 2 area once to select it, and a second time to open the Song Select window. Select a Song to be assigned to Sequencer 2, and press Select to confirm.

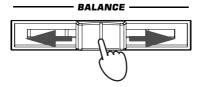




3 Keep the SHIFT button pressed, and press any of the two ■> (PLAY/STOP) buttons, to start both Sequencers at the same time.



4 During playback, move the BALANCE slider, to mix between the two Songs.



• Hint: You don't need to start both sequencers at the same time. You can start the first Song – then start the second one when the first one is near to the end. This way, you can use the BALANCE slider to gently crossfade between the end of one Song and the beginning of the following one.

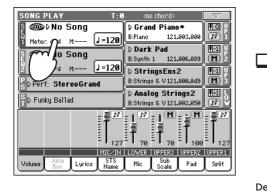
- **5** During playback, you may control each Sequencer separately, by using the dedicated Sequencer controls.
- 6 Press the relevant ■▶ (PLAY/STOP) button to stop the corresponding Sequencer.

Listening to a CD

If your Pa1X is fitted with the (optional) CDRW-1 CD Player, you can listen to songs from any Audio CD. Please note that, while you can assign a single CD track to either sequencers, you can mix it with a midifile assigned to the other sequencer.

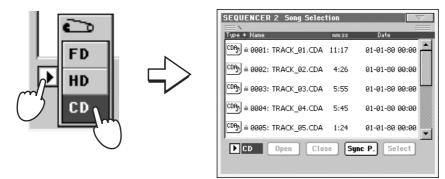
1 Insert the CD into the CD Player.

2 Press a Sequencer area to open the Song Select window.



	SEQU	ENCER 1 Song Sele	ction	
	Type 4	· File		Date
\sim		PCM		02-04-03 15:49
\sim		MYFILES		02-04-03 15:49
		WORK		15-05-03 19:20
	MID	9997: CANYON.MID	34K	08-05-01 02:00
	MID	0010: PINBALL.MID	107K	08-05-01 02:00 -
	۲.	ID Open C1	ose) (Syn	c P. Select
/				
vice pop-				
up menu				

3 Use the Device pop-up menu to select the CD Player.



4 Select any of the tracks contained in the CD, and press Select to assign it to the selected Sequencer.

	SONG PLAY T:0	I <no chord=""> 🔽</no>
	Section 1 Section 1	🕽 Grand Piano 🛛 🛄 🔋
	🖁 Time: :00 M: :00 🔽 All	B:Piano 121.003.000 P 1
		▷ Dark Pad
Check the All	9 Meter: 4/4 M: J=170	B:Synth 1(Pa: 121.006.089 M 2
option to listen to	2 Heter: 4/4 H: 3-119	þStrings Ens. 2 🛄 🦉
all the tracks on	S Perf: Stereo Grand	B:Strings & V121.000.049 M 3
the CD, starting	S Lisa Tune∗	▷Analog Strings2 🛄 b
from the selected		B:Strings & V121.002.050
from the selected	= = N	Ĩ₩ [™] I₩ [™] ₹₩ [™] ∄₩
one. Press 🔳 🕨	Ĩ	
(PLAY/STOP) to	= 119	ET 70 ET 70 EI 100 EI 127
start listening.	MIC/IN	LOWER UPPER3 UPPER2 UPPER1
5	Volume Juke Lyrics STS Box Lyrics Name	Mic Sub Pad Split

5 Use the Sequencer's transport controls to play/stop the selected CD track.

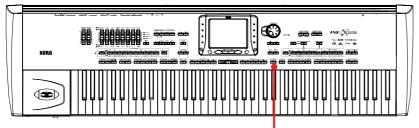
You can jump to the following CD track by keeping the SHIFT button pressed, while pressing the >> button. Keep SHIFT pressed and press << to jump to the previous CD track.

The SongBook

One of the most powerful features of the Pa1X is the onboard music database, that allows you to organize your Styles and Songs (in SMF, KAR and – optionally – MP3 format) for easy retrieving. Each entry of this database may include the artist, title, genre, number, key, tempo, and meter of a specified song. When selecting one of the entries, the associated Style, MP3 or Standard MIDI File is automatically recalled.

In addition to helping you organizing your shows, the SongBook allows you to associate up to four STSs to each Standard MIDI File or MP3. This way, it is easy to recall a complete setup for Keyboard tracks, effects, and the Voice Processor, for realtime playing over a Standard MIDI File or MP3.

You can add your own entries to the SongBook, as well as edit the existing ones. Korg has already supplied some hundred entries as standard. Furthermore, the SongBook allows you to create various custom lists, that may suit your different shows.

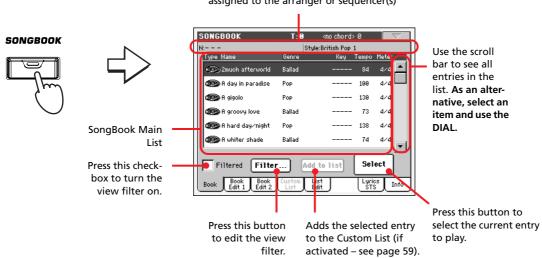


The SONGBOOK button

Selecting the desired entry from the Main List

A large database is already included with the instrument, and you can later customize it. You may browse through this database in a variety of ways.

1 While you are in Style Play or Song Play mode, press the SONGBOOK button to open the SongBook window.



Style or Standard MIDI Files(s) currently assigned to the arranger or sequencer(s)

2 Browse through the entries.

Icons in the Type column will help you identify the type of the entry. The Genre column is shown by default, but you can switch to the Artist column (see "Displaying Artist or Genre" below).



3 When the entry is visible in the display, select it and press the Select button in the display.

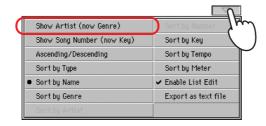
After selecting an entry, the corresponding Style, SMF, KAR file, or MP3 (optional) will be recalled, together with the relevant operating mode (Style Play or Song Play). Up to four STSs will also be recalled.

The selected Style, SMF, KAR file, or MP3 is shown in the higher part of the screen.

Displaying Artist or Genre

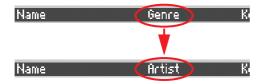
For space matter, either the Genre or Artist column can be seen in the display. You cannot see both at the same time.

1 Press the page menu icon to open the page menu.

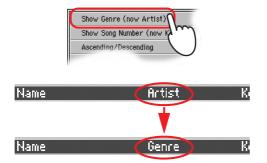


Note: The Artist and Key fields of all supplied entries have been intentionally left empty.

2 Choose Show Artist (now Genre) to switch from Genre to Artist in the List view. The Artist column will be shown.



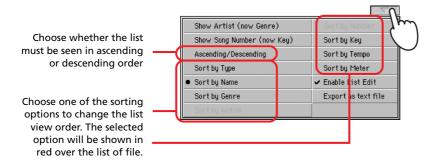
3 Open the page menu again, and choose the Show Genre (now Artist) item. The Genre column will be shown again.



Sorting entries

You can change the order entries are shown in the display.

1 Press the page menu icon to open the page menu.



2 Select one of the available sorting options.

The order of entries in the display changes, reflecting the selected sorting option.

Searching entries

The SongBook database may be really huge. You can, however, look for (say) specific artists or song titles, using the filtering functions.

1 Press the Filter button in the display, to open the Filter dialog box.

DNGBOOK	T:0	<no chord=""></no>	_	7	~
 Type Name	Genre	yle:British Pop: Key	Tempo	Meter	
🖅 2much afterworld	Ballad		84	4/4	٠
🐲 A day in paradise	Рор		100	4/4	
🐲 A gigolo	Рор		130	4/4	
🐲 A groovy love	Ballad		73	4/4	
🐲 A hard day⁄night	Рор		138	4/4	
🐲 A whiter shade	Ballad		74	4/4	
Filtered Filter		d to list	Se1		nfo

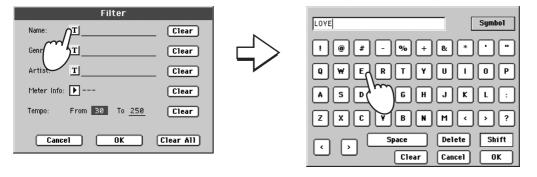
\Rightarrow	

	Filter				
	Name:	<u>T</u>	Clear		
I	Genre:	<u>T</u>	Clear		
	Artist:	<u>T</u>	Clear		
	Meter Info	>	Clear		
	Tempo:	From 30 To <u>250</u>	Clear		
	Cancel OK Clear All				

Available search criteria. "Genre" and "Artist" are both considered, even though only one of them may be shown in the List

2 Press the **T** (Text Edit) button next to the search criteria (even more than one) you want to enter.

For example, you may want to find all songs containing the word "love" in the title. If so, select the 'Name' criterion, and enter the word 'love'. Capitals are not relevant for the search.



3 Press OK in the display, and close the Text Edit dialog box. The entered text is now the search criteria.

LOYE Symbol	Filter	
! @ # - % + & * ' "	Name: TLOVE	Clear
QWERTYUIOP		Clear
ASDFGHJKL:	Meter Info: 🕨	Clear
$Z \times C \times B \times M \leftrightarrow P$	Tempo: From <u>30</u> To <u>250</u>	Clear
Space Delete Shift Clear Cancel OK O	Cancel OK	Clear All

4 Press OK to close the Filter dialog box and return to the SongBook page.

Once the Filter dialog box has been closed by pressing OK, the Filtered check box is automatically checked, and the filter is activated. Only entries matching the entered criterion are seen in the Main List.

	Styl	e:Funky Ballad	
Type Name	Genre	Key Temp	o Meter
🖅 A groovy love	Ballad	73	: a/a <mark>-</mark>
🐲 Could you be love	Reggae	102	: 4/4
🞯 Greatest love all	Ballad	65	i 4/4
🐲 How deep is love	Ballad	105	; a/a L
🐲 Love letters sand	Ballad	88	1 d/d
🞯 Love's theme	Disco	96	: 4/4 .
Filtered Filter	• Add	to list S	elect

5 To see the whole SongBook database again, press the Filtered check box again, to make the check mark disappear.

Adding entries

You can add your own entries to the SongBook database.

- **1** Go to the Style Play or Song Play mode, depending on the type of entry you want to add to the SongBook database.
- 2 Select the Style, Standard MIDI File or MP3 file (optional) to be added to the SongBook.

Assign the selected Song to Sequencer 1. Songs assigned to Sequencer 2 will not be saved in the SongBook entry.

3 Edit Keyboard and Style tracks as you prefer, by selecting different Sounds and Effects, or editing any other parameter.

Please note that changes to a Standard MIDI File's tracks will not be saved as SongBook data. Data included in the Standard MIDI File will always be considered.

4 Select a different Voice Processor Preset, if you like.

5 When your entry is ready, press the SONGBOOK button, then the Book Edit 1 tab to see the Book Edit 1 page.

Name of the Style, SMF, KAR or MP3 file, memorized with the entry (provided "Write Current Resource" is selected when saving it).

Entry's name When checked, current settings for Style tracks, or the path for the SMF, KAR or MP3 file, are saved with the entry. If unchecked, original Style track settings are saved with the entry. This parameter is mandatory when creating a new entry by pressing the New Song

When checked, current Keyboard track and Voice Processor settings are saved to one of the four STSs available for each entry. You can also exit the SongBook, edit Keyboard tracks, then return to the Song-Book and save the new settings to a different STS. Press the Text Edit icon to edit the STS name.

i.c	\mathbf{X} \mathbf{I}	/
	SONGBOOK T:0 <no chore=""> 0</no>]
	Name: 2much afterworld Resource: 🖤 CANYON.MID	
	Genre: <u>T</u> Ballad Tempo: <u>84</u>	
	Artist: T Meter Info: 🕨 4/4	
	Key Info: ▶ 🕨 M.Transp. 🗕	\vdash
	Write Current Resource: @ CANYON.MID	
	Write STS T Electric Piano To 🕨 😘	
	New Song Del Song Write	
	Book Book Custom List Lyrics Info	
	Press New Song to create a	
	new entry.	

Entry's parameters

Currently selected resource. If a different Style, SMF, KAR or MP3 file has been selected, it may differ from the saved resource (shown on top of the page).

One of the four STS available for each entry, where you can save the current settings for Keyboard tracks and the Voice Processor.

6 Press the New Song button in the display to add a new item to the Song-Book list.

button.

7 Press the **T** (Text Edit) button next to the field(s) you want to edit, and write the name. Set all other parameters.

You can write the genre, artist name, and name of the associated STS. Select a Tempo matching the song's tempo, and select the Meter and Key of the song. You can also specify a Master Transpose value, to be automatically selected when selecting the entry.

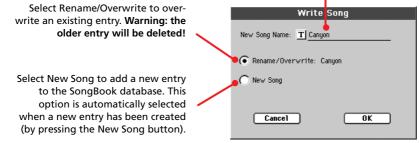
8 After having filled up all the desired fields (be as comprehensive as you can), press the Write button in the display to open the Write dialog box.

SONGBOOK T: 0 <no chord=""> 0</no>
Name: 2much afterworld Resource: 🖤 CANYON.MID 📃
Genre: <u>T</u> Ballad Tempo: <u>84</u>
Artist: T Meter Info: 🕨 4/4
Key Info: 🕨 M.Transp. 🗕
Write Current Resource: @ CANYON.MID
Write STS I Electric Piano To 🕨 STS1
Del Song Write
Book Book Custom List Lyrics Info

Write Song	I
New Song Name: TNEWSONG	
Rename/Overwrite: NEWSONG	
● New Song	
Cancel OK	

9 Press the <u>T</u> (Text Edit) button to assign a name to the new entry, then press OK to save the entry to the SongBook database.

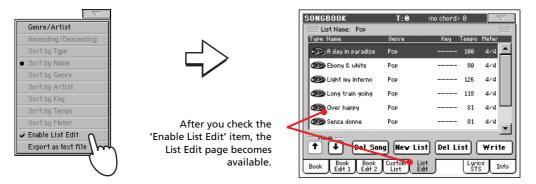
Entry's name. A good idea may be to assign the entry the same name of the associated Standard MIDI File or MP3 file, or a name suitable for the use of the associated Style.



Creating a Custom List

You can create several Custom Lists in the SongBook, to make a set of entries suitable for your various shows. Before starting a new Custom List, be sure you have added all needed entries to the SongBook main database (see "Adding entries" above).

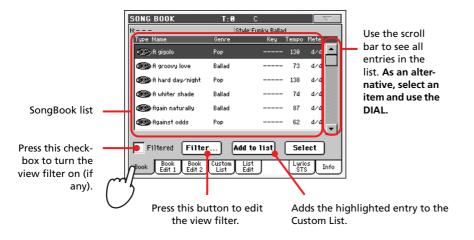
1 While in SongBook mode, open the page menu and check the 'Enable List Edit' item.



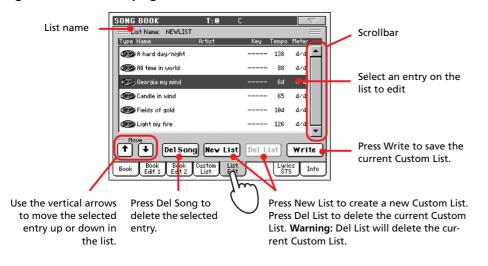
2 Select a Custom List to be edited.

To edit an existing list, press the Custom List tab to open the Custom List page, and select one of the available Custom Lists. To create a new list, press the List Edit tab to open the List Edit page, and press the New List button to create a new, blank list.

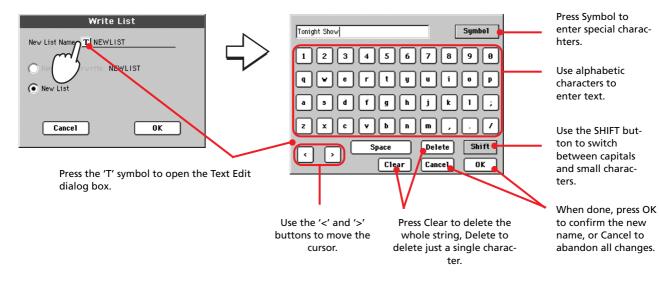
Press the Book tab to open the Book page and see the full database. Use the various sorting, searching and filtering options (seen above) to find the entries you are looking for. Press the Add to List button when the desired entry has been selected.



4 When finished adding entries to the Custom List, press the List Edit tab to go to the List Edit page, and use the various commands to edit the list.



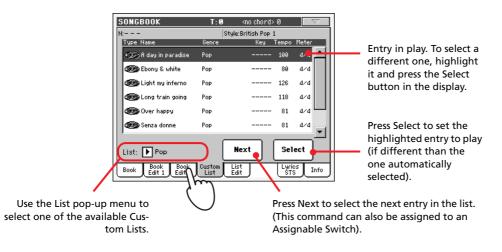
5 When the Custom List is ready, press the Write button in the display to save it to memory. If you like, assign a new name to the Custom List.



Selecting and using a Custom List

After creating one or more Custom Lists, you can select one and use it for your show.

- **1** Press the Custom List tab to select the Custom List page.
- 2 Use the List pop-up menu to select one of the available Custom Lists.

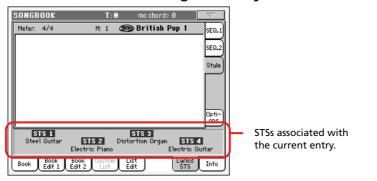


3 Select one of the entries in the list (it turns blue), then press the Select button in the display (the selected entry turns green) to start playing back from there.

Selecting a SongBook STS

Up to four STSs can be associated to an entry based on a Standard MIDI File or an MP3 file.

1 Press the Lyrics/STS tab to open the Lyrics/STS page and see the four STSs associated to the current SongBook entry.

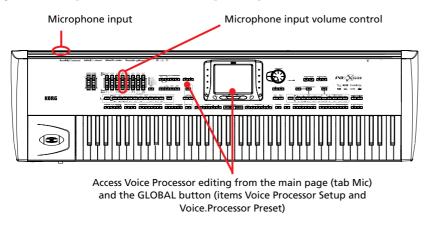


2 Select the desired STS by touching its name in the display. As an alternative, press the SINGLE TOUCH BUTTON corresponding to the desired STS.

The STS is selected. Keyboard tracks and Voice Processor settings may change.

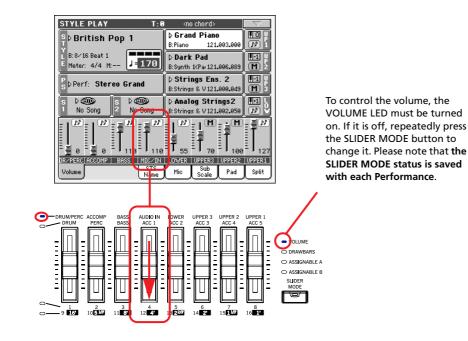
Singing with a connected microphone

Pa1X is fitted with a powerful digital voice processor, based on technologies developed by TC Helicon, including effects, four-part harmonization, and (optional) pitch correction and voice modeling.



Connecting a microphone

To sing along with the Pa1X, you must first connect a suitable microphone to its MIC input. Any dynamic microphone is directly supported. To connect a phantom-powered condenser microphone, you need an external phantom power supply. You can also connect the microphone though an external mixer, and connect one of the mixer's line outputs to the line input IN1 of the Pa1X.



Note: Lowering the Audio In track volume helps avoiding feedback. Feedback is caused by audio generated by the Pa1X, returning to the audio circuitry via the microphone.

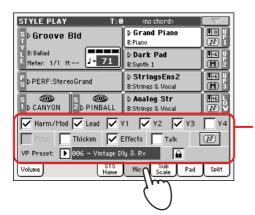
1 Lower the Audio In track volume by using the corresponding slider.

2 Connect a microphone.

If you connect a microphone to the MIC input, move the MIC/IN1 switch to the MIC position. This allows the microphone signal to pass through the built-in high-quality preamp of the Pa1X.

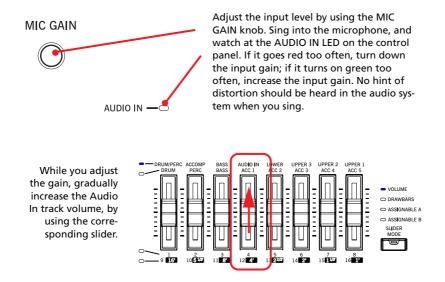
If you connect a microphone to the IN1 input, passing through a mixer or a preamp, move the MIC/IN1 switch to the IN1 position. This will allow you to use the Pa1X as a powerful outboard effect processor.

3 Go to the main page of the Style Play or Song Play mode, and select the Mic tab. Uncheck all the "master" switches.



Voice Processor "master" switches. To test the microphone level, uncheck Harm/ Model, Pitch, Thicken, Effects, Talk, Mic Mute.

4 Sing into the microphone, and adjust the input gain and the Audio In track's volume, until you achieve the correct settings.



5 Turn on again all desired "master" switches.

	🗸 Lead 🔽 V		🔽 ИЗ	۷4
	Thicken 🔽 Ef	fects 🔲 T	alk 🛛	M
set: 🕨)06 – Vintage D1y	& Rv	B	
Volume	STS Name	Mic Sub	Pad	Split

6 Try the Play/Mute button of the Microphone panel, to mute/unmute the whole microphone section.





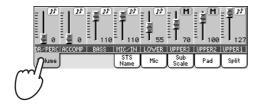
Note: This is the same play/mute control you can find in the "Mic/ In" channel strip of the Volume panel.

weak incoming signal.

Guide

Quick

7 Press the Volume tab to select the Volume panel.



- 8 If you like, start a Style or Song. Adjust the microphone final volume using the AUDIO IN Assignable Slider.
- 9 Adjust the other settings, balancing the Style/Song and microphone with the ACC/SEQ VOLUME slider and the AUDIO IN Assignable Slider.

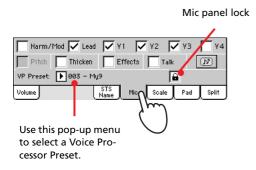
The settings for the ACC/SEQ VOLUME and AUDIO IN sliders are not saved in memory, so they stay consistent when selecting different Styles, Performances, Songs or Voice Processor settings.

Applying harmony to your voice

- **1** Be sure you are in Style Play mode, and select a Style you especially like.
- 2 Press the Mic tab to show the Microphone panel, and select one of the available Voice Processor Presets.

Voice Processor Presets are settings for the various Voice Processor modules (Effects, Harmony, Voice Modeling, Pitch Correction, Thickening). By selecting a Preset, all processing parameters may change.

A Voice Processor Preset is assigned to each Performance or STS. When selecting a different Performance or STS, the Voice Processor Preset may change (depending on the Mic panel lock status), changing the type of processing applied to your voice.



STYLE PLAY	
S¢Lisa Tur T	002 – Concert Hall Rv' 1.8
B: Soul & Funk	003 - Sync Dly & Rvb
E Meter: 4/4 M	004 - Sync Diy & Rvb
Ps⊳Perf: Ster	005 – Slapback 3.
	006 - Vintage Dly & Rv
1 No Song	007 - 1:1 Dly & Rvb 1.0
Harm/Mod	008 - 2:1 Dly & Rvb
	009 – 1 Voice Up
Pitch	010 – 1 Voice Down
VP Preset:	011 – 1 Down 1 Up
Volum	012 – 2 Voices Up 👻
ヨア	

Note: Pitch Correction and Voice Modeling are available as options.

• Note: By default, the first Performance and STS does not include any harmony effect, to avoid any unwanted processing from being applied to the microphone. When you select a Preset you like, you can save it to a Performance or STS (see "Saving your settings to a Performance" on page 35)

- **3** If you like, start the Style.
- 4 Check the Harm/Model checkbox, to turn Harmony on.
- 5 Play the keyboard, to send chords to the Voice Processor.
- **6** Sing along with the chords and melody you play on the keyboard.
- 7 If it is playing, stop the Style.

Note: By default, you can turn the Harmony section on/off by pressing the ASSIGNABLE SWITCH 2, whichever the shown page is.

Soloing your voice (TalkBack)

Sometimes, during a live show, you might like to talk to your audience. Use the TalkBack function to attenuate the music, and let your voice pass through clean and clear.

- 1 While in the main page of the Style Play or Song Play mode, press the Mic tab to see Voice Processor's "master" switches.
- 2 During playback, press the Talk checkbox, making the check mark appear.

Harm/h	1od 🔽 Lead	V1	V2	🔽 УЗ	٧4
Pitch	Thicken	Effec	ts 🔽 1	n.	M
VP Preset:	🕨 003 - My	9		JEm	
Volume		STS Name M	ic Scal	J.) Split

3 Sing or talk into the microphone.

You'll hear background music has been made softer, while your voice will be heard *loud and proud*.

4 To turn the TalkBack function off, press the Talk checkbox again, making the check mark disappear.

The background music returns to the original volume.

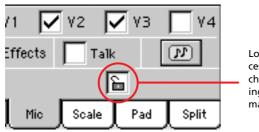
Locking Voice Processor settings

If you like the selected Voice Processor Preset, and other settings you have made in the Microphone panel, you can "lock" them, to prevent them from changing each time you select a Performance, Style or STS that may be saved using different settings.

1 While the Microphone panel is shown in the display, press the lock icon to freeze it.



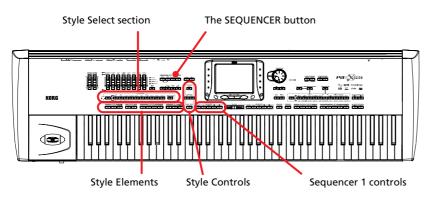
2 To unlock the settings, press the lock icon again.



Lock off. Voice Processor settings will change when selecting a new Performance or STS. **Note:** By default, you can turn the TalkBack function on/off by pressing the ASSIGNABLE SWITCH 4, whichever the shown page is.

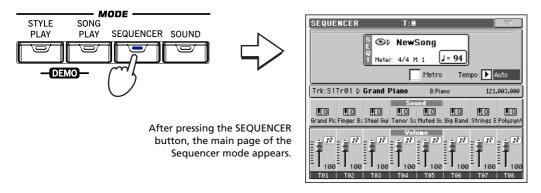
Recording a new Song

There are several ways to create a Song on the Pa1X. The easiest and fastest is to use the Styles to record what you are playing in realtime on the keyboard, while the arranger gives you the accompaniment tracks.

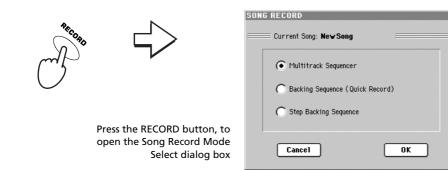


Entering Backing Sequence (Quick Record) mode

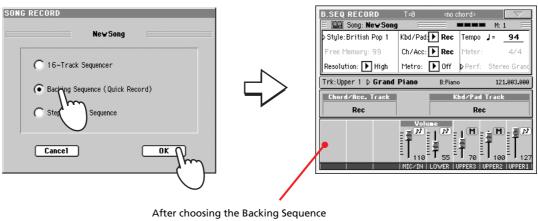
1 Press the SEQUENCER button to switch to the Sequencer mode.



2 Press the RECORD button to open the Song Record Mode Select dialog box.



3 Select the Backing Sequence (Quick Record) option and press OK to enter the Backing Sequence Record mode.



(Quick Record) option, the Backing Sequence Record page appears.

Preparing to record

When you enter Backing Sequence Record, the most recently used Style is already selected, and all tracks are ready to record. You could simply start recording as if you were playing in realtime with the Styles. However, there are some settings that you may wish to edit.

• If you like, adjust any editable parameter in the display.

Press the Style param- eter (or one the STYLE buttons) to open the	Track(s) status. 'Rec' means they are ready to record. 'Play' means they are recorded and you can hear them. 'Mute' means they cannot be heard.	Measure counter. N ative numbers (-2, - are the precount, after which you car start recording.
Style Select window, and select a different Style (as seen on page 38).	SEQ RECORD T=0 <no chord=""> Song: New Song H: 1 Style:British Pop 1 Kbd/Pad. Rec Free Memory: 99 Ch/Acc: Rec Meter: Resolution: High Metro: D Off Perf: Stereo Grade</no>	Style's Tempo. Chan it, if you like. Style's Meter. You c
	Ve Ve Ve Ve <	not change it. Press the Perf/STS parameter to open the Performance Select window, and select a different Pe formance (as seen c
		page 34). As an altenative, you use the PERFORMANCE/ SOUND or STS but-

Grouped tracks. During Quick Record, you cannot access each separate Song track. For ease of use, just two 'master' tracks are provided: Kbd/Pad (Keyboard/Pads) and Ch/Acc (Chord/Accompaniment).

leg-1) ٦

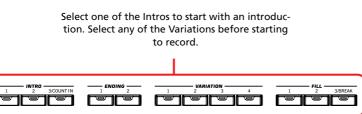
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an-

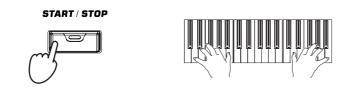
eron er-UND or STS but tons.

Recording

1 Select the Style Element you wish to use before starting to play.



2 Start recording, by pressing the START/STOP button.

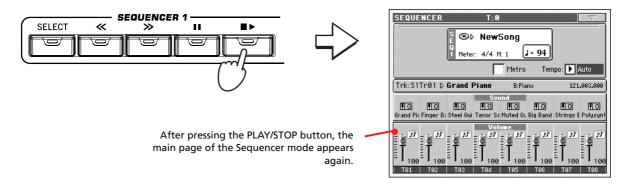


3 Play as if you were performing live with the Styles.

During recording, select any Style Element (Intro, Variation, Fill, Ending...) you like. You can also press START/STOP to stop the Style, and press it again to start the Style up again!

Please remember that, while recording in Backing Sequence Record mode, you cannot use the SYNCHRO, TAP TEMPO/RESET, ACC/SEQ VOLUME controls.

4 When finished recording your Song, press the ■> (PLAY/STOP) button in the SEQUENCER 1 section to exit recording, and return to the main page of the Sequencer mode.



5 While in the main page of the Sequencer mode, press the ■▶ (PLAY/STOP) button in the SEQUENCER 1 section to listen to the recorded Song.

The Backing Sequence Song has been converted to an ordinary Song. If you like it, you can save it to disk, and read it in Song Play mode, or with any external sequencer.

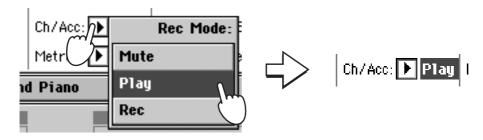
6 To edit the Song, press MENU to enter the Edit mode (see instructions starting from page 173).

 Note: If you do not wish to start the Song with the Style playing, you can simply start recording by pressing the ■ PLAY/STOP button in the SEQUENCER 1 section, and start the Style only later. The Style will start at the next strong beat

Second-take recording (Overdubbing)

You may wish to re-record, and add one of the two "grouped" tracks, or overwrite a bad recording with a new one. Usually, you will record all chord and Style Element changes during the first take, and record Keyboard tracks and Pads during the second take.

- 1 Press the REC button to enter Record again. When the Song Record Mode Select dialog box appears, select Backing Sequence (Quick Record) again.
- 2 If you are recording just one of the "grouped" tracks, set the track to be preserved to the Play mode.



- 3 Repeat the recording process, and press the ■> (PLAY/STOP) button in the SEQUENCER 1 section to stop recording and to return to the main page of the Sequencer mode.
- 4 While in the main page of the Sequencer mode, press the ■► (PLAY/STOP) button in the SEQUENCER 1 section to listen to the recorded Song.

Again, the Backing Sequence Song has been converted to an ordinary Song.

Saving a Song to disk

After recording a Song that you like, it is a good idea to save it to disk, to avoid losing it when the instrument is turned off.

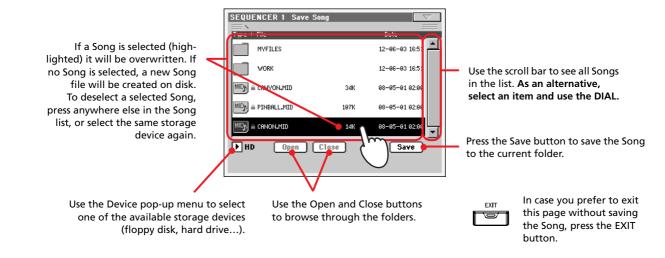
1 While in the main page of the Sequencer mode, press the page menu icon to open the page menu.



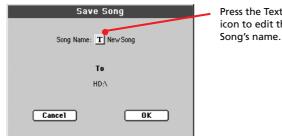
2 Select the Save song command to open the Save Song window.

		SEQUENCER 1 Save So	ng	
Write Global-Seq. Setup		Type * File		Date
Load Song		MYFILES		12-96-93 16:51
Save Song 💦 🔒				
Undo Undo		VORK		12-06-03 16:51
Overdub Step Recording			34K	08-05-01 02:00
Overwrite Step Recording		MIDE = PINBALL.MID	197K	08-05-01 02:00
Delete Song			1917	88-83-81 82.88
Delete Current Track	After you select the Save		14K	08-05-01 02:00
Solo Track	song command, the Save	HD Open (Close	Save
Exit from Record	Song page appears.			

3 Select a device and folder where you want to save your Song.

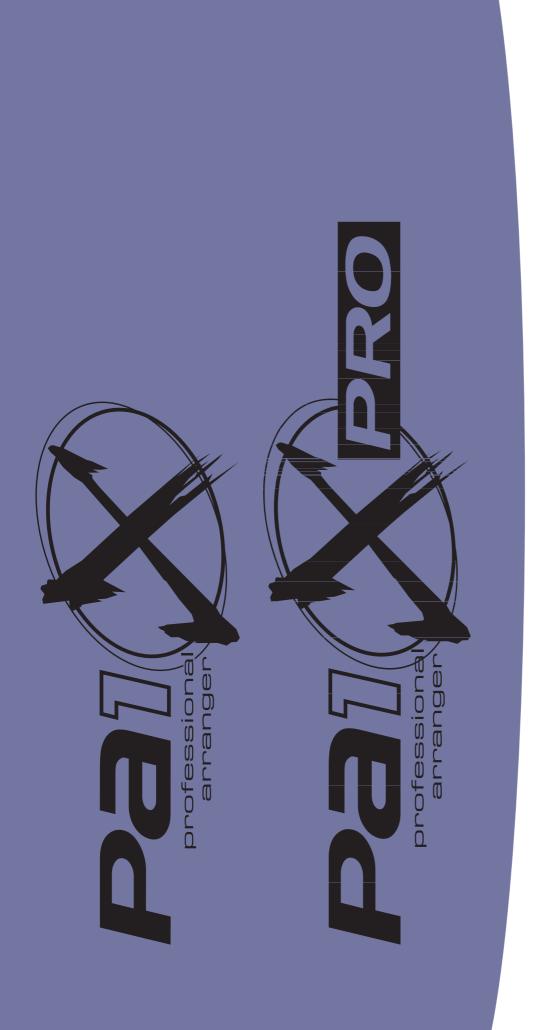


4 Press the Save button in the display to open the Save Song dialog box.



Press the Text Edit icon to edit the

5 Press OK in the display to save the Song to disk, or Cancel to stop the Save operation.



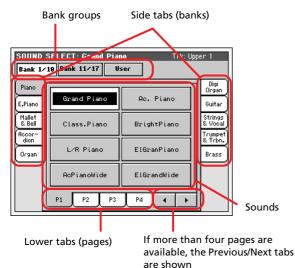
Selecting elements

The following windows are shown in the various operating modes, whenever you try to select a Sound, Performance, Style or Song.

Sound Select window

Press the Sound area whereas it appears in the display, or one of the SOUND SELECT buttons on the control panel (provided the SOUND SELECT LED is lit), to open the Sound Select window. Use the SOUND SELECT buttons to go directly to the selected bank.

Press EXIT to exit from this page and go back to the previous page without selecting any Sound.



Note: Depending on the status of the "Auto Performance/Sound Select" parameter (see page 229), a Sound may be immediately selected when pressing one of the SOUND SELECT buttons. The latest selected Sound for that bank will be selected.

Bank groups

Selected group of banks.

Side tabs (banks)

Use these tabs to select a bank of Sounds. Each tab corresponds to one of the SOUND SELECT buttons on the control panel.

Lower tabs (pages)

Use these tabs to select one of the available pages in the selected bank.

If you press again the same SOUND/PERFORMANCE SELECT button on the control panel, the next page in the same bank is selected. This way, you do not need to press one of the corresponding tabs in the display in order to select a different page.

Previous/Next tabs

Scroll the lower tabs to the left or the right, when additional tabs are available but cannot be seen in the display.

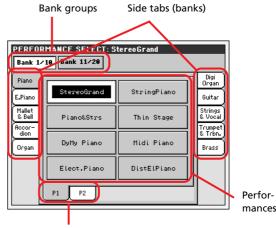
Sounds

Press one of these buttons in the display to select a Sound. Unless the DISPLAY HOLD LED is turned on, the window automatically closes short after you select a Sound.

Performance Select window

Press the Performance area whereas it appears in the display, or one of the PERFORMANCE SELECT buttons on the control panel (provided the PERFORMANCE SELECT LED is lit), to open the Performance Select window. Use the PERFORMANCE SELECT buttons to go directly to the selected bank.

Press EXIT to exit from this page and go back to the previous page without selecting any Performance.



Lower tabs (pages)

Note: Depending on the status of the "Auto Performance/Sound Select" parameter (see page 229), a Performance may be immediately selected when pressing one of the PERFORMANCE SELECT buttons. The latest selected Performance for that bank will be selected.

Bank groups

Selected group of banks.

Side tabs (banks)

Use these tabs to select a bank of Performance. Each tab corresponds to one of the PERFORMANCE SELECT buttons on the control panel.

Lower tabs (pages)

Use these tabs to select one of the available pages in the selected bank.

If you press again the same SOUND/PERFORMANCE SELECT button on the control panel, the next page in the same bank is selected. This way, you do not need to press one of the corresponding tabs in the display in order to select a different page.

Previous/Next tabs

Scroll the lower tabs to the left or the right, when additional tabs are available but cannot be seen in the display.

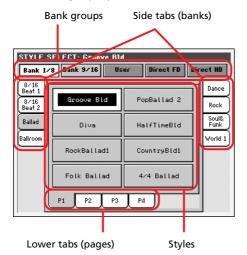
Performances

Press one of these buttons in the display to select a Performance. Unless the DISPLAY HOLD LED is turned on, the window automatically closes short after you select a Performance.

Style Select window

Press the Style area whereas it appears in the display, or one of the STYLE buttons on the control panel, to open the Style Select window. Use the STYLE buttons to go directly to the selected bank.

Press EXIT to exit from this page and go back to the previous page without selecting any Style.



Note: Depending on the status of the "Auto Style Select" parameter (see page 229), a Style may be immediately selected when pressing one of the STYLE SELECT buttons. The latest selected Style for that bank will be selected.

Bank groups

Selected group of banks.

Side tabs (banks)

Use these tabs to select a bank of Styles. Each tab corresponds to one of the STYLE buttons on the control panel.

Lower tabs (pages)

Use these tabs to select one of the available pages in the selected bank.

If you press again the same STYLE SELECT button on the control panel, the next page in the same bank is selected. This way, you do not need to press one of the corresponding tabs in the display in order to select a different page.

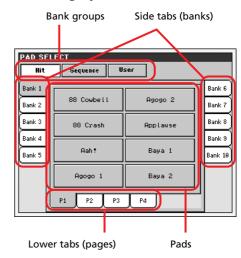
Styles

Press one of these buttons in the display to select a Style. Unless the DISPLAY HOLD LED is turned on, the window automatically closes short after you select a Style. After selecting a Style from this window, its name begins to flash, meaning it is ready to start playing at the beginning of the next measure.

Pad Select window

Press the Pad area whereas it appears in the display, to open the Pad Select window.

Press EXIT to exit from this page and go back to the previous page without selecting any Pad.



Bank groups

Selected group of banks, corresponding to different types of Pads. *Hit* are single-note, pre-programmed factory Pads. *Sequence* are sequence-based, pre-programmed factory Pads. *User* can be either single-note or sequence-based Pads, and can be user-recorded or modified.

Side tabs (banks)

Use these tabs to select a bank of Pads.

Lower tabs (pages)

Use these tabs to select one of the available pages in the selected bank.

Pad

Press one of these buttons in the display to select a Pad. Unless the DISPLAY HOLD LED is turned on, the window automatically closes short after you select a Pad.

STS Select

Use the four SINGLE TOUCH SETTING button on the control panel, to select one of the four STS associated with the current Style or the selected SongBook entry.

Press the STS tab on the main page of the Style Play and Song Play mode, or the Info tab on the SongBook mode, to see the name of the available STSs. • In Style Play and Song Play mode:



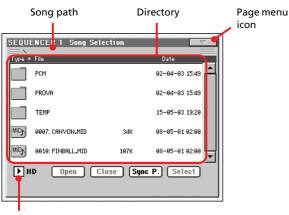
• In SongBook mode:

STS 1		STS 3	
Piano&Strs	STS 2 Flute	NEW Guitar*	STS 4 WURLI1*
Book Book C	ustom List List Edit	J	Info

Song Select window

This page appears when you press one of the Song areas in the display, or one of the SELECT buttons in one of the SEQUENCER sections on the control panel.

Press EXIT to exit from this page and go back to the main page of the Song Play operating mode without selecting a Song.



Storage device

While in this page, select a Standard MIDI File, Karaoke, or MP3 file (optional) for the selected Sequencer. A Jukebox file may only be assigned to Sequencer 1.

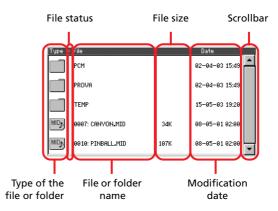
Note: There is a separate working directory for each onboard sequencer.

Song path

This line shows the current device path.

Directory

This is the list of the selected device's content.



Use the scrollbar to scroll the list items.

As an alternative, you can select one of the items, and use the TEMPO/VALUE controls to scroll.

Keep the SHIFT button pressed, and press DOWN or UP, to jump to the previous or next alphabetical section.

A list can contain several different types of files or folders.

Type icon	File/folder type
MID	Standard MIDI File (SMF)
KAB	Karaoke file (KAR)
MP3	MPEG Layer 3 (MP3)
СDA	Audio CD track
JBX	Jukebox file (JBX)
	Folder

A file or folder may be in one of the following status. (See "Protect" and "Unprotect" on page 270 for information on how to change the file status).

Status icon	File/folder status
â	Protected
-	Unprotected

Page menu icon

Press the page menu icon to open the menu. See "Song Select page menu" on page 75 for more information.

Storage device

Use this pop-up menu to select one of the available storage devices.

Device	Туре
FD	Floppy disk
HD	Hard disk (optional of the Pa1X)
CD	CD (optional)

Open

Opens the selected folder (item whose icon looks like this one: .

Close

Closes the current folder, returning to the parent ("upper") folder.

Sync P. (Synchronized Path)

Press this button to see the Song assigned to the selected Sequencer. This is useful to quickly return to it, after you have browsed through long directories and dug into different folders.

Select

Selects the highlighted item in the display. If a Song is already playing, it stops, and the new Song is ready to play. You are returned to the main page.

Selecting a Song by its ID number

Each Song in a folder on disk (up to 9,999) has a progressive ID number assigned. You can see this number before the Song's name in the Song Select window. You can use this number to select the Song by composing the corresponding number, speeding up the Song retrieval when you are using an hard disk filled with midifiles.

0007: CANYON.MID 34K

While in the Song Select window, press the SELECT button to open the keypad, and enter the number corresponding to the Song to be selected.

While in any page of the Song Play mode, press the SELECT button twice to open the keypad.

Note: If no Song corresponds to the dialed number, the "Song not available" message will appear.

Warning: While the directory may contain more than 9999 files, you can't select Songs outside the 0001-9999 range when using the numeric keypad.

Song Select page menu

Press the page menu icon to open the menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.



Export Song List

Select this command to save the current list as a text file to a floppy disk. This way, you will be able to print a list of Songs, to see which number matches each Song.

- 1. While in the Song Select window, select the folder whose Song list you wish to save as a text file.
- 2. Select the Export Song List command from the page menu.
- 3. A dialog box will appear, asking you to select either a floppy disk or the hard disk.

Write So	ong List
● floppy (please insert a ● hard disk	floppy disk and press OK)
Cancel	ОК

4. Select an option.

• If you select the floppy disk, insert a floppy disk in the disk drive, and press OK to confirm.

• If you select the hard disk, just press OK to confirm.

Note: The text file will contain a list of "*.mid", "*.kar", ".mp3" and "*.jbx" files only. Folders and different kinds of files will not be included.

When saved, the text file will be named after the selected folder. For example, a folder named "Dummy" will generate a "Dummy.txt" file. If a file with the same name already exists on the floppy disk, it will be overwritten without waiting for any confirmation. A file containing the list of all valid files contained into the root of the disk will generate a "Root.txt" file.

The list will include the progressive number assigned to each Song, file names in MS-DOS format (8.3), the total number of files in the list.

For the correct display and printing of the list on a personal computer, use a fixed size (i.e., non-proportional) character in your text editor.

Style Play operating mode

The Style Play mode is the boot-up operating mode. When in this mode, you can play with Styles (i.e. automatic accompaniments), while playing with one to four tracks (Upper 1-3 and Lower) on the keyboard. You can select different Sounds and Effects by selecting Performances and STSs. A different Voice Processor Preset may be selected by a Performance or STS. You can also use the SongBook to automatically select Styles for a desired music genre.

Start-up settings

Since Performance 1 of Bank 1 (Performance 1-1) is automatically selected when turning the instrument on, you can save to it your preferred start-up settings.

Just select the Sounds, Effects, MIDI channels, Voice Processor Preset, and other settings you would like to have automatically selected when turning the instrument on, and select the "Write Performance" from the page menu. When the Write Performance window appears, save the settings to Performance 1 of Bank 1. (See "Write Performance dialog box" on page 95).

Note: If you like some settings are preserved even when selecting different Performances, STSs and Styles, turn on the desired "locks" to avoid changes to the selected parameters (see "General Controls: Lock" on page 227). Save these locks to the Global (see "Write Global - Global Setup dialog box" on page 251).

How Styles, Performances and STSs are linked together

Styles, Performances and STSs are linked in many ways.

• When the SINGLE TOUCH LED is on, selecting a Style also changes Keyboard tracks (STS 1 is automatically selected). Performance settings are overridden.

• When the STYLE CHANGE LED is on, selecting a Performance also selects a Style (the one whose number is memorized with the Performance).

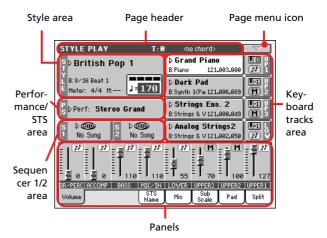
• Current track settings can be saved either in a Performance, an STS, or a Style Performance, depending on the page menu command you select.

Main page (Normal view)

This is the page you see after you turn the instrument on.

To access this page from another operating mode, press the STYLE PLAY button.

To return to this page from one of the Style Play edit pages, press the EXIT button.



To switch between Normal view (Keyboard tracks, grouped Style tracks and Mic/In controls) and Style view (individual Style tracks), use the TRK. SEL. (TRACK SELECT) button. (See "Style Tracks view page" and "Volume panel" starting from page 78).

Page header

This line shows the current operating mode, transposition and recognized chord.

STYLE PLAY	T:0 <no< th=""><th>chord></th></no<>	chord>
Operating mode	Master Transpose	Recognized
name	(in semitones)	chord

Operating mode name

Name of the current operating mode.

Master transpose

▶PERF ▶PERF^{Sty}

Master transpose value in semitones. This value can be changed using the TRANSPOSE buttons on the control panel.

Note: Transpose may be automatically changed when selecting a different Performance or Style. It may also be changed when loading a Standard MIDI File generated with an instrument of the Korg Pa series.

To avoid transposing, "lock" the Master Transpose parameter in the Global (see "General Controls: Lock" on page 227), then write the Global to memory (see "Write Global - Global Setup dialog box" on page 251).

Recognized chord

Displays the recognized chord, when you play a chord on the keyboard. If no chord abbreviation is shown, no chord recognition mode has been selected by using the CHORD SCANNING buttons (see page 11).

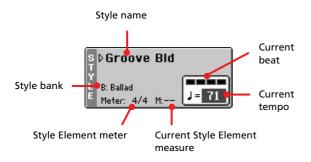
Page menu icon

Press the page menu icon to open the menu. See "Page menu" on page 95 for more information.



Style area

This is where the Style name is shown, together with its tempo and meter parameters.



Style name

Currently selected Style. Press the Style name to open the Style Select window. As an alternative, use the STYLE SELECT section on the control panel.

Style bank

Bank the current Style belongs to.

Style Element meter

Meter of the current Style Element.

Current measure

Measure number of the current Style Element, that is currently playing.

Current beat

Beat number of the current measure, that is currently playing.

Current tempo

▶PERF ▶PERF^{Sty}

▶PERF

▶PERF

Metronome tempo (from 30 to 250). Select this parameter and use the TEMPO/VALUE controls to change the tempo.

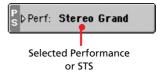
As an alternative, you don't need to select this parameter; just keep the SHIFT button pressed and use the DIAL to change the tempo.

To recall the Tempo stored in the current Style, press the DOWN/- and UP/+ buttons at the same time.

Note: Tempo may change while a Style Element is playing. Each Style Element may contain Tempo Change data.

Performance/STS area

This is where the latest selected Performance or STS name is shown.



Selected Performance or STS

This is the last selected Performance (PERF) or Single Touch Setting (STS).

Press the name to open the Performance Select window. As an alternative, use the PERFORMANCE/SOUND SELECT section to select a different Performance.

To select a different STS, use the four SINGLE TOUCH SET-TING buttons under the display.

Sequencer 1/2 area

This is where Songs assigned to the two onboard sequencers are shown.



Song name

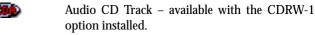
Song name

JBX:

Name of Songs assigned to Sequencer 1 (S1) and Sequencer 2 (S2). You can select Songs while playing Styles, to have them ready when switching to Song Play mode.

The icon shows the type of the selected Song.

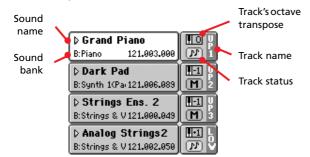
- Standard MIDI File, often abbreviated as SMF (file extension: *.MID or *.KAR).
- MP3 available with the EXBP-MP3 option installed (file extension: *.MP3).



Only assignable to Sequencer 1. A Jukebox file (file extension: *.JBX) can be assigned to Sequencer 1, but its name is not shown in this area. The JBX icon appears, together with the name of the currently selected Song in the Jukebox list.

Keyboard tracks area

This is where Keyboard tracks are shown.



Sound name

▶PERF ▶STS

▶PERF ▶STS

Name of the Sound assigned to the corresponding Keyboard track.

• If the track is already selected (white background), press the Sound name to open the Sound Select window.

• If the track is not selected (dark background), first select it, then press the Sound name to open the Sound Select window.

Sound bank >PERF >STS

Bank the current Sound belongs to.

Program Change

page 228).

Program Change number. Shown only when the "Show Program Change number" parameter is turned on in Global mode. (See

Keyboard track name

Non editable. Name of the corresponding track:

UP1	Upper 1
UP2	Upper 2
UP3	Upper 3
LOW	Lower

Keyboard track octave transpose

▶PERF ▶STS

Non editable. Octave transpose of the corresponding track. To individually edit the octave transpose for each track, go to the "Mixer/Tuning: Tuning" edit page (see page 84).

You can also transpose all Upper tracks by using the UPPER OCTAVE buttons on the control panel.

Keyboard track status

▶PERF ▶STS

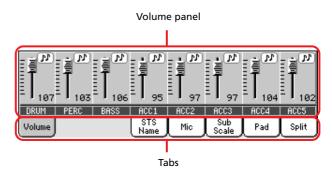
Play/mute status of the current track. Select the track, then press this area to change the track status.

\mathbf{M}	Play status.	The track	can be	heard.

- Mute status. The track cannot be heard.
- When the icon of the Lower track is framed in yellow, the Bass & Lower Backing function is active (see page 94).

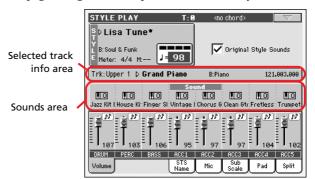
Panels

The lower half of the main page contains the various panels, you can select by pressing the corresponding tabs. See more information in the relevant sections, starting from page 79.



Style Tracks view page

Press the TRK. SEL. button to switch from the Normal view to the Style Tracks view. In this view, individual Style tracks are shown in the lower half of the display, while the upper half of the main page changes, to show parameters for the Style tracks.



Press TRK. SEL. again to return to the Normal view (Keyboard tracks, grouped Style tracks, Mic/In controls).

Original Style Sounds

▶PERF ▶PERF^{Sty}

This parameter lets you select different Sounds for the Style tracks, other than those recorded in each Style Element pattern. Sounds assigned when this parameter is checked are shown in the Sounds area of this page.

Note: This parameter can be saved with the Performance or Style Performance, and is automatically set to On or Off when you select a different Performance or Style, depending on its saved status.

- On Style tracks always use the original Sounds recorded in each Style Element. If you assign a different Sound to a Style track, this parameter is automatically set to Off.
- Off You can assign different Sounds to each Style track, and save them in a Performance or Style Performance. This becomes the only track's Sound for all Style Elements.

Selected Track Info area

This line lets you see the Sound assigned to the selected track. Not only it is shown on the main page, but also in several edit pages.

Trk:Upper 1 D Grand	Piano	B:Piano	121.00	93.000
Track name		Sound bank		
Sound	d name		Program	l Change

Track name

Name of the selected track.

Sound name

▶PERF ▶PERF^{Sty}

Sound assigned to the selected track. Press anywhere in this area to open the Sound Select window, and select a different Sound.

Sound bank

Bank the selected Sound belongs to.

Program Change

▶PERF ▶PERF^{Sty}

▶PERF ▶PERF^{Sty}

Program Change number. Shown only when the "Show Program Change number" parameter is turned on. (See page 228).

Sounds area

This area lets you see Sounds and octave transposition for the eight Style tracks.



Style tracks octave transpose

▶PERF ▶PERF^{Sty}

▶PERF

Non editable. Octave transpose of the corresponding track. To edit the octave transpose, go to the "Mixer/Tuning: Tuning" edit page (see page 84).

Sound name

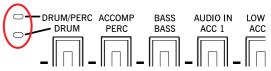
Name of the Sound assigned to the track. Touch a name a first time to select the corresponding track (detailed information are shown on the Selected Track Info area, see above). Touch it a second time to open the Sound Select window.

Volume panel

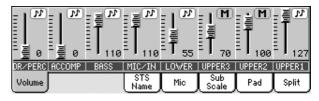
Press the Volume tab to select this panel. This is where you can set the volume of each track, and mute/unmute tracks.

Use the TRK. SEL. (TRACK SELECT) button to switch from Normal view (Keyboard and grouped Style tracks, Mic/In controls) to Style Tracks view (Style tracks).

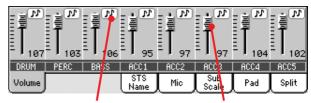
If the VOLUME LED over the SLIDER MODE button is turned on, the Assignable Sliders LEDs show which view is currently selected.



The *Normal view* shows grouped Style tracks, Mic/In controls, Keyboard tracks (upper sliders LED turned on):



The *Style Tracks view* shows individual Style tracks (lower sliders LED turned on):



Track status icon

Virtual slider

Virtual sliders (track volume)

▶PERF ▶PERF^{Sty} ▶STS

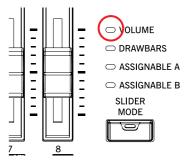
Virtual sliders are a graphical display of each track's volume. Use the Assignable Sliders to change this value (provided the VOL-UME LED is turned on above the SLIDER MODE button, see below).

As an alternative, press the track's area to select a track, and use TEMPO/VALUE controls to change the value.

Assignable Sliders function

▶PERF ▶STS

Use the SLIDER MODE button to select the function assigned to the Assignable Sliders. When the VOLUME LED is turned on, each Assignable Slider controls the volume of the corresponding track.



The assigned function may be saved to a Performance or STS. Therefore, when selecting a Performance or STS, the assigned function may change.

Track status icons

▶PERF ▶PERF^{Sty} ▶STS

[*]

Play/mute status of the current track. Select the track, then press the track area again to change its status.

Į	M

Play status. The track can be heard.

M

Mute status. The track cannot be heard.

Track names

Under the sliders, a label for each track is shown. Use the TRK. SEL button to switch between the various track views.

MIC/IN	Audio inputs. [*]
UPPER13	Upper tracks.
LOWER	Lower track.
ACCOMP	Grouped Accompaniment tracks. [*]
DR/PERC	Grouped Drum and Percussion tracks.
BASS	Bass Style track.
DRUM	Drum Style track.
PERC	Percussion Style track.
ACC15	Accompaniment Style tracks.

[*] Volume for these tracks is not memorized.

STS Name panel

Press the STS Name tab to select this panel. While in this panel, you can see the name of the four Single Touch Settings (STS) belonging to the latest selected Style or SongBook entry. Touch one of the names to select the corresponding STS.

STS 1 Steel Guitar	STS 2 Electric Piano	STS Distortio	n Organ	STS Electric C	_
Volume	STS Name	Mic	Sub Scale	Pad	Split

Note: You cannot edit STS names with this panel. To edit a name, select the STS to be renamed, then select the Write Single Touch Setting command from the page menu (see "Write Single Touch Setting dialog box" on page 96).

Mic panel

Press the Mic tab to select this panel. This is where you can turn on/off the various Voice Processor sections.

Harm/	Mod 🔽 Lead	V1	۷2	УЗ	۷4
Pitch	Thicken	Ffe Effe	cts	Talk	M
VP Preset:	🕨 002 - Cor	ncert Hall	Rvb	a	
Volume		STS Name	Mic Sc	ale Pad	Split

Harm/Mod (Harmony/Modeling)

► GBL^{VPp}

▶ GBL^{VPp}

Turns the Harmony or Modeling module on/off. (*The Modeling module is optional*).

Lead

Turns the Lead (singer's) voice on/off. This switch only works when the Harmony module is turned on. if it is turned off, the Lead voice will be always heard, whichever the status of this switch.

V1V4	► GBL ^{VPp}
V1V4	► GBL ^{VPp}

Turns each of the four Harmony voices on/off.

Pitch

Turns the Pitch Correct module on/off. (*The Pitch Correction module is optional*).

Thicken	► GBL ^{VPp}
Inicken	► GBL ^{VPp}

Turns the Thicken module on/off.

Effects

Talk

Turns the Effects module on/off.

► GBL^{TIk}

Check this switch to soften all music generated by the Pa1X, and speak on the microphone at normal level. This is useful to speak with your audience, while automatically lowering the background music volume.

While this switch is checked, all Voice Processor modules are momentarily turned off, except for Thicken and Reverb, whose level is simply reduced to avoid losing clarity on the voice. Setting for the Talk function can be programmed on the Talk page (see "Voice Processor Setup: Talk" on page 238).

Uncheck this switch to return to the original settings.

Mic Mute

Check this switch to completely mute the microphone input. This is the same as the MIC/IN Play/Mute icon in the Main page (see "Track status icons" on page 80).

VP Preset

▶PERF ▶STS

Use this pop-up menu to select one of the available Voice processor Presets. Selecting a Preset may change all the above parameters, as well as other Voice Processor parameters. Presets can be freely edited (see "Voice Processor Preset: Preset" on page 239).

► GBL^{VPp}

▶ GBL^{VPp}

VP lock icon

► GBL^{Gbl}

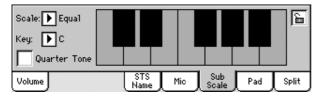
This lock avoids changing the Voice Processor Preset when selecting a different Performance, STS or SongBook entry. This is useful if you want to use the same Preset while selecting different Performances, STSs or SongBook entries.

This lock is reset when turning the instrument off, unless you write Global settings to memory (see "Write Global - Global Setup dialog box" on page 251).

For more information on parameter locks, see "General Controls: Lock" on page 227.

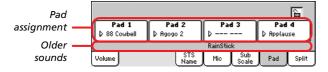
Sub-Scale panel

Press the Sub-Scale tab to select this panel. This panel replicates the "Mixer/Tuning: Sub Scale" edit page (see page 84).



Pad panel

Press the Pad tab to select this panel. This is where you can assign a different Hit or Sequence Pad to each of the four pads, and see at a glance how pads are programmed. For more options, go to the "Pad/Switch: Pad" page (see page 92).



Pad assignment



Name of the Hit or Sequence assigned to each Pad. Press the box to make the Pad Select window appear (see "Pad Select window" on page 73).

Older sounds



To warrant compatibility with data generated prior to OS version 2.0, the name of the older sounds assigned to the Pads is shown under each Pad assignment box. As soon as you select a new Hit or Sequence, the name of the older sound disappears.

Volume ... D Send



Volume, Pan, Send to the FX C and D values for each of the four Pads.

Pads lock icon

► GBL^{Gbl}

When locked, assignements to the pads remain unchanged when selecting a different Performance or STS.

This lock is reset when turning the instrument off, unless you write Global settings to memory (see "Write Global - Global Setup dialog box" on page 251).

For more information on parameter locks, see "General Controls: Lock" on page 227.

Split panel

Press the Split tab to select this panel. This is where you can set the split point and Chord Recognition mode.

Split Point Image: C4_	
Chord Recognition: 🕨 Fingered 1	6
Volume STS Mic Sub Pad	Split

Split Point

▶PERF ▶STS

Use this parameter to select a different split point. A full-range piano keyboard is shown in the display, divided at the selected split point. Upper tracks play on the right of this point, while the Lower track plays on the left.

Keyboard diagram

Touch anywhere on the keyboard diagram. A message will appear, asking you to press the new split point on the keyboard of your Pa1X (or to press the EXIT button to close the message with no changes).

Chord Recognition Mode

▶PERF ▶STS

This parameter allows you do decide how chords are recognized by the auto-accompaniment engine. Please note that when in Full or Upper Chord Scanning mode, the Fingered 3 mode is always selected, and you must always play at least three notes, to let a chord be recognized.

For more information on the various options, see "Chord Recognition Mode" on page 93.

Note: This parameter is the same you can find in the "Preferences: Style Preferences" page (see page 93).

Split Point and Chord Recognition lock icons

When locked, Split Point and Chord Recognition mode remain unchanged when selecting a different Performance or STS.

These locks are reset when turning the instrument off, unless you write Global settings to memory (see "Write Global - Global Setup dialog box" on page 251).

For more information on parameter locks, see "General Controls: Lock" on page 227.

Edit menu

From any page, press the MENU button to open the Style Play edit menu. This menu gives access to the various Style Play edit sections.

When in the menu, select an edit section, or press EXIT or STYLE PLAY to exit the menu and return to the main page. To return to the main page, you can also select the Main Page menu item.

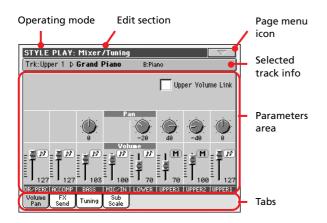
When in an edit page, press EXIT or the STYLE PLAY button to return to the main page of the Style Play operating mode.

STYLE PLAY Menu		
	Main Page	
Mixer Tuning	Effects	Track Controls
Keyboard Ensemble	Style Controls	Pad Assign.Switch
Preferences		

Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by pressing the corresponding tab on the lower part of the display.

Edit page structure

All edit pages share some basic elements.



Operating mode

This indicates that the instrument is in Style Play mode.

Edit section

This identifies the current edit section, corresponding to one of the items of the edit menu (see "Edit menu" on page 82).

Page menu icon

Press this icon to open the page menu (see "Page menu" on page 95).

Parameters area

Each page contains various parameters. Use the tabs to select one of the available pages. For detailed information on the various types of parameters, see sections starting from page 82.

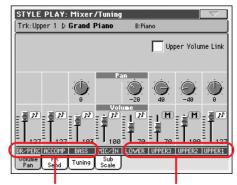
Tabs

Use tabs to select one of the edit pages of the current edit section.

Mixer/Tuning: Volume/Pan

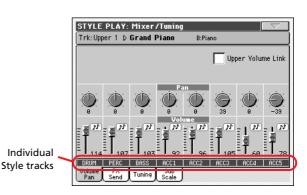
This page lets you set the volume and pan for each of the Keyboard or Style tracks. Volume settings are the same as in the Volume panel of the main page.

Use the TRK. SEL. button to switch from the Keyboard to the Style tracks, and vice versa.



Grouped Style tracks

Keyboard tracks



Upper Volume Link

► GBL^{Sty}

This parameter allows you to define if changing the volume for one of the Upper tracks, proportionally changes also the other Upper tracks.

Note: This parameter is the same you can find in the "Preferences: Global Setup" page (see page 94).

- On When changing volume to one of the Upper tracks, volume for the other Upper tracks changes in proportion.
- Off When changing volume to one of the Upper tracks, only that track's volume is changed. Other Upper tracks are left unchanged.

Pan

► PERF ► PERF^{Sty} ► STS

Track position in the stereo field.

L-64...L-1 Left stereo channel.

CO	Center.

R+1...R+63 Right stereo channel.

Off If the track's output status is Left&Right (normal setting), the direct (uneffected) signal is not sent to the outputs; only the FX signal is heard for this track.

If the track is sent to a separate output, no FX is sent to any output.

To program the output status for each track, see "Audio Output: Sty/Kbd" on page 233.

Volume

Track's volume.

0...127 MIDI value of the track's volume.

Play/Mute icon

▶PERF ▶PERF^{Sty} ▶STS

▶PERF ▶PERF^{Sty} ▶STS

Track's play/mute status.

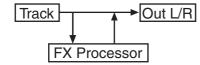
Play status. The track can be heard.

M

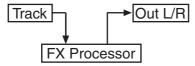
Mute status. The track cannot be heard.

Mixer/Tuning: FX Send

This page lets you set the level of the track's direct (uneffected) signal going to the Internal FX processors. The effect processors included in Pa1X are connected in parallel, so you can decide which percentage of the direct signal can be effected:



In case you do not want to send a track's direct signal to the output, but only the effected signal (as when using "insert" effects, like Rotary, Distortion, EQ...), just set the Pan to Off (see "Pan" above):



There are four Internal FX processors in Style Play mode (two for Keyboard and Pad tracks, two for Style tracks). You can assign them any kind of available effects, but we found it convenient to arrange them in the following way, for most of the Styles, STS and Performances included with the Pa1X:

- FX A Reverb processor for the Style tracks.
- FX B Modulating FX processor for the Style tracks.
- FX C Reverb processor for the Realtime (Keyboard) tracks.
- FX D Modulating FX processor for the Realtime (Keyboard) tracks.

Use the TRK. SEL. button to switch from Keyboard to Style tracks, and vice-versa.

STYLE	PLAY:	Mixer.	/Tuning				∇
Trk:Up	per 1 Þ	Grand I	Piano	B:Pia	ino		
		FX A P FX B S S S B S S S S S S S S S S S S S		FX C 60 FX D	FX C 78 FX D 24	FX C 58 FX D	FX C 52 FX D
DR#PERC Volume Pan	ACCOMP FX Send	BASS Tuning	MICZIN Sub Scale	M	UPPER3	M	UPPER1
STYLE Trk:Up		Mixer Grand I		B:Pia	ino		∇
		FX A PX B PX B O 0	Piano FX A 183 FX B 0 8	B:Piz B:Piz B:B FX B S:2 S:2	FX A 933 FX B 777	FX A 78 FX B 43	FX 8 118 FX 8 0 102
FX A 115 FX B	FX A FX A 111 FX B	FX A	FX A 103 FX B	B:Pia	FX A 93 FX B	FX B	FX B

Send level (A...D)

▶PERF ▶PERF^{Sty} ▶STS

▶PERF ▶PERF^{Sty} ▶STS

0...127 Level of the track (direct) signal sent to the effect processor.

Play/Mute icon

Track's play/mute status.

```
\mathbf{M}
```

M

Play status. The track can be heard. Mute status. The track cannot be heard.



Mixer/Tuning: Tuning

This page is where you can set the octave transpose and fine tuning for each track. Plus, you can program the Pitch Bend range for each track.

Use the TRK. SEL. button to switch from the Keyboard to the Style tracks, and vice-versa.



PB Sensitivity

▶PERF ▶PERF^{Sty} ▶STS

▶PERF ▶PERF^{Sty} ▶STS

▶PERF ▶PERF^{Sty} ▶STS

These parameters show the Pitch Bend range for each track, in semitones.

1...12Maximum up/down pitch bend range (in semi-
tones). $12 = \pm 1$ octave.

0 No pitch bend allowed.

Octave Transpose

This is the octave transpose value.

-3	Lowest octave.
0	Standard tuning.
+3	Highest octave.

Detune

This is the fine tuning value.

- -64 Lowest pitch.
- 00 Standard tuning.
- +63 Highest pitch.

Play/Mute icon

▶PERF ▶PERF^{Sty} ▶STS

Track's play/mute status.

- Play status. The track can be heard.
- Mute status. The track cannot be heard.

Mixer/Tuning: Sub Scale

This page lets you program an alternative scale for the tracks selected with the "Scale Mode" parameter (see page 93). The remaining tracks (if any) use the basic scale set in Global mode (see "Main Scale" on page 226).



Note: A different Scale can be associated to each Performance or STS.

Note: Quarter Tone selection can be received by MIDI (i.e., by an external sequencer or controller). Conversely, selection of Quarter Tone settings can be sent by the Pa1X to an external MIDI recorder as System Exclusive data.

Scale

▶PERF ▶STS

Selected scale. See "Scales" on page 375 for a list of the available scales. When selecting the User scale, the keyboard diagram on the right becomes active (see "How to fine tune each note of the User scale" below).

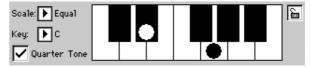
Key

▶PERF ▶STS

This parameter is needed by some scales to set the preferred key (see "Scales" on page 375).

Quarter Tone

Check the Quarter Tone parameter to make the keyboard diagram active. in the display, touch any note you want to lower a quarter tone, making a big dot appear on the note diagram. Touch the note again to make the dot disappear.



This control is momentary and not saved to memory, to allow for fast scale alteration while playing. You can assign the Quarter Tone function also to a footswitch, an EC5 switch or an Assignable Switch.

See below "How to use the Quarter Tone function with a footswitch, EC5 switch or Assignable Switch" for information on the use of this function.

Keyboard diagram

▶PERF ▶STS

When Quarter Tone is checked, or a User scale is selected, this diagram allows you to modify each note's pitch.

Scale lock icon

▶ GBL^{Gbl}

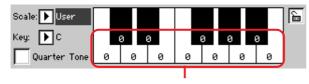
When locked, Scale parameters remain unchanged when selecting a different Performance or STS.

This lock is reset when turning the instrument off, unless you write Global settings to memory (see "Write Global - Global Setup dialog box" on page 251).

For more information on parameter locks, see "General Controls: Lock" on page 227.

How to fine tune each note of the User scale

When the User scale is selected, the keyboard diagram becomes active. You can then change each note tuning in cents of a semitone (within a range of ± 99 cents, referred to Equal tuning). This way, you can create a custom scale, you can save to a Performance or STS.



Fine tuning values

After selecting the User scale, touch a note in the keyboard diagram, and use TEMPO/VALUE controls to adjust the selected note tuning in cents.

How to use the Quarter Tone function with a footswitch, EC5 switch or Assignable Switch

The Quarter Tone function allows you to program a custom scale in realtime, for example those sudden scale change typical of Arabic music. Changes are not saved anywhere, so the scale is easily "wiped-out" when selecting a different Performance or STS, or when pressing the Quarter Tone pedal again.

Note: You can create a custom scale, to be assigned to a Performance or STS, simply by selecting and editing a User scale, and saving any change to a Performance or STS. See "Scale" above.

You can assign the "Quarter Tone" function to a footswitch, a Korg EC5 switch, or an Assignable Switch.

1. Program a footswitch, one of the EC5 pedals, or an Assignable Switch, to be the Quarter Tone switch.

Simply go to the Global mode, and reach the "Controllers: Pedal/Switch" or "Controllers: EC5" page. There, you will find the "Pedal/Footswitch" and "EC5-A...E" parameters, to which you can assign the Quarter Tone function.

While still in Global mode, select the Write Global-Global Setup command from the page menu, to save these settings to the Global (see "Write Global - Global Setup dialog box" on page 251).

2. Lower some note pitches.

Keep the Quarter Tone pedal pressed. The keyboard will not play at this time. Press the notes you want to lower a quarter tone. Release the pedal.

3. Play with your new scale.

Notes you pressed on step 2 are now lowered of a quarter tone.

4. Reset the original scale.

Press and release the Quarter Tone pedal again, without playing any note. All pitches will be reset, and the scale selected by the Performance, STS will be recalled.

Effects: FX Select

This page allows you to select the A/B (Style) and C/D (Keyboard and Pads) effects.

STYLE PLAY: Effects	
A/B FX Group (Style Tracks)	
Send A FX A 下 53: Reverb Smooth Hall	t
Vet/Dry: 27:73	; B to A: 0 L/Mono
Send B FX B 16: Chorus	Right
Vet/Dry: _50:50	Mod.Track: Off
-C/D FX Group (Real Time Tracks)	
Send C FX C 🕨 53: Reverb Smooth Hall	t t
Vet/Dry: 20:80	: D to C: 0 L/Mono
Send D FX D 🕨 16: Chorus	Right
	Mod.Track: Upper1
FX Select FX A FX B FX C FX D	J

FX A...D

▶PERF ▶PERF^{Sty} ▶STS

▶PERF ▶PERF^{Sty} ▶STS

Effects assigned to the corresponding effect processors. Usually, A and C are reverbs, while B and D are modulating effects (chorus, flanger, delay...). For a list of the available effects, see "Effects" on page 322.

Effects from A to D can be saved to a Performance. Effect A/B (Style tracks) can be saved to a Style Performance. Effects C/D (Keyboard and Pad tracks) can be saved to an STS.

Wet/Dry

Mix between the effected (Wet) and direct (uneffected, Dry) signal.

Dry	Direct signal only.
Wet	Effected signal only.
nn:nn	Percentage of Wet/Dry signal.

B to A, D to C

▶PERF ▶PERF^{Sty} ▶STS

Amount of the B effect going back to the input of the A effect, or of the D effect going back to the input of the C effect.

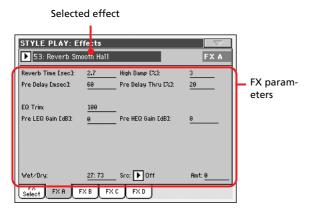
Mod.Track (Modulating Track)

▶PERF ▶PERF^{Sty} ▶STS

Source track for modulating MIDI messages. You can modulate an effect parameter with a MIDI message generated by a physical controller.

Effects: FX A...D

These pages contain the editing parameters for the four effect processors. Here is an example of the FX A page, with the Reverb Smooth Hall effect assigned.



Selected effect

▶PERF ▶PERF^{Sty} ▶STS ▶STS^{SB}

Select one of the available effects from this pop-up menu. This is equivalent to the "FX A...D" parameters found in the "Effects: FX Select" page (see above).

Note: Effects can be different for each of the four editing pages.

FX parameters

▶PERF ▶PERF^{Sty} ▶STS ▶STS^{SB}

Parameters may be different, depending on the selected effect. See "Effects" on page 322 for a list of available parameters for each effect type.

Wet/Dry

▶PERF ▶PERF^{Sty} ▶STS ▶STS^{SB}

Mix between the effected (Wet) and direct (uneffected, Dry) signal. This is the same as the "Wet/Dry" parameters found in the "Effects: FX Select" page (see above).

Src (Source)

▶PERF ▶PERF^{Sty} ▶STS ▶STS^{SB}

Modulation source. To select the track generating this message, see the "Mod.Track (Modulating Track)" parameters found in the "Effects: FX Select" page (see above). For a list of modulation source, see the "Effects" chapter.

Track Controls: Mode

This page lets you connect each track to the internal sound generator and to external MIDI devices. This is very useful to let a Style track drive an external expander, or play a digital piano with one of Pa1X's Keyboard tracks. In addition, here you can set the polyphony mode for each track.

STYLE	PLAY:	Track	Control	\$			∇
Trk:Up	per1⊅	Grand I	Piano	B:Pia	no		
			Int.	'Ezt.			
		Both		Both	Both	Both	Both
		Poly	Ту	Pe Poly	Poly	Poly	Poly
		M	M	M	M	M	M
DR#PERC Mode	ACCOMP Drum Volume	BASS Easy Edit	MICZIN	LOWER	UPPER3	UPPER2	UPPER1
STVLE	PLAY:	Track	Control	9		[
	per 1 Þ			B:Pia	no		
			Int.	Ezt.			
Both	Both	Both	Both	Both	Both	Both	Both
			Ту	pe			
Drum		Poly	Poly	Poly	Poly	Poly	Poly
M		M	M	M	M	M	M
						<u> </u>	
DRUM	PERC	BASS Easy Edit	ACC1	ACC2	ACC3	ACC4	ACC5

Int./Ext. (Internal/External)

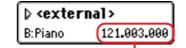
▶PERF ▶PERF^{Sty} ▶STS

Internal The track plays the sounds generated by the internal sound engine. It does not play an external instrument connected to the MIDI OUT.

External The track plays an external instrument connected to the MIDI OUT. The connected device must receive on the MIDI channel associated with this track on the Pa1X (see "MIDI: MIDI Out Channels" on page 232).

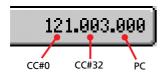
A track set to this status does not play the internal sounds, therefore saving polyphony.

Instead of the assigned Sound name, the <**external**> remark is shown on a track's area in the Main page:



Control Change/Program Change area

If the "Show Program Change name" is checked (see page 228), a strings of transmitted Control Change and Program Change data is shown next to the <external> remark. This will let you know what the track is transmitting to the MIDI OUT. In the following example, CC#0 is the Control Change 0 (Bank Select MSB), CC#32 is the Control Change 32 (Bank Select LSB), PC is the Program Change:



When touching the Sound area, the numeric keypad appears, instead of the Sound Select window. You can enter the Control Change/Program Change bundle shown above, separating the three parts with a dot (.). If entering just one of the three numbers, a Program Change message is sent.

Both The track plays both the internal sounds and an external instrument connected to the MIDI OUT.

Type ►PERF ►PERF^{Sty} ►STS

Drum Drum/Percussion track. Set a track to Drum mode if you wish to separately adjust the volume and set a different output for each percussive family of the assigned Drum Kit Sound. (See "Track Controls: Drum Volume" on page 87, and "Audio Output: Sty/Kbd" on page 233).

> **Note:** Tracks set to Drum or Percussion mode, while in Style Record (see "Track Type" on page 117), cannot be edited here. This option appears in grey. Other Style tracks cannot be set to Drum mode here.

> > ▶PERF ▶PERF^{Sty} ▶STS

- Poly Tracks of this kind are polyphonic, i.e. they can play more than one note at the same time.
- Mono Tracks of this kind are monophonic, i.e. each new note stops the previous note.
- Mono Right A Mono track, but with priority assigned to the rightmost (highest) note.

Play/Mute icon

Track's play/mute status.

N	Play status. The track can be heard.



Mute status. The track cannot be heard.

Track Controls: Drum Volume

In this page you can adjust the volume for each *family* of Drum and Percussion instrument for the selected track. A list of families is shown below.

These parameters can be accessed only on tracks set in Drum mode (see above). Use them on tracks with a Drum Kit assigned, or you will not be able to hear any change.

Note: All values are referred to the value of the original Sounds.



Drum families

▶PERF ▶PERF^{Sty} ▶STS

Reference

Kick drums volume.	
Snare drums volume.	
Toms volume.	
Hi-Hat volume.	
Ride, Crash and other cymbals volume.	
Low-pitched percussions volume.	
High-pitched percussions volume.	
Special effects volume.	

Select

Use these buttons to select the track to edit.

Reset Track

Press this button to reset all changes to percussive instrument volumes in the selected track.

Reset All Tracks

Press this button to reset all changes to percussive instrument volumes in all tracks.

Play/Mute icon

▶PERF ▶PERF^{Sty} ▶STS

Track's play/mute status.

Play status. The track can be heard.

Mute status. The track cannot be heard.

How to adjust volume for a single Drum Family

Here is a quick example of the use of the Drum Volume function.

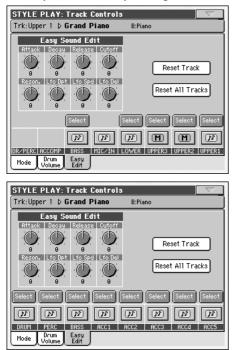
- 1. While in this page, press TRK. SEL. to see individual Style tracks.
- 2. Press the Select button, in the display, above the Drum track.
- 3. Press START/STOP to let the Style go.
- 4. While listening to the Style, select the Cymb. knob, and use TEMPO/VALUE controls to turn the volume completely off.

You'll notice how all cymbals stops sounding.

5. Press the Reset Track button in the display to recall the original cymbals volume.

Track Controls: Easy Edit

In this page you can edit the main parameters of the Sounds assigned to each track.



Note: All values refer to the value of the original Sound.

Parameters

Attack

▶PERF ▶PERF^{Sty} ▶STS

- Attack time. This is the time during which the sound goes from zero (at the moment when you strike a key) to it's maximum level.
- Decay Decay time. Time to go from the final Attack level to the beginning of the Sustain.

Release	Release time. This is the time during which the sound goes from the sustaining phase, to zero. The Release is triggered by releasing a key.
Cutoff	Filter cutoff. This sets the sound brightness.
Resonance	Use the Filter Resonance to boost the cutoff fre- quency.
LFO Depth	Intensity of the Vibrato (LFO).
LFO Speed	Speed of the Vibrato (LFO).
LFO Delay	Delay time before the Vibrato (LFO) begins, after the sound starts.

Select

Use these buttons to select the track to edit.

Reset Track

Press this button to reset all changes to Sound parameters in the selected track.

Reset All Tracks

Press this button to reset all changes to Sound parameters in all tracks.

Play/Mute icon

▶PERF ▶PERF^{Sty} ▶STS

Track's play/mute status.

- Play status. The track can be heard.
- Mute status. The track cannot be heard.

How to adjust sound parameters for a single Sound

Here is a quick example of the use of the Easy Sound Edit function.

- 1. If needed, while in this page press TRK. SEL. to see Keyboard tracks.
- 2. Press the Select button, in the display, above the Upper 1 track.
- 3. While playing on the keyboard to hear the Sound, select the Cutoff knob, and use TEMPO/VALUE controls to turn its value completely off.

You'll notice how the filter progressively cuts out high frequencies, making the sound darker and mellower.

4. Press the Reset Track button in the display to recall the original Cutoff value.

Keyboard/Ensemble: Keyboard Control

This page lets you enable/disable the Damper and Expression pedals, plus the Joystick, for each of the Keyboard tracks.



Damper

▶PERF ▶STS

- On When you press the Damper pedal and release the keys, the track's sound is kept sustained.
- Off The Damper pedal is not active on any track set to this status.

Joystick X PERF >STS

This enables/disables the left/right movement of the Joystick (Pitch Bend, and sometimes a Sound parameter's control; for Pitch Bend settings, see "Mixer/Tuning: Tuning" on page 84).

Joystick Y

▶PERF ▶STS

This enables/disables the front/rear movement of the Joystick (Y+: Modulation, and sometimes a different Sound parameter's control; Y-: Various controls, or non-active).

Expression

▶PERF ▶STS

▶PERF ▶STS

This parameters allows you to switch the Expression control on/ off on each individual Keyboard track. The Expression control is a relative level control, always subtracted from the Volume value of the track.

As an example, imagine you have a Piano sound assigned to Upper 1, and a Strings sound assigned to Upper 2. If you turn the Expression switch on on Upper 2, and off on Upper 1, you can use a continuous pedal to control only the Strings' volume, while the Piano remains unchanged.

To program a pedal or Assignable Slider to act as an Expression control, see "Controllers: Pedal/Switch" on page 229 or "Controllers: Assignable Sliders" on page 229. You can only assign this function to a volume-type pedal, not to a switch-type one. Assign the "KB Expression" option to the pedal or Assignable Slider, then select Write Global-Global Setup from the page menu to save the setting to the Global.

Play/Mute icon

Track's play/mute status.

Play status. The track can be heard.



Mute status. The track cannot be heard.

Keyboard/Ensemble: Key/Velocity Range

This page lets you program a key and dynamic (velocity) range for each of the Keyboard tracks.

Key range is useful to create a set of Keyboard tracks playing in different zones of the keyboard. For example, you may have french horns and woodwinds playing in the center range of the keyboard, while only woodwinds play on the higher range.

Velocity range is useful to create a sound made of up to three dynamic layers, assigning each of the Upper tracks to a different dynamic range.

As an example, you may assign the El.Piano 1 Program to the Upper 1, and the El.Piano 2 Program to the Upper 2 track. Then, set Upper 1 to [Bottom=0, Top=80], and Upper 2 to [Bottom=81, Top=127]. The El.Piano 1 will play when playing softer, the El.Piano 2 when playing louder.

STYLE PLAY: Keyboard/Ensemble			∇
Trk:Upper 1 ▷ Grand Piano B	:Piano		
Upper Tracks Key & Velocity Rang	e	Top Key	
	_C8	C8	C8
	В	otto n K	ey
	A0	_A0	_A0
		Top Vel.	
	127	127	127
	Be	ottom Ve	èl.
	0	0	0
m m m	m	M	M
DR_PERC ACCOMP BASS MIC/IN LOW Kbd Key Ensem- Control Velocity ble	ER UPPER3	UPPER2	UPPER1

Top/Bottom Key (Key Range)

This parameter pair sets the Top and Bottom key range for the track.

C-1...G9 Selected key.

Top/Bottom Vel. (Velocity Range)

This parameter pair sets the Top and Bottom dynamic range for the track.

- 0 Lowest velocity value.
- 127 Highest velocity value.

Play/Mute icon

Track's play/mute status.

Play status. The track can be heard.

(M)

Mute status. The track cannot be heard.

▶PERF ▶STS

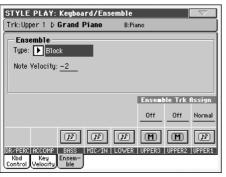
▶PERF ▶STS

▶PERF ▶STS

Keyboard/Ensemble: Ensemble

This page lets you program the Ensemble function. This function harmonizes the right-hand melody (played in realtime) using the recognized chords of the left-hand.

Note: The Ensemble function only works in Style Play mode, with the Split Keyboard Mode.



Ensemble

▶PERF ▶STS

- Harmonization type.
- DuetAdds a single note to the melody.CloseAdds a closed-position chord to the melody.Open 1Adds an open-position chord to the melody.Open 2As the above, but with a different algorithm.

Block Block harmonization – very typical of jazz music.

Power Ensemble

Adds a fifth and an octave to the melody, as heard in hard rock.

- Fourths LO Typical of jazz, this option adds a perfect fourth and a minor seventh under the melody.
- Fourths UP As the above, but with notes added over the melody.
- Fifths This adds a series of Fifths below the original note.
- Octave Adds one or more octaves to the melody.
- Dual This option adds to the melody line a second note, at a fixed interval set with the "Note" parameter. When selecting this option, a transposition value appears (-24...+24 semitones to the original note).
- Brass Typical Brass section harmonization.
- Reed Typical Reed section harmonization.
- Trill When two notes are played on the keyboard, this option trills them. If three or more notes are played, only the last two are trilled. You can set the trill speed by using the Tempo parameter (see below).
- Repeat The played note is repeated in sync with the Tempo parameter (see below). When playing a chord, only the last note is repeated.

Echo

As the Repeat option, but with the repeated notes fading away after the time set with the Feedback parameter (see below).

Note Velocity

This parameter sets the velocity difference between the righthand melody and the added harmonization notes.

-10...0 Subtracted velocity value.

Tempo

Note: This parameter only appears when the Trill, Repeat or Echo options are selected.

Note value for the Trill, Repeat or Echo Ensemble options. This is in sync with the Metronome Tempo.

Feedback

Note: This parameter only appears when the Echo option is selected.

This parameter sets how many times the original note/chord is repeated by the Echo option.

Ensemble Track Assign

Use these parameters to separately set Upper tracks for the Ensemble function.

- Off There is no harmonization on this track.
- Normal This track is included in the harmonization.
- Mute This track only plays the Ensemble notes, but not the original note.

Play/Mute icon

Track's play/mute status.

Play status. The

Play status. The track can be heard.

M

Mute status. The track cannot be heard.

▶PERF ▶STS

▶PERF ▶STS

▶PERF ▶STS

▶PERF ▶STS

▶PERF ▶STS

Style Controls: Drum/Fill

In this page you can select various general parameters for the Style.

STYLE PLAY: Controls Trk:Upper 1 D Grand Pia B:Pia Drum Mapping Var.1: 🕨 Off Var.3: 🕨 Off Var.2: 🕨 Off Var.4: 🕨 Off Kick and Snare Designation Kick: 🕨 Off Snare: 🕨 Off Fill Mod 6 1: 🕨 Off 2: 🕨 Off 3: 🕨 Off w w w w w w DRUM PERC B L 8001 L 8002 L 8003 L 8004 L 8005

Drum Mapping (Var.1...Var.4)

▶PERF ▶PERF^{Sty}

The Drum Mapping lets you select an alternative arrangement of percussive instruments for the selected Drum Kit, without any additional programming. Just select a Drum Map, and some percussive instruments will be replaced with different instruments.

Off Standard mapping.

Drum Mapping 1...7

Drum Map number. Mapping 1 is "soft-sounding", while mapping 7 is "loud-sounding".

Kick and Snare Designation

▶PERF ▶PERF^{Sty}

The Kick Designation replaces the original Kick (Bass Drum) sound with a different Kick of the same Drum Kit, while the Snare Designation replaces the original Snare Drum sound with a different Snare of the same Drum Kit.

Hint: Select different Designations while listening to the Style, and see how they affect the Style. When you like the result, save your setting to a Performance or Style Performance.

Off Original Kick or Snare.

Type 1...3 Kick or Snare replacing the original one.

Fill Mode (1...3)

▶PERF ▶PERF^{Sty}

These parameters set a Variation to be automatically selected at the end of each of the three available Fills (1...3).

- Off The same Variation, playing before selecting a Fill, will be selected again.
- V1&V2 ... V3&V4

The specified Variations will be alternatively selected. For example, with the "V1&V2" option, Variation 1 and Variation 2 will be alternatively selected after the end of the Fill.

Var.Up/Var.Down

The next higher/lower numbered Variation is selected, in cycle. After Variation 4, an Up command will select Variation 1. After Variation 1, a Down command will select Variation 4.

Var.Inc/Var.Dec

The next higher/lower numbered Variation is

selected. When Variation 4 is reached, an Inc command will select Variation 4 again. When Variation 1 is reached, a Dec command will select Variation 1 again.

To Var.1...To Var.4

"Fill to Variation" (->1, ->2, ->3, ->4) automatically selects one of the four available Style Variations at the end of the fill.

▶ GBL^{Gbl}

▶PERF ▶PERF^{Sty}

Fill Mode lock icon

This lock prevents the Fill Mode being changed when selecting a different Performance or Style.

This lock is reset when turning the instrument off, unless you write Global settings to memory (see "Write Global - Global Setup dialog box" on page 251).

For more information on parameter locks, see "General Controls: Lock" on page 227.

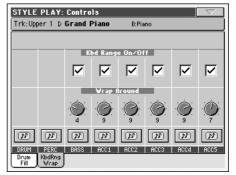
Track status

Track play/mute status. Press these icons to change it.

Play status. The track can be heard.Mute status. The track cannot be heard.

Style Controls: Keyboard Range On/Off / Wrap Around

In this page you can program the Wrap Around point, and turn on/off the Keyboard Range included in each Style tracks.



Keyboard Range On/Off

▶PERF ▶PERF^{Sty}

This parameter is an on/off switch for the Key Range parameter memorized into each Style Element track.

- On The Keyboard Range is considered provided it has been programmed (see "Style Element Track Controls: Keyboard Range" on page 116 in Style Record mode). When a track goes over the lower or higher Keyboard Range point, it is automatically transposed, to stay in the programmed range.
- Off No Keyboard Range used.

Wrap Around

▶PERF ▶PERF^{Sty}

The wrap-around point is the highest register limit for the backing track. The accompaniment patterns will be transposed according to the detected chord. If the chord is too high, the Style tracks might play in a register that is too high, and therefore unnatural. If, however, it reaches the wrap-around point, it will be automatically transposed an octave lower.

The wrap-around point can be individually set for each track in semitone steps up to a maximum of 12 semitones, relative to the chord root set in Style Record mode (see "Key/Chord" on page 104).

It is advisable to set different Wrap Around points for each track, to avoid all tracks "jump" to a different octave at the same time.

Maximum transposition (in semitones) of the 1...12 track, referred to the original key of the Style pattern.

Play/Mute icon

▶PERF ▶PERF^{Sty}

Track's play/mute status.

 \mathbb{N} Play status. The track can be heard.

 (\mathbf{M}) Mute status. The track cannot be heard.

Pad/Switch: Pad

This page lets you select a different sound for each of the four PAD buttons.

STYLE PLAY: Pad/Assign.Switch Pad E Pad Pad 2 Pad 3 Pad 4 assignment Applause Older sounds Volume: 110 | Volume: 110 | Volume: 110 | Volume: 110 C 00 Pan: C 00 Pan: C 00 Pan: C 00 Pan C Send: 80 C Send: 80 C Send: 80 C Send: 80 D Send: Ø D Send: Ø D Send: Ø D Send: 0 Pad Switch

Note: You can also assign different Sounds from the Pad panel of the main page.

Pad assignment

▶PERF ▶STS ▶STS^{SB}

Name of the Hit or Sequence assigned to each Pad. Press the box to make the Pad Select window appear (see "Pad Select window" on page 73).

Older sounds

▶PERF ▶STS ▶STS^{SB}

To warrant compatibility with data generated prior to OS version 2.0, the name of the older sounds assigned to the Pads is shown under each Pad assignment box. As soon as you select a new Hit or Sequence, the name of the older sound disappears.

Volume

▶PERF ▶STS Volume for each of the four Pad tracks.

Pan

Pan for each of the four Pad tracks.

-64...-1 Left stereo channel. 0 Center. +1...+63

C Send

Send level to the C Internal FX processor (usually reverb) for each of the four Pad tracks.

D Send

Send level to the D Internal FX processor (usually modulating effect) for each of the four Pad tracks.

Pad lock icon

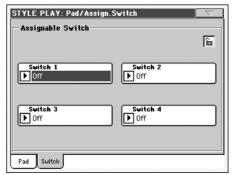
This lock avoids selecting a different Performance or STS changes also the Hit or Sequence Pads assigned to the Pads.

This lock is reset when turning the instrument off, unless you write Global settings to memory (see "Write Global - Global Setup dialog box" on page 251).

For more information on parameter locks, see "General Controls: Lock" on page 227.

Pad/Switch: Assignable Switch

This page lets you select a different function for each of the four ASSIGN. SWITCH buttons.



Switch 1...4

▶PERF ▶STS

► GBL^{Gbl}

Each of the four ASSIGN. SWITCH buttons. Use these pop-up menus to assign a function to each switch. See "List of Assignable Switches functions" on page 373.

Assignable Switch lock icon

This lock avoids selecting a different Performance or STS changes also the functions assigned to the switches.

This lock is reset when turning the instrument off, unless you write Global settings to memory (see "Write Global - Global Setup dialog box" on page 251).

For more information on parameter locks, see "General Controls: Lock" on page 227.

▶PERF ▶STS

Right stereo channel.



▶ GBL^{Gbl}

▶PERF ▶STS

Preferences: Style Preferences

In this page you can set various general parameters for the Style play mode. Settings can be saved to a Performance, or STS.

STYLE PLAY: Preferences	
Style Preferences Chord Recognition: Fingered 1	
Velocity Control: Dff	
Scale Mode: 🕨 Keyboard Tracks	
Memory Mode: D Chord	
5	
Style Global Pref. Setup	

Chord Recognition Mode

▶PERF ▶STS

This parameter defines how chords are recognized by the autoaccompaniment engine. Please note that when in Full or Upper Chord Scanning mode, the Fingered 3 mode is always selected, and you must always play at least three notes, to let a chord be recognized.

Note: This parameter is the same you can find in the main page (see "Split panel" on page 81).

- Fingered 1 Play one or more notes, according to the selected Chord Scanning Mode. A full Major chord will be recognized even if only a single note is played.
- Fingered 2 You must always play three or more notes for a full chord to be recognized. If you play just one note, a unison will be played. If you play a suspended chord (a root+5th), a suspended chord will be played. The full chord will be recognized when you play three or more notes.
- Fingered 3 You must always play three or more notes for a chord to be recognized. This option is automatically selected when selecting the FULL Chord Scanning mode.
- One Finger You can also compose a chord using a simplified chord playing technique:

• If you play only one note, a Major chord is recognized.

• Play the root note, plus a white key on the left, for a 7th. For example, play C3 + B2 for a C7.

• Play the root note, plus a black key on the left, for a Minor chord. For example, play C3 + Bb2 for a C minor.

• Play the root note, plus a white and a black key on the left, for a Minor 7th. For example, play C3 + B2 + Bb2 for a C min 7.

Velocity Control



Set this parameter to trigger one of the following functions simply by playing louder with your left hand. When playing with a velocity value higher than the value set by the "Velocity Control Value" parameter (see page 94), the selected function will be activated. • This function only works in SPLIT Keyboard Mode, with the LOWER or no Chord Scanning mode selected.

• It does not work in FULL Chord Scanning mode, or in SPLIT Keyboard Mode, with the UPPER Chord Scanning mode selected.

Off The function is turned off.

Break, Fill In 1, Fill In 2

When playing with a velocity higher than the trigger value on the Lower track, the selected element is automatically triggered.

Start/Stop You can start or stop the Style by playing harder on the keyboard.

Bass Inversion

When playing with a velocity higher than the trigger value, the Bass Inversion function will be activated.

▶PERF ▶STS

▶PERF ▶STS

▶ GBL^{Gbl}

Memory When playing with a velocity higher than the trigger value, the Memory function will be activated.

Scale Mode

This parameter defines which tracks are affected by the selected alternative scale (see "Scale" on page 84).

Keyboard tracks

The scale will only affect Keyboard tracks.

- Upper tracks The scale will only affect Upper 1-3 Keyboard tracks.
- All Tracks The scale will affect all tracks (Keyboard, Style, Pads).

Memory Mode

This parameter sets the way the MEMORY button works.

Chord When its LED is on, the MEMORY button keeps the recognized chord in memory. When its LED is off, the chord is reset when raising the hand from the keyboard.

Chord + Lower

When its LED is on, the MEMORY button keeps the recognized chord in memory, and keeps the Lower track held until the next note or chord is played. When its LED is off, the chord is reset when raising the hand from the keyboard, and the Lower track is not sustained.

Fixed Arr. + Lower

When its LED is on, the MEMORY button keeps the Lower track held until the next note or chord is played. When off, the Lower track is not sustained when raising the hand from the keyboard. The chord is always kept in memory.

Lock icon

All parameters in this page may be protected from selecting a different Performance or STS.

Reference

This lock is reset when turning the instrument off, unless you write Global settings to memory (see "Write Global - Global Setup dialog box" on page 251).

For more information on parameter locks, see "General Controls: Lock" on page 227.

Preferences: Global Setup

In this page you can set various general parameters for the Style Play mode.

STYLE PLAY: Preferences		
Global-Style Play Setup		
Midi Setup: 🕩 Ø1 Default		
Performance/Sound Default: Derformance		
Velocity Control Value: 95		
Upper Volume Link		
Variation/STS Link Bass & Lower Backing		
Style Style Pref. Setup		

Note: These settings are stored in the Style Play Setup area of the Global file (together with all the other parameters marked with the

▶ GBL^{Sty} abbreviation through the manual). After changing these settings, select the Write Global-Song Play Setup command from the page menu to save them to the Global.

Midi Setup

► GBL^{Sty}

MIDI channels for the Style Play mode can be automatically configured by selecting a MIDI Setup with this parameter. See "MIDI" on page 273 for more information on using MIDI Setups.

Note: To automatically select a MIDI Setup when entering the Style Play mode, select the Write Global-Style Setup command from the page menu.

For detailed information on MIDI Setup settings, see "MIDI Setup" on page 321.

Note: After selecting a MIDI Setup, you can go to the Global mode and apply any change to each channel setting. To store these changes to a MIDI Setup, while still in Global mode select the Write Global-Midi Setup command from the page menu. All MIDI Setup can be freely customized and overwritten.

Hint: To restore the original MIDI Setups, load the original Factory data again (downloadable from <u>www.korgpa.com</u>).

Performance/Sound Default

► GBL^{Sty}

► GBL^{Sty}

Performance banks and Sound banks share the same buttons on the control panel. Use this parameter to define whether the PER-FORMANCE SELECT or the SOUND SELECT LED must be on when you turn the instrument on.

Velocity Control Value

Use this parameter to set a velocity value over which to automatically trigger the Style Start/Stop or select a Style Element (see "Velocity Control" above).

Upper Volume Link

▶ GBL^{Sty}

▶ GBL^{Sty}

This parameter allows you to define if changing the volume for one of the Upper tracks, proportionally changes also the other Upper tracks.

- On When changing volume to one of the Upper tracks, volume for the other Upper tracks changes in proportion.
- Off When changing volume to one of the Upper tracks, only that track's volume is changed. Other Upper tracks are left unchanged.

Variation/STS Link

This parameter makes each Variation recall the corresponding STS. It only works when the SINGLE TOUCH function is engaged.

- Off Selecting a Variation doesn't automatically recalls any STS.
- On If the SINGLE TOUCH LED is turned on, selecting a Variation automatically recalls the corresponding STS, i.e., Variation #1 recalls STS #1, Variation #2 recalls STS #2, and so on. However, if the SINGLE TOUCH LED is turned off, no STS is automatically recalled.

Note: You can turn this parameter on or off by means of the SHIFT + SINGLE TOUCH shortcut.

Bass & Lower Backing

► GBL^{Sty}

When the SPLIT Keyboard Mode is selected, and the Style is not running, this function lets you play a simple accompaniment with your left hand.

On If the Style is not playing, and you play chords with your left hand, the Sound assigned to the Lower track plays chord notes (even if the Lower track is muted), and a Bass sound plays the chord root. When you start the Style, the normal behavior is restored.

> When the Bass&Lower Backing function is active, the Play/Mute status icon of the Lower track is framed in yellow (see "Keyboard track status" on page 78).

Off If the Style is not playing, and the Lower track is muted, no sound can be heard when you play with your left hand. If the Lower track is set to play, you can hear the sound assigned to the Lower track.

Page menu

Press the page menu icon to open the menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.



Write Performance

Select this command to open the Write Performance dialog box, and save most of the current control panel settings to a Performance.

See "Write Performance dialog box" on page 95 for more information.

Write Single Touch Setting

Select this command to open the Write Single Touch Setting (STS) dialog box, and save Keyboard track settings to one of the Single Touch Settings (STS) of the current Style.

See "Write Single Touch Setting dialog box" on page 96 for more information.

Write Current Style Performance

Select this command to open the Write Current Style Performance dialog box, and save Style track settings to the Style Performance of the current Style.

See "Write Single Touch Setting dialog box" on page 96 for more information.

Write Global-Style Setup

Select this command to open the Write Global-Style Setup dialog box, and save global settings that are unique to the Style Play mode. These settings are programmed on the "Preferences: Global Setup" page (see page 94).

See "Write Global-Style Play Setup dialog box" on page 96 for more information.

Solo Track

Select the track to be soloed, and check this item. You will hear only the selected track, and the 'Solo' warning will flash on the page header.

Uncheck this item to exit the Solo function.

The Solo functions works in a slightly different way, depending on the selected track:

• *Keyboard track:* The selected Keyboard track is the only track you can hear when playing on the keyboard. All other Keyboard tracks are muted. The status of the Style tracks is unaffected.

• *Style track:* The selected track is the only Style track you can hear. All other Style tracks are muted. The status of the Keyboard tracks is unaffected.

Write Performance dialog box

Open this window by selecting the Write Performance item from the page menu. Here, you can save all track settings, the selected Style number, various Style settings, and the selected Voice Processor Preset, to a Performance.

	Write Performance
Name:	T StereoGrand
	То
Perf. Bank:	01 - Piano
Performance	: 01- StereoGrand
Cano	el OK

Parameters saved in the Performance are marked with the **>PERF** symbol through the user's manual.

Name

Name of the Performance to be saved. Press the **T** (Text Edit) button next to the name to open the Text Edit window.

Perf Bank

Target bank of Performances. Each bank corresponds to one of the PERFORMANCE/SOUND buttons. Use TEMPO/VALUE controls to select a different bank.

Performance

Target Performance location in the selected bank. Use TEMPO/ VALUE controls to select a different location.

Select... button

Press this button to open the Performance Select window, and select a target location.

Write Single Touch Setting dialog box

Open this window by selecting the Write Single Touch Setting item from the page menu. Here, you can save Keyboard track settings, and the selected Voice Processor Preset, to one of the four single Touch Settings (STS) belonging to the current Style.

₩rite Single Touch Setting (STS)		
Name: <u>T</u> Nylon Gtr		
То		
Current Style: Folk Ballad		
STS: 01 Nylon Gtr		
Cancel OK		

Parameters saved in the STS are marked with the **STS** symbol through the user's manual.

Name

Name of the STS to be saved. Press the **T** (Text Edit) button next to the name to open the Text Edit window.

Current Style

Non editable. Settings are saved in one of the four STSs belonging to the current Style. This parameter displays the name of the "parent" Style.

STS

Target STS location. The name of the STS currently saved at the target location is shown. Use TEMPO/VALUE controls to select a different location.

Write Style Performance dialog box

Open this window by selecting the Write Style Performance item from the page menu. Here, you can save Style track settings to the Style Performance of the current Style.

Write Style Performance			
То			
Style Bank:	03 —Ballad		
Current Style:	04 – Folk Ballad		
Cancel	ОК		

Parameters saved in the Style Performance are marked with the >PERF^{Sty} symbol through the user's manual.

Style Bank

Non editable. Bank of Styles the current Style belongs to. Each bank corresponds to one of the STYLE buttons.

Current Style

Non editable. Name of the current Style.

Write Global-Style Play Setup dialog box

Open this window by selecting the Write Global-Style play Setup item from the page menu. Here, you can save various Style Preference settings (see "Preferences: Global Setup" on page 94), that are saved to the Global file.



Parameters saved in the Style Play Setup area of the Global are marked with the >GBL^{Sty} symbol through the user's manual.

The DIRECT HD bank

You can expand the internal memory User Styles with nine additional banks residing on the hard disk (optional on the Pa1X with speakers). When both LEDs of the leftmost STYLE button are lit, the DIRECT HD banks are selected. No loading is required.

Use the first nine STYLE bank buttons to select these banks. Each bank can include up to 32 Styles; browse them using the PAGE buttons.

The DIRECT HD Styles are contained in three folders, inside the DIRECTHD folder you can find in the hard disk's root. These folders, automatically created by the Pa1X, have fixed names:

Folder name	DIRECT HD bank buttons
BANK123.SET	1, 2, 3
BANK456.SET	4, 5, 6
BANK789.SET	7, 8, 9

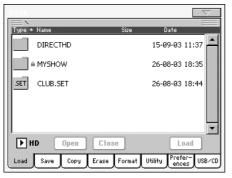
Creating the DIRECT HD banks

There are two ways to create the DIRECT HD banks:

- While in Style Record mode, you can write the new or edited Style in the Direct HD banks, as an alternative to the User Style banks. See the Style Record chapter for more information.
- While in Disk mode, you can save any Style into the DIRECT HD folders. See below the relevant procedure. More information on the disk procedures are in the Disk chapter.

Note: The following procedure requires you overwrite the User Style banks. Save these banks before proceeding, to avoid losing important data.

1. Press DISK and go to the Load page.



2. Load three banks of Styles, to be transformed in DIRECT HD banks 1, 2 and 3, into the USER01, USER 02 and USER03 banks.

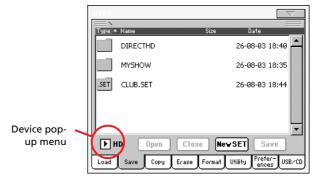
3. Go to the Save page.



4. While the "All" item is selected, press Open to open it. The internal memory content appears.

DISK		∇
Tupe *	TARTUPNALL	Date
Type 1	, rile	Date
U .	GLOBAL	19-96-93 11:32
	PERFORM	10-06-03 11:32
	PROGRAM	10-06-03 11:32
st	SONGBOOK	10-06-03 11:40
<u>R</u>	STYLE	19-96-93 11:32
SSD Open Close Save To		
Load	Save Copy Erase Form	at Utility Prefer-USB

5. Select the "Style" folder, and press Save To, to make the target device directory appear.



- 6. If it is not yet selected, select the hard disk (HD), by using the Device pop-up menu.
- 7. The hard disk directory appears. Select the DIRECTHD folder and press Open to open it.
- 8. The DIRECTHD folder directory appears. Select the "BANK123.SET" folder, and press Save to save the banks.
- **9.** Load other Styles into the USER01-USER03 banks. Save them onto the "BANK456.SET" folder.
- **10.** Load other Styles into the USER01-USER03 banks. Save them onto the "BANK789.SET" folder.

The DIRECT FD bank

In addition to the internal memory and DIRECT HD Styles, you can have DIRECT FD Styles, directly accessed from the floppy disk.

Just insert a disk, with Styles contained in the "DIRECTFD.SET" folder, and press the DIRECT FD Style bank button. The disk drive will read the "DIRECTFD.SET" folder's content, and will give you direct access to the Styles (no loading required).

Note: Reading from floppy disk may take some seconds, before the Styles are shown.

When the Style Select window opens, browse through the DIRECT FD Styles. There are up to 12 pages, and up to 96 DIRECT FD Style locations in a disk.

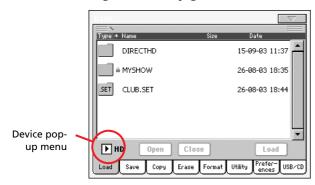
Note: Reading from floppy disk is a little slower than reading from the internal memory or the hard disk. So, there is a chance that you will have to wait some beats, before the selected DIRECT FD Style is ready to play. The Style will start at the next beginning of measure.

Creating the DIRECT FD bank

To configure the DIRECT FD bank, create a "DIRECTFD.SET" folder in the floppy disk, and save your Styles to this folder.

Note: The following procedures requires you overwrite the User Style banks. Save these banks before proceeding, to avoid loosing important data.

1. Press DISK and go to the Load page.



- 2. Select a device where to load the Styles from, by pressing the Device pop-up menu. Load three banks of Styles, to be transformed to the DIRECT FD bank.
- 3. Go to the Save page.



4. While the "All" item is selected, press Open to open it. The internal memory content appears.

DISK		∇
	TARTUPNALL	
Type *	File	Date
U.,	GLOBAL	19-96-93 11:32
	PERFORM	10-06-03 11:32
	PROGRAM	19-96-93 11:32
st	SONGBOOK	10-06-03 11:40
R	STYLE	19-96-93 11:32
SSD Open Close Save To		
Load	Save Copy Erase Format	Utility Prefer-USB

5. Select the "Style" folder, and press Save To, to make the target device directory appear.

	DISK				
	Type *	Name	Size	Date	
		DIRECTHD		26-08-03	18:40
		MYSHOW		26-08-03	18:35
	.SET	CLUB.SET		26-08-03 :	18:44
Device pop- 🔍					•
up menu	D HI	Open	Close New	SET Sa	ve
	Load	Save Copy E	irase Format U	Itility Prefe	(=_USB∕CD

- 6. Insert the floppy disk in the disk drive.
- 7. If it is not yet selected, select the floppy disk (FD), by using the Device pop-up menu.
- 8. Press New SET to create a new ".SET" folder.

Create New S	ET Folder
T NEWNAM	F
Cancel	OK

9. Press the **T** (Text Edit) button. When the Text Edit dialog box opens, name the new folder "DIRECTFD". Press OK to confirm.

Create Ne w SET Folder
Cancel OK

- **10.** Press OK to close the Create New SET Folder, and return to the floppy disk directory.
- **11.** With the "DIRECTFD" folder selected, press Save To to save the banks.
- **12.** Press the DIRECT FD button in the STYLE SELECT section, to gain direct access to the saved Styles.

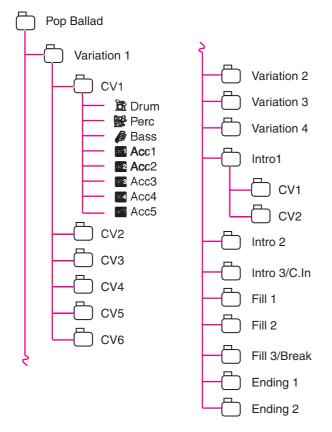
Style Record mode

By entering the Style Record mode, you can create your own Styles, or edit an existing Style.

The Style structure

The term "Style" relates with music sequences automatically played by the arranger of the Pa1X. A Style consists of a predefined number of **Style Elements** (E) (Pa1X features twelve different Style Elements: Variation 1-4, Intro 1-3, Fill 1-3, Ending 1-2). When playing, these Style Elements can be selected directly from the control panel, using the corresponding buttons.

To explain the Style structure, we can use a tree-structure, as shown in the following diagram:



Each Style Element is made up of smaller units, called **Chord Variations** (**CV**), but not all of them have the same number of CVs. Variations 1-4 have up to 6 CVs each, while the other Style Elements have only up to 2 CVs.

When you play on the chord recognition area (Lower, Upper or Full, depending on the Chord Scanning section on the control panel), the arranger scans the keyboard and determines which chord you are playing. Then, depending on the selected Style Element, it determines which Chord Variation (CV) should be played for the scanned chord. Which Chord Variation corresponds to each scanned chord is a setting of the Style: the Chord Variation Table. Each Style Element contains a Chord Variation Table, whose prototype is the following:

Chord	Chord Variations (CVs)				
	Variation 1-4 Intro 1-3, Fill 1-3, Ending 1-2				
Maj					
6					
M7					
M7b5					
Sus4					
Sus2					
M7sus4					
min					
m6					
m7					
m7b5	CV1 – CV6	CV1 – CV2			
mM7	CV1-CV0	CV1 - CV2			
7					
7b5					
7sus4					
dim					
dimM7					
aug					
aug7					
augM7					
no 3rd					
no 3rd, no 5th					

After deciding what CV to play, the arranger triggers the right sequence for each track. Since each sequence is written in a particular key (for example, CMajor, GMajor or Emin), the arranger transposes it according to the scanned chord. Notes in the sequence are carefully transposed according to the **Note Transposition Tables** (**NTT**), to make them work fine with all recognized chords. The NTT allows you to record just some Chord Variations, and have all the notes play in the right place, avoiding dissonances and transposing the pattern notes to the notes of the recognized chord.

Going deeper into the Style structure, we can see that each Chord Variation is made up of Track Sequences, and the Pa1X supports 8 different tracks. DRUM and PERC are used for drum and percussion sequences, BASS for bass and ACC1-5 are for accompaniment sequences (string, guitar, piano or other accompaniment instruments).

Just to summarize, when you play a chord on the chord recognition area, the arranger determines which Style Element is used, then determines which Chord Variation should be used for the played chord, then Style sequences for every track of that Chord Variation are transposed from the original chord to the recognized chord using the NTT, and so on every time you play a chord.

What to record

Recording a Style is a matter of recording tracks, inside a series of Chord Variations, inside a series of Style Elements, inside the Style itself.

You don't need to record all Chord Variations for all Style Elements. It is often only needed to record just a Chord Variation for each Style Element. Exceptions are the Intro 1 and Ending 1, where we suggest to record both a Major and minor Chord Variations.

Pattern data vs. track data

While the Style Record mode is where you can create or edit music patterns for the Style, track parameters (like Sounds, Volume, Pan, Octave Transpose, FX settings...) have to be edited in Style Play mode.

- After creating or editing music patterns in Style Record mode, save them by selecting the Write Style command from the page menu of the Style Record mode (see "Write Style dialog box" on page 120).
- After editing track parameters in Style Play mode, save them to the Style Performance by selecting the Write Style Performance command from the page menu of the Style Play mode (see "Write Style Performance dialog box" on page 96).

Style Import/Export

As an alternative to creating Styles on the Pa1X, you can use Korg's **Style To Midi** application to import a Standard MIDI Files (SMF) from your computer to a Pa1X's Style. The application is freely downloadable from <u>www.korgpa.com</u>. Please read the included instructions.

Entering the Style Record mode

While in the Style Play operating mode, press the REC button. The following page will appear in the display:

STYLE/PAD RECORD	
Current Style: British Pop 1	
Record/Edit Current Style	
C Record New Style	
C Record/Edit Pad	
C Record New Pad	
Cancel	ОК

Select **Record/Edit Current Style** to edit the current Style. If it is a Factory Style, you may not be able to save it at the original location (depending on the status of the "Factory Style and Pad Protect" parameter, see page 265); you will select a User Style instead.

When editing an existing Style, the original Style Performance is recalled, but the following parameters are reset to their default values: Drum Mapping (Off), Kick & Snare Designation (Off), Original Style Sound (On), Keyboard Range (On). This means that you can hear some differences between the Style in play and the same Style being edited; for example, resetting the Drum Mapping may lead to some instruments being replaced.

Select **Record New Style** to start from a new, empty Style. A default Style Performance will be recalled. When finished recording, you will save the new Style onto a User Style location. (Styles can be saved onto Factory Style locations only when the "Factory Style and Pad Protect" parameter is set to On – see page 265).

After editing the Style, please save it (see "Exit by saving or deleting changes" below) and exit the Style Record mode. Then, while in Style Play mode, edit the Style Performance to adjust track settings (Tempo, Volume, Pan, FX Send... see page 82 and following in the "Style Play operating mode" chapter) and save it by selecting the "Write Current Style Performance" from the page menu (see "Write Style Performance dialog box" on page 96).

Note: After a record or edit operation, the memory is automatically reorganized. Therefore, when you press START/STOP there is a delay before you can actually listen to the Style. This delay is higher with a Style containing more MIDI events.

Note: While in Record mode, the footswitch and EC5 pedals are disabled. On the contrary, volume/expression-type pedals can be used.

Exit by saving or deleting changes

When finished editing, you can save your Style in memory, or abort any change.

• To save changes, select the "Write Style" command from the page menu (see "Write Style dialog box" on page 120).

• To abort all changes, select the "Exit from Record" command from the page menu, or press the REC button, to exit from record and return to the main page of the Style Record mode.

Hint: Save often while recording, to avoid accidentally losing your *Style.*

Listening to the Style while in Edit mode

While you are in Style Record mode, you can listen to the selected Chord Variation or to the whole Style, depending on the page you are in.

To select a Chord Variation, go to the Main page of the Record/ Edit mode (see "Element (Style Element)" and "Chord Var (Chord Variation)" on page 102).

- When you are in the Main, Event Edit, Quantize, Transpose, Velocity, or Delete pages, you can listen to the selected Chord Variation. Press START/STOP to check how it works. Press START/STOP again to stop the playback.
- When you are in the Sounds/Expression, Keyboard Range, Chord Table, Trigger/Tension, Delete All, Copy, Style Element Controls or Style Control pages, you can listen to the whole Style. Press START/STOP and play some chords to do your tests. Select any Style Element using the control panel buttons (VARIATION 1-4, INTRO 1-2, FILL 1-2, ENDING 1-2). Press START/STOP again to stop the playback.

Note: While in Style mode, the Fingered 3 Chord Scanning mode is automatically selected.

List of recorded events

The Style Record mode filters out some events that may cause wrong operation of the Style. Here are the recorded events, and the most important filtered-out events.

Control function	CC# (Control Change Number)		
Allowed			
Note On			
Note Off ^(a)			
Pitch Bend			
Modulation 1	1		
Modulation 2	2		
Pan	10		
Expression	11		
CC#12	12		
CC#13	13		
Damper	64		
Filter Resonance	71		
Low Pass Filter Cutoff	74		
CC#80	80		
CC#81	81		
CC#82	82		
	Not allowed		
Program Change			
After Touch			
Volume	7		
All other Control Change messages			

(a). A Note Off will always be inserted at the end of the Chord Variation.

Note: Some Control Change messages cannot be recorded directly by using Pa1X integrated controls.

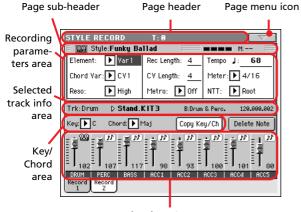
All allowed controllers can be assigned to an Assignable Pedal/ Slider/Switch.

MIDI Control Change messaged inserted by using a software on an external computer are imported when using the **Style to Midi** application, available from <u>www.korgpa.com</u>.

Some controllers are reset at the end of the pattern.

Main page - Record 1

After pressing the REC button, and having chosen whether you want to edit an existing Style or create a new one, the main page of the Style Record mode appears, with the tab "Record 1" selected.



Track volume/status area

Page header

This line shows the current operating mode, transposition and recognized chord.



Operating mode name

Name of the current operating mode.

Master transpose

Master transpose value in semitones. This value can be changed using the TRANSPOSE buttons on the control panel.

Page menu icon

Press this icon to open the page menu. See "Page menu" on page 120.

Page sub-header

This area shows some performing info on the Style.



Style in record/edit

Name of the Style currently in edit or record.

Beat counter

This indicator shows the current beat inside the current measure.

Measure number

Current measure you are recording.

Recording parameters area

Element (Style Element)

This parameter lets you select a Style Element for editing. Each Style Element corresponds to a button on the control panel carrying the same name. After selecting a Style Element, select a Chord Variation for actual editing (see below).

Var1...CountIn

This is the selected Style Element

Chord Var (Chord Variation)

This parameter lets you select a Chord Variation for editing, after selecting the Style Element this Chord Variation belongs to.

Note: When this parameter and the assigned value is in small letters (cv1...cv6), the Chord Variation is empty; when it is in capitals (CV1...CV6), it is already recorded.

• If Style Element is Var1, Var2, Var 3 or Var4, you can select one of 6 Chord Variations to edit.

• If Style Element is Intro1, Intro2, Intro3, Fill1, Fill2, Fill3, Ending1 or Ending2, you can select one of 2 Chord Variations to edit.

Resolution

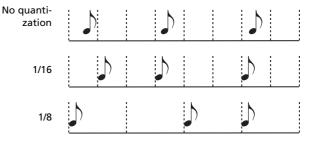
Use this parameter to set the quantization during recording. Quantization is a way of correcting timing errors; notes played too soon or too later are moved to the nearest axis of a rhythmic "grid", set with this parameter, thus playing perfectly in time.

Note: To quantize after recording, use the Quantize function in the Edit section (see "Style Edit: Quantize" on page 111).

High No quantization applied.

(1/32)...) (1/8)

Grid resolution, in musical values. For example, when you select 1/16, all notes are moved to the nearest 1/16 division. When you select 1/8, all notes are moved to the nearest 1/8 division. A '3' after the quantization value means triplet.



Rec Length (Recording Length)

►STYLE

This parameter sets the recording length (in measures) of the selected track. Its value is always equal to, or a divider of, the Chord Variation Length (see next parameter).

This is not the total length of the Chord Variation, but just of the current track. For example, you may have a Chord Variation eight measures long, with a drum pattern repeating each two measures. If so, set the CV Length parameter to "8", and the Rec Length parameter to "2" before starting recording the Drum track. When playing back the Style, saving it or executing any edit operation on the Style, the 2-measures pattern will be extended to the full 8-measures length of the Chord Variation.

Warning: If you assign CV Length a value lower than Rec Length, the value of Rec Length is not immediately updated in the display. Therefore, you are still free of changing the value of CV Length, before the measures exceeding its value are deleted (see warning in "CV Length (Chord Variation Length)" below).

However, if you press START/STOP to begin recording, the real Rec Length value is changed to the new one, even if the display still shows the old value.

For example, you may have CV Length = 4 and Rec Length = 4. If you set CV Length to 2, and press START/STOP to begin recording, Rec Length is still shown as 4, but it is in reality set to 2, and recording will cycle for just 2 measures. After you press START/STOP to stop recording, Rec Length is updated to 2, and all measures after the second measure are deleted.

CV Length (Chord Variation Length) >STYLE

This parameter sets the total length (up to 32 measures) for the selected Chord Variation. When playing a Style, this will be the length of the accompaniment pattern, when the chord corresponding to the Chord Variation is recognized on the keyboard.

Warning: If you reduce the Chord Variation Length after recording, any measure after the selected length will be deleted. Be very careful when setting the CV Length to a lower value after recording! If it happens, we suggest to exit from record without saving (see "Exit from Record" on page 120).

Metro (Metronome)

This is where you can set the metronome.

- Off No metronome click will be heard during recording. In any case, a one-bar precount will be played before starting recording.
- On1 Metronome on, with a one-bar precount before starting recording.
- On2 Metronome on, with a two-bar precount before starting recording.

Tempo

Select this parameter to use TEMPO/VALUE controls to set the tempo.

Hint: You can always change the Tempo, when other parameters are selected, by keeping the SHIFT button pressed, and rotating the DIAL.

Note: When recording tempo, old data is always replaced by the new data.

Note: The actual tempo of the Style will be the one shown when saving the Style Performance in Style Play mode (see "Current tempo" on page 77).

Meter

This is the meter (time signature) of the Style Element. You can edit this parameter only when the Style Element is empty, i.e. before you begin recording anything.

NTT (Note Transposition Table)

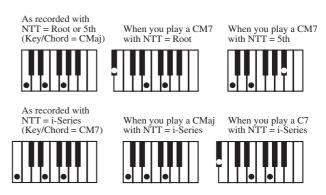
►STYLE

►STYLE

The Note Transposition Table (NTT) determines how the arranger will transpose pattern notes, when a chord is recognized that does not exactly match the original chord of a Chord Variation. For example, if you only recorded a Chord Variation for the CMaj chord, when a CMaj7 is recognized on the keyboard the arranger must transpose some notes to create the missing 7th.

Note: To conform to Korg specifications, it is advisable to set the NTT to "No Transpose" on the Intro 1 and Ending 1.

- Root The root note (in CMaj = C) is transposed to the missing notes.
- Fifth The 5th note (in CMaj = G) is transposed to the missing notes.
- i-Series All original patterns must be programmed on the "Maj7" or "min7" chords. When loading old Korg i-Series Styles, this option is automatically selected.
- NoTrnsp No transposition applied. The pattern will always play as recorded. This is the standard setting of Intro 1 and Ending 1 in Korg's original Styles.



Selected track info area

This line lets you see the Sound assigned to the selected track.

Trk:Drum	⊳ Stand.	кітз	B:Drum	& Perc.	129.9	99.992
Track name			Sound	bank		
	Sound name Program		n Change			

Track name

Name of the selected track.

Drum...Acc5 Style track.

Sound name

►STYLE

Reference

Sound assigned to the selected track. The triangle means you can press the name to open the Sound Select window, and select a different Sound.

Sound bank

Bank the selected Sound belongs to.

Program Change

Program Change number. Shown only when the "Show Program Change number" parameter is turned on in Global mode. (See page 228).

Key/Chord area

Key/Chord

▶STYLE

This parameter pair allows you to define the track's original key and chord type, for the current Chord Variation. When in Style Play mode, this chord will be played back exactly as it was recorded, without any NTT processing (see above).

To record just one Chord Variation for a Style Element, the suggested original key/chord is "maj7" (with NTT = i-Series). Be very careful to play the 7th+ note (i.e., with a "Cmaj7th" key/ chord, the B), to avoid the lack of notes, or a bad NTT conversion when playing different chords.

Note: To conform to Korg specifications, it is advisable to record both the "Major" and "minor" Chord Variations for the Intro 1 and Ending 1 Style Elements.

When you select a track, the original key/chord assigned to the selected track will be shown. All recorded tracks will play back on that key/chord. For example, if the original key/chord for the Acc1 track is A7th, when selecting the Acc1 track all the remaining tracks will play on the A7th key/chord.

In the example above, you will record the Acc1 track in the AMajor key, with notes pertaining to the A7th scale. This exact pattern will be recalled, when an A7th chord will be recognized.

Copy Key/Ch (Copy Key/Chord) button

Press this button in the display to copy Key/Chord settings of the currently selected track to all other tracks of the same Chord Variation, or to the whole Style. This function is useful to speed-up pattern programming, and to avoid having different tracks in different keys within the same Chord Variation.

Copy Key/Chord
From Current Track
То
Current Chord Variation Tracks
C All Style Tracks
Cancel OK

Current Chord Variation Tracks

The Key/Chord of the current track will be copied to all tracks of the current Chord Variation.

All Style Tracks

The Key/Chord of the current track will be copied to all tracks of the Style (i.e., all Chord Variations).

Delete Note button

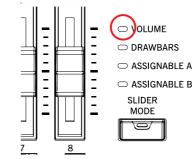
When a track is selected, you can use this command to delete a single note or a single percussive instrument.

If the Style is playing, this shortcut deletes the instrument only while the key is kept pressed, leaving all other notes untouched within the track.

Tracks volume/status area

Virtual sliders

Each virtual slider in the display corresponds to an Assignable Slider on the control panel. Use the Assignable Sliders to change each value, provided the VOLUME LED (over the SLIDER MODE button) is turned on. This LED status depends on the last selected Performance, but can be changed anytime by using the SLIDER MODE button.



As an alternative, press the track's area to select a track, and use TEMPO/VALUE controls to change the value.

Track status icons

►STYLE

Status of tracks. Press this icon to change the status.

Play status. The track can be heard.



Mute status. The track cannot be heard.

Record status. After starting recording, the track will receive notes from the keyboard and the MIDI IN connector.

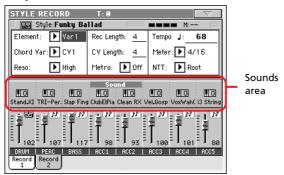
Track names

Under the sliders, a label for each track is shown.

Drum...Acc5 Shown Style tracks.

Main page - Record 2

While in the main page, press the "Record 2" tab to see this page. Most parameters in this page are the same as in "Main page -Record 1". In addition, here you can see and select Sounds for each Style track.



Sounds area

This area lets you see Sounds and octave transposition for the eight Style tracks.

Sound Sound Store and St

Octave icon

Non editable. This indicator shows the track's octave transposition. To change this value, go to the "Mixer/Tuning: Tuning" edit page in the Style Play mode (see page 84). Save this value to the Style Performance.

Sound name

STYLE

Name of the Sound assigned to the track. Touch a name a first time to select the corresponding track (detailed information are shown on the Selected Track Info area, see above). Touch it a second time to open the Sound Select window.

Note: These Sounds can be replaced by Sounds selected by a Performance, provided the "Original Style Sounds" parameter is left unchecked in Style Play mode (see page 78).

Style Record procedure

There are two different methods for recording a Style: Realtime and Step.

- Realtime Recording allows you to record Style patterns in realtime.
- Step Recording allows you to create a new Style by entering single notes or chords in each track. This is very useful when transcribing an existing score, or needing a higher grade of detail, and is particularly suitable to create drum and percussion tracks.

Preparing to record

- 1. If you like to edit an existing Style, select that Style.
- 2. Press the REC button to enter the Style Record mode. You are prompted to select either the Current Style, or a New Style.

Select "record/edit Current Style" if you want to edit the current Style, or make a new Style starting from an existing one. Select "Record New Style" if you want to start from scratch with an empty Style.

- 3. After you select your preferred option, the main page of the Style Record mode will appear.
- **4.** Select the Element (Style Element) and Chord Var (Chord Variation) parameters, to select the Chord Variation to be recorded/edited.

Note: For more information on the Style Elements and Chord Variations, and the Style structure in general, see "The Style structure" on page 99.

- **5.** Use the Rec Length (Recording Length) parameter to set the length (in measures) of the pattern to record.
- 6. Use the Meter parameter to set the Style Element's meter.

Note: You can edit this parameter only if you selected the "Record New Style" option when entering the Record mode, or when editing an empty Chord Variation.

- **7**. Select the Tempo parameter and set the tempo.
- 8. Press the Record 2 tab to see the Sounds area. Here you can assign the right Sound to each Style track. You cannot select Digital Drawbars Sounds. (For more details, see "Sounds area" on page 105).
- **9.** If needed, set the Octave Transpose for each track. *Note: The Octave Transpose will affect only the notes coming from the keyboard, and not from the arranger.*
- **10.** At this point, if you want to do a Realtime Recording go on reading "Realtime Record procedure" below. Otherwise, if you prefer to do a Step Record, jump to "Step Record procedure" on page 106.

Realtime Record procedure

 Select the track to record. Its status icon will turn to 'Record'. (For more details, see "Tracks volume/status area" on page 104).

Note: When entering the Record mode, the last selected track is already in Record status. When you press START/STOP after entering the Record mode, you can immediately start recording.

If you like, you can try your part before recording:

• Mute the track, by repeatedly pressing its icon status, until

the [M] (Mute) status icon appears.

• Press START/STOP to let any recorded track play back, and practice on the keyboard.

• When you have finished practicing, press START/STOP to stop the arranger, and unmute the track by repeatedly pressing its icon status, until the 🔛 (Record) status icon appears again.

2. While the shown status icon is Record, press START/STOP to begin recording. Depending on the "Metro" (metronome) option you selected, a 1- or 2-bars precount may play before the recording actually begins. When it begins, play freely. The pattern will last for some measures, according to the Rec Length value, then restart.

Since the recording will happen in overdub, you can add notes on any following passage. This is very useful to record different percussive instruments at any cycle on a Drum or Percussion track.

Note: While recording, track's **Keyboard Range** (see page 116) is ignored, and the track can play over the whole keyboard range. The **Local** parameter (see "Local Control On" on page 231) is also automatically set to On, to allow playing on the keyboard.

3. When finished recording, press START/STOP to stop the arranger. Select a different track, and go on recording the full Chord Variation.

Note: You can select a different track only when the arranger is not running.

- **4.** When finished recording the Chord Variation, select a different Chord Variation or Style Element to go on recording the full Style.
- 5. When finished recording the new Style, select the "Write Style" command from the page menu, to open the Write Style dialog box (see "Write Style dialog box" on page 120) and save it to memory.

To exit the Style Record mode without saving any change, select the "Exit from Record" command from the page menu.

Step Record procedure

- 1. While in the main page of the Style Record mode, select the "Overdub Step Recording" command from the page menu, to enter the Overdub Step Record mode.
- 2. The "Pos" parameter shows the current position.

• If you do not want to insert a note or chord at the current position, insert a rest instead, as shown in step 4.

• To jump to the next measure, filling the remaining beats with rests, press the Next M. button in the display.

- **3.** To change the step value, use the "Step Time values" area in the display.
- 4. Insert a note, rest or chord at the current position.

• To insert a single note, just play it on the keyboard. The inserted note length will match the step length. You may change the velocity and relative duration of the note, by editing the "Duration" and "Velocity" parameters (see page 122).

• To insert a rest, just press the Rest button in the display. Its length will match the step value.

• To tie the note to be inserted to the previous one, press the Tie button in the display. A note will be inserted, tied to the previous one, with exactly the same name. You don't need to play it on the keyboard again.

• To insert a chord or a second voice, see "Chords and second voices in Step Record mode" below.

- 5. After inserting a new event, you may go back by pressing the Back button in the display. This will delete the previously inserted event, and set the step in edit again.
- 6. When the end of the pattern is reached, the "End of Loop" event is shown, and the recording restarts from the "001.01.000" position. Any note exceeding the pattern length, inserted at its end, will be reduced to fit the total length of the pattern.

At this point, you may go on, inserting new events in overdub mode (the previously inserted events will not be deleted). This is very useful when recording a drum or percussion track, where you may want to record the bass drum on a first cycle, the snare drum on the second cycle, and the hi-hat and cymbals during the following cycles.

7. When finished recording, press the Done button in the display to exit the Step Record mode.

When back to the main page of the Style Record mode, you may turn all tracks to the play status, then press START/STOP to listen to the Style. Press START/STOP again to stop the playback.

8. From the main page of the Style Record mode, select either the "Write Style" or the "Exit from Record" command to exit from the Style record mode, respectively by saving the Style to memory, or by canceling any change (see "Write Style dialog box" on page 120).

Chords and second voices in Step Record mode

You are not obliged to insert single notes in a track. There are several ways to insert chords and double voices. Lets look at some.

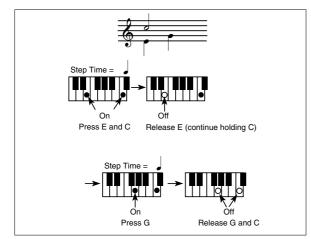
Entering a chord. Simply play a chord instead of a single note. The event name will be the first note of the chord you pressed, followed by the "…" abbreviation.

Entering a chord made of notes with different velocity values. You can make the upper or lower note of a chord, for example, louder than the remaining ones, to let the most important stand out from the chord. Here is how to insert a three-note chord:

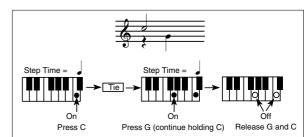
- 1. Edit the first note's Velocity value.
- 2. Press the first note and keep it pressed.
- 3. Edit the second note's Velocity value.
- 4. Press the second note and keep it pressed.
- 5. Edit the third note's Velocity value.
- 6. Press the third note, then release all notes.

Entering a second voice. You can insert passages where one note is kept pressed, while another voice moves freely.

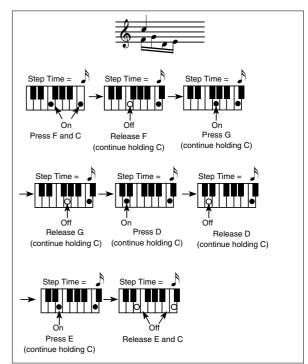
Ex. 1:











Edit menu

From any page (apart for Step Record), press the MENU button to open the Style Record edit menu. This menu gives access to the various Style Record edit sections.

When in the menu, select an edit section, or press EXIT to exit the menu and return to the main page. To return to the main page, you can also select the Main Page menu item.

When in an edit page, press the EXIT button to return to the main page of the Style Record mode.

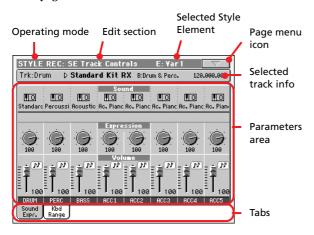


Note: While the Style is in play, you cannot access the Edit section pages from the main page (see page 102). Stop the playback before pressing MENU.

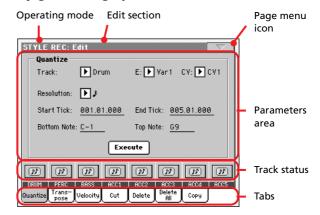
Note: When switching from the Edit section pages (Quantize, Transpose, Velocity, Delete) to the other pages, or vice-versa, the Style (if in play) is automatically stopped.

Edit page structure

Most edit pages share some basic elements.



Other pages have a slightly different structure.



Operating mode

This indicates that the instrument is in Style Record mode.

Edit section

This identifies the current edit section, corresponding to one of the items of the edit menu (see "Edit menu" on page 108).

Selected Style Element

In Style Record mode, edits always happen on the selected Style Element.

Page menu icon

Press this icon to open the page menu (see "Page menu" on page 120).

Parameters area

Each page contains various parameters. Use the tabs to select one of the available pages. For detailed information on the various types of parameters, see sections starting from page 109.

Track status

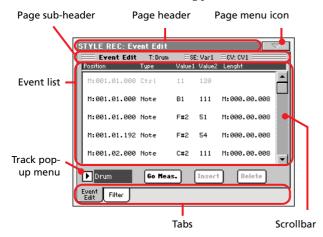
Use these buttons to mute/unmute tracks while editing.

Tabs

Use tabs to select one of the edit pages of the current edit section.

Event Edit: Event Edit

The Event Edit is the page where you can edit each single MIDI event of the selected Chord Variation. You can, for example, replace a note with a different one, or change its playing strength (i.e., velocity value). See "Event Edit procedure" on page 110 for more information on the event editing procedure.



Page header

See "Page header" on page 102.

Page menu icon

Press this icon to open the page menu. See "Page menu" on page 120.

Page sub-header

This area shows some performing info on the Song.



Selected track

Name of the track in edit. Use the Track pop-up menu to select one of the Style tracks.

SE/CV (Style Element/Chord Variation)

Selected Style Element and Chord Variation. This parameter cannot be edited. To select a different Style Element and Chord Variation, press EXIT to go back to the main page of the Style Record mode (see "Main page - Record 1" on page 102).

Event list

Use the Event list to see all events contained in the selected track in the selected Style Element.

Use the scrollbar to browse through the events.

Touch the event to be selected. Selected events are highlighted and can be heard.

Position

Position of the event, expressed in the form 'aaa.bb.ccc':

- 'aaa' is the measure
- 'bb' is the beat
- 'ccc' is the tick (each quarter beat = 384 ticks)

You can edit this parameter to move the event to a different position. You can edit a position in either of the following ways:

- (a) select the parameter, and use the TEMPO/VALUE controls to change the value, or
- (b) select the parameter, then touch it again; the numeric keypad will appear. Enter the new position by dialing in the three parts of the number, separated by a dot. Zeroes at the beginning can be omitted, as well as the least important parts of the number. For example, to enter position 002.02.193, dial "2.2.193"; to enter position 002.04.000 dial "2.4"; to enter position 002.01.000, simply dial "2".

Type, Value 1, Value 2

Type and values of the event shown in the display. Depending on the selected event, the value may change. This parameter also shows the (greyed-out, so non-editable) "CC#11" (Expression) event at the beginning of the pattern, and the "End Of Loop" marking, when the end of a track is reached.

Event type	Value 1	Value 2
Note	Note name	Velocity
Ctrl	Control Change number	Control Change value
Bend	Bending value	-

To change the event type, select the Type parameter, then use the TEMPO/VALUE controls to select a different event type. A set of default values will be automatically assigned to the event.

To select and edit the event's value, select the corresponding parameter, and use TEMPO/VALUE controls.

Length

Length of the selected Note event. The value format is the same as the Position value. This is only available for Note events.

Note: If you change a length of "000.00.000" to a different value, you can't go back to the original value. This rather uncommon zero-length value may be found in some drum or percussion tracks.

Scrollbar

Use the scrollbar to browse the event through the list.

Other elements

Track pop-up menu

Use this pop-up menu to select the track to edit, inside the current Chord Variation.

Drum...Acc5 Style track.

Go Meas./Catch

This is a dual-function command.

• While the sequencer is not running, it works as a Go to Measure command. Press it to open the Go to Measure dialog box:



When in this dialog box, select a target measure, and press OK. The first event available in the target measure will be selected.

• While the sequencer is running, it works as a Catch Locator command. Press it to show the event that is currently playing.

Insert

Press the Insert button in the display to insert a new event at the current shown Position. The default values are Type = Note, Pitch = C4, Velocity = 100, Length = 192.

Delete

Press the Delete button in the display to delete the event selected in the display.

Event Edit procedure

Here is the general procedure to follow for the event editing.

- 1. Select the Style to edit, and press the REC button. Select the "Current Style" option to enter recording. The main page of the Style Record mode will appear.
- 2. Select the "Element (Style Element)" and "Chord Var (Chord Variation)" parameters.

Note: For more information on the Style Elements and Chord Variations, and the Style structure in general, see "The Style structure" on page 99.

- **3.** Press MENU, and select the Event Edit section. The Event Edit page appears (see "Event Edit: Event Edit" on page 109 for more information).
- Press START/STOP to listen to the selected Chord Variation. Press START/STOP to stop it. Chord Scanning does not work, so you will listen the pattern at the original Key/ Chord.
- 5. Press the Filter tab to select the Filter page, and uncheck the filters for the event types you wish to see in the display (see "Event Edit: Filter" on page 111 for more information).
- 6. Press the Event Edit tab to go back to the Event Edit page.
- 7. Use the Track pop-up menu to select the track to edit (see "Track pop-up menu" on page 109).
- 8. The list of events contained in the selected track (inside the Chord Variation selected on step 2) will appear in the display. Some events on the beginning of the Chord Variations, as well as the "EndOfTrk" event (marking its ending point) cannot be edited, therefore appearing in grey.

- 9. Scroll though the various events by using the scrollbar.
- **10.** Select an event to be edited by touching it in the display. This is usually a note, that you can edit.

M:001.01.000 Note	F#2 §	51 M:000	.00.008
-------------------	-------	----------	---------

For more information on the event types and their values, see "Event Edit: Event Edit" on page 109.

11. Edit the event.

• Select the "M" parameter. Use TEMPO/VALUE controls to change the event's position.

• Select the Type parameter. You may use TEMPO/VALUE controls to change the event type, as well as its Value 1 and Value 2.

• If a Note event is selected, select the Length parameter, and use TEMPO/VALUE controls to change the event's length.

- **12.** You may use the Go Meas. command to go to a different measure (see "Go Meas./Catch" on page 109)
- **13.** As described in step 4, you may press START/STOP to listen how the pattern sounds after your changes. Press START/STOP again to stop the pattern running.
- 14. Press the Insert button in the display to insert an event at the Position shown in the display (a Note event with default values will be inserted). Press the Delete button in the display to delete the selected event.
- **15.** When editing is complete, you may select a different track to edit (go to step 7).
- **16.** When finished editing the selected Chord Variation, press EXIT to go back to the main page of the Style Record mode, then go to step 2 to select and edit a different Chord Variation.
- **17.** When finished editing the whole Style, select the "Write Style" command from the page menu to open the Write Style dialog box (see "Write Style dialog box" on page 120), or select the "Exit from Record" command to cancel all changes.

• Press the **T** (Text Edit) button to enter the Text Edit dialog box. Enter a name and confirm by selecting OK.

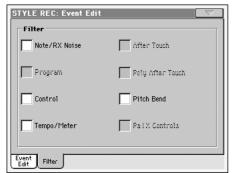
• Select a target memory location where to save the Style. The name of the Style already existing at the selected location is shown after the Style Bank-Location number.

Warning: If you select an existing Style and confirm writing, the older Style is deleted and replaced by the new one. Save the Styles you don't want to loose on disk, before overwriting them.

18. Press OK to save the Style to the internal memory, or Cancel to delete any changes made in Style Record mode. When the "Are you sure?" message appears, press OK to confirm, or Cancel to go back to the "Write Style" dialog box.

Event Edit: Filter

This page is where you can select the event types to be shown in the Event Edit page.



Turn On the filter for all event types you do not wish to see in the Event Edit page.

Note: Some of the events are "ghosted", and non editable, since the corresponding events are not editable in a Style.

Note/RX Noise

Notes and RX Noises.

Control Control Change events. Only the following Control Change numbers are allowed with Styles.

Control function	CC# (Control Change Number)
Modulation 1	1
Modulation 2	2
Pan	10
Expression ^(a)	11
CC#12	12
CC#13	13
Damper	64
Filter Resonance	71
Low Pass Filter Cutoff	74
CC#80	80
CC#81	81
CC#82	82

(a). Expression events cannot be inserted at the starting Position (001.01.000). An Expression value is already among the default "header" parameters of the Style Element.

Tempo/Meter Tempo and Meter changes (Master Track only).

Pitch Bend Pitch Bend events.

Style Edit: Quantize

The quantize function may be used to correct any timing mistake after recording, or to give the pattern a "groovy" feeling.

STYLE REC: Edit	∇		
Quantize			
Track: Drum	E: 🕨 Var 1 - CV: 🕨 CV 1		
Resolution: 🕨 🌶			
Start Tick: 001.01.000	End Tick: 005.01.000		
Bottom Note: <u>C-1</u>	Top Note: <u>G9</u>		
Execute			
m w w m	W W W		
DRUM PERC BASS ACC1 Quantize Trans- Velocity Cut	ACC2 ACC3 ACC4 ACC5 Delete Delete Copy		

After setting the various parameters, press Execute.

Track

Use this parameter to select a track.

All All tracks selected.

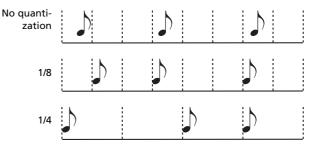
Drum...Acc5 Selected track.

E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element and Chord Variation for editing.

Resolution

This parameter sets the quantization after recording. For example, when you select 1/8, all notes are moved to the nearest 1/8 division. When you select 1/4, all notes are moved to the nearest 1/4 division.



(1/32)...↓ (1/4)

Grid resolution, in musical values. A "b...f" character added after the value means swing-quantization. A "3" means triplet.

Start / End Tick

Use these parameters to set the starting and ending points of the range to quantize.

If a Chord Variation is four measures long, and you want to select it all, the Start will be positioned at 1.01.000, and the End at 5.01.000.

Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to quantize. If you select the same note as the Bottom and Top parameters, you can select a single percussive instrument in a Drum or Percussion track. **Note:** These parameters are available only when a Drum or Percussion track is selected.

Execute

Press this button to execute the operation set in this page.

Track status icon

Status of tracks. Press this icon to change the status.

Play status. The track can be heard.

Mute status. The track cannot be heard.

Track names

Under the buttons, a label for each track is shown.

Style Edit: Transpose

In this page you can transpose the selected track(s).

Note: After transposing, please don't forget to readjust the "Key/ Chord" parameter in the main page of the Style Record mode (see page 104).

STYLE I	REC: Edit			∇
Tran	spose			
Trac	k: 🕨 🕻	rum	E: 🕨 Var 1	CV: 🕨 CV1
Value	e: <u>0</u>	_		
Start	t Tick: <u>001</u>	01.000	End Tick: 0	05.01.000
Botto	om Note: <u>C-1</u>	_	Top Note: G	9
Execute				
DRUM	PERC BASS	ACC1	ACC2 ACC3	ACC4 ACC5
	Frans- Pose Velocit	_	Delete Delete	

After setting the various parameters, press Execute.

E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element and Chord Variation for editing.

Track

Use this parameter to select a track.

All All tracks selected, apart for tracks set in Drum mode (like the Drum and Percussion tracks). The whole selected Chord Variation will be transposed.

Drum...Acc5 Single selected track.

Value

Transpose value (±127 semitones).

Start / End Tick

Use these parameters to set the starting and ending points of the range to be transposed.

If a Chord Variation is four measures long, and you want to select it all, the Start will be positioned at 1.01.000, and the End at 5.01.000.

Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to be transposed. If you select the same note as the Bottom and Top parameters, you can select a single percussive instrument in a Drum or Percussion track. Since in a Drum Kit each instrument is assigned to a different note of the scale, transposing a percussive instrument means assigning the part to a different instrument.

Execute

Press this button to execute the operation set in this page.

Track status icon

Status of tracks. Press this icon to change the status.

Play status. The track can be heard.

M

Mute status. The track cannot be heard.

Track names

Under the buttons, a label for each track is shown.

Style Edit: Velocity

In this page you can change the velocity (dynamics) value of notes in the selected track. An Advanced mode is available, allowing you to select a velocity curve for the selected range. This is useful to create fade-ins or fade-outs.

STYLE REC: Edit				
Yelocity				
Track: 🕨 Track 1	E: 🕨 Var 1 🛛 CV: 🕨 CV 1			
Intensity: <u>100</u> %	Curve: 🕨 Curve 1			
Start Vel. Value: <mark>64</mark>	End Vel. Value: 127			
Start Tick: <u>001.01.000</u>	End Tick: 001.01.192			
Bottom Note: <u>C-1</u>	Top Note: <u>G9</u>			
Advanced Execute				
m m m m	m m m m			
DRUM PERC BASS ACC1 Quantize Trans- Velocity Cut	ACC2 ACC3 ACC4 ACC5 Delete Delete Copy			

After setting the various parameters, press Execute.

Note: When an RX Sound is assigned to the track being edited, the resulting sound may change, since this kind of Sounds is made of several different layers triggered by different velocity values.

Also, a fade-out may result in the level "jumping" up next to the zero, since a higher-level layer may be selected by low velocity values.

Track

Use this parameter to select a track.

All All tracks selected. The velocity for all notes of the whole selected Chord Variation will be changed.

Drum...Acc5 Selected track.

E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element and Chord Variation for editing.

Value

Velocity change value (± 127) .

Start / End Tick

Use these parameters to set the starting and ending points of the range to be modified.

If a Chord Variation is four measures long, and you want to select it all, the Start will be positioned at 1.01.000, and the End at 5.01.000.

Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to be modified. If you select the same note as the Bottom and Top parameters, you can select a single percussive instrument in a Drum or Percussion track.

Advanced

When this checkbox is checked, the "Intensity", "Curve", "Start Velocity Value" and "End Velocity Value" parameters can be edited.

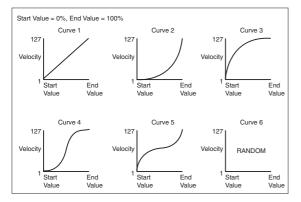
Intensity

(Only available in Advanced mode). Use this parameter to specify the degree to which the velocity data will be adjusted toward the curve you specify in "Curve".

0...100% Intensity value. With a setting of 0 [%], the velocity will not change. With a setting of 100 [%], the velocity will be changed the most.

Curve

(*Only available in Advanced mode*). Use this parameter to select one of the six curves, and to specify how the velocity will change over time.



Start / End Vel. Value

(*Only available in Advanced mode*). Velocity change at the starting and ending ticks of the selected range.

0...100 Velocity change in percentage.

Execute

Press this button to execute the operation set in this page.

Track status icon

Status of tracks. Press this icon to change the status.

- 6		х.	
_			
_	1.00		

Play status. The track can be heard.

M

Mute status. The track cannot be heard.

Track names

Under the buttons, a label for each track is shown.

Style Edit: Cut

This function lets you quickly delete a selected measure (or a series of measures) from the selected Chord Variation. All following events are moved back, to replace the cut measure(s).

STYLE REC: Edit	∇			
Cut Measure				
	E: 🕨 Var 1 🛛 CV: 🕨 CV 1			
Start: <u>1</u>	Length: 1			
Execute				
DRUM PERC BASS ACC				
Quantize Trans- Velocity Cu	Delete I			

After setting the various parameters, press Execute.

E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element and Chord Variation for editing.

Start

First measure to be cut.

Length

Number of measures to be cut.

Execute

Press this button to execute the operation set in this page.

Track status icon

Status of tracks. Press this icon to change the status.

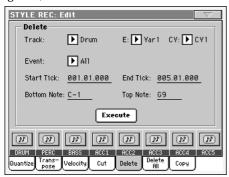
- Play status. The track can be heard.
- Mute status. The track cannot be heard.

Track names

Under the buttons, a label for each track is shown.

Style Edit: Delete

This page is where you can delete MIDI events out of the Style. This function does not remove measures from the pattern. To remove whole measure, use the Cut function (see "Style Edit: Cut" on page 113)



After setting the various parameters, press Execute.

E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element and Chord Variation for editing.

Track

Use this parameter to select a track.

All All tracks selected. After deletion, the selected Chord Variation will remain empty.

Drum...Acc5 Selected track.

Event

Type of MIDI event to delete.

- All All events. The measures are not removed from the Chord Variation.
- Note All notes in the selected range.
- All duplicate notes. When two notes with the Dup.Note same pitch are encountered on the same tick, the one with the lowest velocity is deleted.
- After Touch After Touch events.

Note: This kind of data is automatically removed during recording.

- Pitch Bend Pitch Bend events.
- Prog.Change Program Change events, excluding the bundled Control Change #00 (Bank Select MSB) and #32 (Bank Select LSB).

Note: This kind of data is automatically removed during recording.

All Control Change events, for example Bank Ctl.Change Select, Modulation, Damper, Soft Pedal...

CC00/32...CC127

Single Control Change events. Double Control Change numbers (like 00/32) are MSB/LSB bundles

Note: Some CC data are automatically removed during recording. See the table on page 101 for more information on the allowed data.

Start / End Tick

Use these parameters to set the starting and ending points of the range to delete.

If a Chord Variation is four measures long, and you want to select it all, the Start will be positioned at 1.01.000, and the End at 5.01.000.

Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to delete. If you select the same note as the Bottom and Top parameters, you can select a single percussive instrument in a Drum or Percussion track.

Note: These parameters are available only when the All or Note option is selected.

Execute

Press this button to execute the operation set in this page.

Track status icon

Status of tracks. Press this icon to change the status.

N

Play status. The track can be heard.



Mute status. The track cannot be heard.

(\mathbf{M})

Chord

Track names

Under the buttons, a label for each track is shown.

Style Edit: Delete All

Delete Track: Drum E/CY: All Execute	
Execute	
a w w w w M W	-
RUM PERC BASS ACC1 ACC2 ACC3 ACC4 ACC	የሆ]
ntize Pose Velocity Cut Delete All Copy	

This function lets you quickly delete a selected Style Element or

After setting the various parameters, press Execute.

Track

- All All tracks of the selected Style, Style Element or Chord Variation.
- Drum-Acc5 Single track of the selected Style, Style Element or Chord Variation.

E / CV (Style Element/Chord Variation)

Use these parameters to select the Style Element and Chord Variation for editing.

All All Style Elements, i.e. the whole Style. When E/ Track=All and CV=All, the whole Style is deleted, and all parameters are set to the default status.

Var1...CountIn

Single Style Element.

V1-CV1...CI-CV2

Single Chord Variation.

Execute

Press this button to execute the operation set in this page.

Track status icon

Status of tracks. Press this icon to change the status.

- 11
- M
- Play status. The track can be heard.
- Mute status. The track cannot be heard.

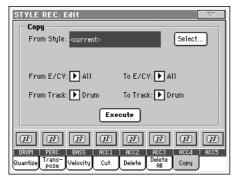
Track names

Under the buttons, a label for each track is shown.

Style Edit: Copy

Here you can copy a track, Chord Variation or Style Element inside the same Style, or from a different one. Furthermore, you can copy a whole Style.

Warning: The Copy operation deletes all data at the target location (overwrite).



After setting the various parameters, press Execute

Note: If you copy too many events on the same "tick", the "Too many events!" message appears, and the copy operation is aborted.

Note: When you copy over an existing Chord Variation, Program Change data is not copied, to leave the original Sounds unchanged for that Chord Variation.

From Style

Choose this option to select the source Style to copy the track, Chord Variation or Style Element from. Press the Select button to open the Style Select window and select the source Style.

From... To E/CV (Style Element/Chord Variation)

Use these parameters to select the source and target Style Elements or Chord Variations.

Note: You can't copy from a Variation to a different Style Element (or vice-versa), because of their different structure.

All	All Style Elements, i.e. the whole Style. You can't
	change the target, that is automatically set to All.

Var1...End2 Single Style Element.

V1-CV1...E2-CV2

Single Chord Variation.

From... To Track

Use this parameter to select the source and target track to copy. You can double a track, to strengthen a pattern.

- All tracks of the selected Style, Style Element or All Chord Variation.
- Drum-Acc5 Single track of the selected Style, Style Element or Chord Variation.

Execute

Press this button to execute the operation set in this page.

Track status icon

Status of tracks. Press this icon to change the status.

\mathbf{N}	Play status. The track can be heard.	

M Mute status. The track cannot be heard.

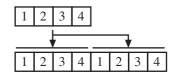
Track names

Under the buttons, a label for each track is shown.

Copying to a Chord Variation of a different lenath

You can copy a Chord Variation to a different one of a different length. Just keep in mind the following:

If the source length is a divider of the target length, the source Chord Variation will be multiplied to fit the target Chord Variation. For example, if the source is 4-measures long, and the target 8-measures, the source will be copied two times.



If the source length is not a divider of the target length, the source Chord Variation will be copied for as many measures as can fit the target Chord Variation. For example, if the source is 6-measures long, and the target 8-measures,

the source will be copied once, then the fist 2 measures will be copied to fit the remaining 2 measures.

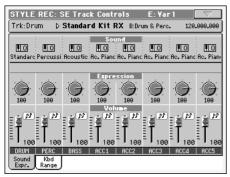
1	2	3	4	5	6		
			/				
1	2	3	4	5	6	1	2

Note: Avoid copying to a Chord Variation with a different meter, for example a 4/4 Chord Variation onto a 3/4 one.

Style Element Track Controls: Sound/ Expression

In this page you can assign a different Sound to each track of the selected Style Element. Each Style Element can have different Sound; after saving the new Style, please don't forget to check the "Original Style Sounds" parameter in the Style Play mode (see page 78), to let the Style select the Sound bypassing the Style Performance settings.

In this page you can also modify the Expression (CC#11) value for each of the Style Element tracks. This lets you reduce the relative level of a track in a single Style Element, without reducing the overall Volume of the Style. This is a very useful control, when you have different Sounds assigned to the same track in different Style Elements, and the internal level of these Sounds must be different.



When in this page, press the corresponding button on the control panel to select a Style Element (VARIATION1 ... ENDING2).

To copy the settings of this page to another Style Element, use the "Copy Sound" and "Copy Expression" commands from the page menu (see "Copy Sounds dialog box" and "Copy Expression dialog box" starting from page 121).

Selected Track Info area

►STYLE

See "Selected track info area" on page 103 for detailed information.

Sounds area

See "Sounds area" on page 105 for detailed information.

Expression area

►STYLE

Use these knobs to set the Expression (CC#11) value for the corresponding track. This value can be seen at the beginning of the Event Edit list (see "Event Edit: Event Edit" on page 109).

Different Expression values can be defined for each Style Element. This way, you can set a different volume in each Style Element, relative to the general Volume value set in the Style Header.

Volume area

Use these controls to set the volume and status of each track. See page 104 for more information.

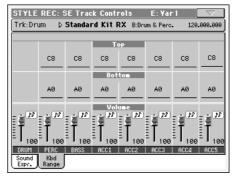
The Volume value is the same for the whole Style. Use the Expression controls to adjust the relative balance between tracks in each Style Element.

Style Element Track Controls: Keyboard Range

The Keyboard Range automatically transposes any pattern note that would otherwise play too high or too low in pitch, compared to the original acoustic instrument, when transposed by the arranger. This will result in a more natural sound for each accompaniment instrument.

For example, the lower limit for a guitar is E2. If you play a chord under the E2, the transposed pattern could exceed this limit, and sound unnatural. A Bottom limit set to E2 for the guitar track will solve the problem.

Different Keyboard Range values can be set for each Style Element.



Note: The Keyboard Range is ignored while recording. The selected track can play on the full range of the keyboard.

When in this page, press the corresponding button on the control panel to select a Style Element (VARIATION1 ... ENDING2).

To copy the settings of this page to another Style Element, use the "Copy Keyboard Range" command from the page menu (see "Copy Key Range dialog box" on page 121).

Top/Bottom

►STYLE

Use these parameters to set the bottom and top of the keyboard range for the corresponding track of the current Style Element.

STYLE

Volume area

Use these controls to set the volume and status of each track. See page 104 for more information.

Style Element Chord Table: Chord Table

This is the page where you can assign a Chord Variation to each of the most important recognized chord. When a chord is recognized, the assigned Chord Variation will be automatically selected by the arranger to play the accompaniment.

STYLE REC: SE C	nord lable	E: ¥ar 1 🔽
Major: 🕨 CV1	min6: 🕨 CV1	dimMaj 7: 🕨 CV 1
6: 🕨 CV1	min7: 🕨 CV1	aug: 🕨 CV1
Maj 7: 🕨 CV 1	min7b5: 🕨 CV1	aug7: 🕨 CV1
Maj 7 b5: 🕨 CV 1	minMaj 7: 🕨 CV 1	augMaj 7: 🕨 CV 1
sus 4: 🕨 CV 1	7: DV1	No 3: 🕨 CV1
sus2: DV1	7 b5: 💽 CV1	No3 5: 🕨 CV1
Maj7s4: 🕨 CV1	7 sus 4: 🕨 CV 1	
minor: 🕨 CV1	dim: 💽 CV1	
Chord Table		

When in this page, press the corresponding button on the control panel to select a Style Element (VARIATION1 ... ENDING2).

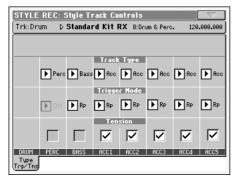
Chord / Chord Variation

►STYLE

Use these parameters to assign a Chord Variation to each of the most important chords.

Style Track Controls: Type/Trigger/Tension

In this page you can set the Mode, Retrigger mode for the Style tracks, and activate/deactivate the Tension for the Accompaniment tracks.



When in this page, press the corresponding button on the control panel to select a Style Element (VARIATION1 ... ENDING2).

Track Type

▶STYLE

Use this parameter to set the type of the corresponding track.

Drum Drum track. This type of track is not transposed by the arranger, and is used for Drum Kits made of Drum sounds. It can be affected by the Drum Mapping of the Style Play mode (see "Drum Mapping (Var.1...Var.4)" on page 91).

- Perc Percussion track. This type of track cannot be transposed, and is used for Drum Kit made of Percussion sounds. It is NOT affected by the Drum Mapping.
- Bass Bass track. This type of track always plays the root when changing chord.
- Acc Accompaniment track. This type of track can be used freely, for melodic or harmonic accompaniment patterns.

Trigger Mode

This setting lets you define how Bass and Acc-type tracks are retriggered when the chord is changed.

- Off Each time you play a new chord, current notes will be stopped. The track will remain silent until a new note will be encountered in the pattern.
- Rt (Retrigger) The sound will be stopped, and new notes matching the recognized chord will be played back.
- Rp (Repitch) New notes matching the recognized chord will be played back, by repitching notes already playing. There will be no break in the sound. This is very useful on Guitar and Bass tracks.

Tension

Tension adds notes (a 9th, 11th and/or 13th) that have actually been played to the accompaniment, even if they haven't been written in the Style pattern. This parameter specifies whether or not the Tension included in the recognized chord will be added to the Acc-type tracks.

- On The Tension will be added.
- Off No Tension will be added.

►STYLE

►STYLE

Import: Import Groove

The Import Groove function allows the loading of MIDI Grooves (".GRV" files) generated by the Slice function (see "Time Slice" on page 215 in the Sampling mode). By importing these data to a track, and assigning the Sound based on the sliced samples to the same track, you can play the original audio groove, and freely change its tempo.

STYLE REC: Import	∇
Import Groove	
From: 🕨 GROOVE01	To E/CY: 🕨 V1-CV1 To Track: 🕨 Drum
Exe	ecute
Groove SMF	

Note: After importing a groove generated by a melody line (not by a percussive groove), the imported groove and samples will not be transposed together with the other Style tracks. Audio data cannot be transposed by the arranger.

Note: Please execute the Import Groove operation before turning the instrument off. All ".GRV" files generated by a Time Slice operation are deleted when turning the instrument off.

From

Use this parameter to select one of the MIDI Groove patterns (".GRV" files) generated when saving data after a Time Slice operation.

To E/CV (Style Element/Chord Variation)

Use this parameter to select the target Style Element and Chord Variation.

To Track

Use this parameter to select the target track inside the selected Chord Variation. **The Percussion track is usually suggested**, since the Drum track is still suitable for standard Drum Kit sounds (count-in, break etc.). After importing the MIDI Groove pattern, assign the Sound, to which the sliced samples are assigned, to the track playing the MIDI Groove pattern.

Import: Import SMF

The Import SMF function allows you to import MIDI data from a Standard MIDI File (SMF) created on your preferred external sequencer, and transform them in a Chord Variation.

Note: You cannot use this function to import data from any generic Song. The Standard MIDI File to be imported must be programmed as if it was one of Pa1X's Chord Variations.

STYLE REC: Import	
- Import SMF	
From Song: <no song=""></no>	Select
Initialize	
To E/1	CV: 🕨 V1-CV1
Execute	
Groove SMF	

When importing an SMF, parameters like CV Length, Meter, Tempo Changes, Program Changes and Expression are recognized. These parameters will be imported as the header of the Style Element containing the Chord Variation, provided the "Initialize" parameter is checked, or the Style Element is empty.

Hint: It is a good idea to check the "Initialize" parameter when importing the first Chord Variation of a Style Element, and uncheck it when importing the following Chord Variations.

• Sounds assigned to each track can be imported, provided the Program Change, Bank Select MSB and LSB events are on the first 'tick' of the SMF. These data are loaded in the Style Element's header, and not as Sounds assigned to the Style Performance.

Note: Sounds in the Style Element header can be overridden by Sounds assigned to the Style Performance, by checking the "Original Style Sound" parameter in the main page of the Style Play mode (Style Track view).

• If the above data was not found on the first 'tick' of the imported SMF, Sounds must be manually assigned to each track. You can do this in the "Record 1" or "Record 2", or the "Sound/ Expression" page of the Style Record mode,.

• Key/Chord, Chord Table, Expression, and any other Style Variation parameter, must be manually programmed in the relevant Style Record pages.

• The starting Tempo, and each track's Volume, must be programmed as Style Performance data, and then saved in the Style Performance.

• Meter Change is not allowed, therefore not recognized.

• The Chord Variation length is the same as the imported SMF. You can change length by changing the value of the CV Length parameter, on the main page of the Style Record mode.

Hint: If a note extends beyond the last measure of the Chord Variation, an additional measure is appended (for example, if a note extends after the end of the fourth measure in a 4-measure pattern, a 5-measure Chord Variation will be generated). If so, change the CV Length value to reset the Chord Variation length. The exceeding note will be cut, to fit the new pattern length. When programming a Chord Variation on an external sequencer, please assign each Style track to the correct MIDI channel, according to the following table.

MIDI Channel(s)	Pa1X Track
9	Bass
10	Drum
11	Percussion
12-16	Accompaniment 1-5

Note: Only SMF in format 0 can be loaded.

From Song

This is the name of the Standard MIDI File to be loaded. Press the Select button to open the file selector, and select an ".SMF" file.

Select

Press this button to open the file selector and load the SMF.

Initialize

Check this parameter if you want all settings of the target Style Element (i.e., Key/Chord, Chord Table, Sounds...) are reset when loading the SMF.

Hint: It is a good idea to check the "Initialize" parameter when importing the first Chord Variation of a Style Element, and uncheck it when importing the following Chord Variations.

To E/CV

Use this parameter to select a target Chord Variation.

Execute

After setting all parameters in this page, press this button to import the Standard MIDI File into the target Chord Variation.

Export SMF

The Export SMF function allows you to export a Chord Variation as a Standard MIDI File (SMF), and edit it on your preferred external sequencer.

STYLE REC:	
To Song:	V1-CV1
	From E/CV: 🚺 V1-CV1
	Execute
SMF	

To Song

This (non-editable) parameter shows the name of the Standard MIDI File to be generated. The (automatically assigned) name will be the same of the exported Chord Variation.

From E/CV

Use this pop-up menu to select one of the available Chord Variations from the current Style.

Execute

After selecting a Chord Variation, press this button to export it as a Standard MIDI File. A standard file selector will appear. Select the target device and directory, then press Save.

Page menu

Press the page menu icon to open the page menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.

Write Style
Undo
Copy Sound
Copy Expression
Copy Keyboard Range
Copy Chord Table
Delete Current Track
Overdub Step Recording
Solo Track
Exit from Record

Write Style

Select this command to open the Write Style dialog box, and save the Style to the internal memory.

See "Write Style dialog box" on page 120 for more information.

Undo

Only available in Record mode. While in Record mode, cancels the latest recorded data and restores the previous situation. Selected a second time, it restores recorded data again ("Redo" function).

Copy Sound

While the Style Element Track Control edit section is selected, use this command to open the Copy Sound dialog box and copy all Sounds assigned to the current Style Element tracks to a different Style Element.

See "Copy Sounds dialog box" on page 121 for more information.

Copy Expression

While the Style Element Track Control edit section is selected, use this command to open the Copy Expression dialog box and copy all Expression values assigned to the current Style Element tracks to a different Style Element.

See "Copy Expression dialog box" on page 121 for more information.

Copy Keyboard Range

While the Style Element Track Control edit section is selected, use this command to open the Copy Keyboard Range dialog box and copy all Keyboard Range values for the current Style Element tracks to a different Style Element.

See "Copy Key Range dialog box" on page 121 for more information.

Copy Chord Table

Only available while in the Style Element Chord Table page. Select this command to open the Cpy Chord Table dialog box (see "Copy Chord Table dialog box" on page 121).

Delete Current Track

Select this command to delete the selected track.

Overdub Step Recording

Select this command to open the Overdub Step recording window (see "Overdub Step Recording window" on page 122).

Solo Track

Select the track to be soloed, then check this item. You will hear only the selected track, and the 'Solo' warning will flash on the page header.

Uncheck this item to exit the Solo function.

Exit from Record

Select this command to exit from Record without saving changes to the Style.

Write Style dialog box

Open this window by choosing the Write Style item from the page menu. Here you can save the recorded or edited Style to memory, by choosing either a User or Direct HD bank.

Write Style			
Name:	T Funky Ballad		
	To		
Style Bank:	18-User 1		
Style:	01 – MegaFunky		
Canc	el OK		

Parameters saved in the Style are marked with the **STYLE** symbol through the user's manual.

Name

►STYLE

Name of the Style to be saved. Press the **T** (Text Edit) button next to the name to open the Text Edit window.

Style Bank

Target bank of Styles. Each bank corresponds to one of the STYLE SELECT buttons. Use TEMPO/VALUE controls to select a different bank.

Style

Target Style location in the selected bank. Use TEMPO/VALUE controls to select a different location.

Note: A User Style is usually prompted when writing a Style. However, you can overwrite a Factory Style, when the "Factory Style and Pad Protect" parameter is left unchecked (see page 265).

Select... button

Press this button to open the Style Select window, and select a target location.

While in the Style Select window, use the buttons on top of the window to select either the User or the Direct HD banks.

Copy Sounds dialog box

Open this window by choosing the Copy Sounds item from the page menu. Here you can copy all Sounds assigned to the current Style Element tracks to a different Style Element.

Copy Sounds			
From Style Element Var 1			
To			
Style Element: 🕨 All			
Cancel OK			

From Style Element

Non editable. Currently selected Style Element.

To Style Element

Target Style Element.

All Settings will be copied to all Style Variation of the Style in edit.

Var1...CountIn

Single Style Element where to copy settings to.

Copy Expression dialog box

Open this window by choosing the Copy Expression item from the page menu. Here you can copy all Expression values assigned to the current Style Element tracks to a different Style Variation.

Copy Expre	ession
From Style Elen	nent Var 1
To	
10	
Style Element: 🕨 (411
Cancel	ОК

From Style Element

Non editable. Currently selected Style Element.

To Style Element

Target Style Element.

All Settings will be copied to all Style Variation of the Style in edit.

Var1...CountIn

Single Style Element where to copy settings to.

Copy Key Range dialog box

Open this window by choosing the Copy Keyboard Range item from the page menu. Here you can copy all Keyboard Range values for the current Style Element tracks to a different Style Variation.

Copy Key Range
From Style Element Var 1
То
Style Element: 🕨 All
Cancel OK

From Style Element

Non editable. Currently selected Style Element.

To Style Element

Target Style Element.

All Settings will be copied to all Style Variation of the Style in edit.

Var1...CountIn

Single Style Element where to copy settings to.

Copy Chord Table dialog box

Open this window by choosing the Copy Chord Table item from the page menu. Here you can copy the Chord Table of the current Style Element to a different Style Element.

Copy Chord Table	l
From Style Element Var 1	
To	
10	
Style Element: 🕨 All	
Cancel OK	

To Style Element

Target Style Element.

All Settings will be copied to all Style Variation of the Style in edit.

Var1...CountIn

Single Style Element where to copy settings to.

Overdub Step Recording window

The Step Record allows you to create a new Style by entering single notes or chords to each track, by playing them on the keyboard one at a time, with no need to play on time. This is very useful when transcribing an existing score, or needing a higher grade of detail, and is particularly suitable to create drum and percussion tracks.

To access this page, select the "Overdub Step Recording" command from the page menu.



Track (Selected track)

Name of the selected track in record.

DRUM...ACC5

Style track.

SE (Selected Style Element)

See "Element (Style Element)" on page 102.

CV (Selected Chord Variation)

See "Chord Var (Chord Variation)" on page 102.

Pos (Position)

This is the position of the event (note, rest or chord) to be inserted.

Event list

Previously inserted events. You may delete this event, and set it in edit again, by pressing the Back button.

Step Time values

Length of the event to be inserted.

o ··· •	Note value.
Standard (-)	Standard value of the selected note.
Dot (.)	Augments the selected note by one half of its value.
Triplet (3)	Triplet value of the selected note.

Meter

Meter of the current measure. This parameter cannot be edited. You can set the Meter in the main page of the Style Record mode, before actually starting recording (see step 6 on page 105 for more information).

Free Memory

Remaining memory for recording.

Duration

Relative duration of the inserted note. The percentage is always referred to the step value.

25%	Staccatissimo.
50%	Staccato.
85%	Ordinary articulation.
100%	Legato.

Velocity

Set this parameter before entering a note or chord. This will be the playing strength (i.e., velocity value) of the event to be inserted.

- Kbd Keyboard. You can select this parameter, by turning all counter-clockwise the dial. When this option is selected, the playing strength of the played note is recognized and recorded.
- 1...127 Velocity value. The event will be inserted with this velocity value, and the actual playing strength of the note played on the keyboard will be ignored.

Rest

Press this button to insert a rest.

Tie

Press this button to tie the note to be inserted to the previous note.

Back

Goes to the previous step, erasing the inserted event.

Next M. (Next Measure)

Goes to the next measure, and fills the remaining space with rests.

Done

Exits the Step Record mode.

Pad Record mode

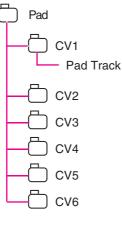
By entering the Pad Record mode, you can create your own Pads, or edit an existing Pad.

The Pad structure

A Pad is basically a single-track Style. Most of what applies to Style recording also applies to Pad recording.

There are two different categories of Pads:

- "Hit" Pads. While they are mostly used as non-transposing events, they can also be transposing notes or chords. Basically, they are single-note or single-chord Sequences (see below).
- "Sequence" Pads, i.e., complex single-track patterns, that can be transposed by playing different chords on the keyboard exactly as a Style track. They are roughly equivalent to single-element, single-track, multi-chord variation Styles (see illustration).



Each Pad is made up of up to six smaller units, called **Chord Variations** (**CV**). Each Chord Variation is made of a single track (the Pad track).

Exactly as with the Styles, when playing a chord in the chord recognition area, the corresponding Chord Variation is recalled. Recorgnized chords are associated to a Chord Variationby means of the **Chord Variation Table**. Each Pad contains a Chord Variation Table.

As with the Styles, the **Note Transposition Tables** (**NTT**) applies to the Pads.

What to record

Recording a Pad is a matter of recording a single track, inside a series of Chord Variations, inside the Pad itself.

You don't need to record all Chord Variations. It is often only needed to record just a Chord Variation.

Pattern data vs. track data

While the Pad Record mode is where you can create or edit music patterns for the Pad, track parameters (like Sounds, Volume, Pan, Octave Transpose, FX settings...) have to be edited in Style Play mode.

- After creating or editing music patterns in Pad Record mode, save them by selecting the Write Pad command from the page menu of the Pad Record mode (see "Write Pad dialog box" on page 133).
- After editing track parameters in Style Play mode, save them to the Performance or STS by selecting the Write Performance or Write STS command from the page menu of the Style Play mode (see "Write Performance dialog box" on page 95 or "Write Single Touch Setting dialog box" on page 96).

Entering the Style Record mode

To enter Pad Record mode, go to the Style Play mode and press REC. The Style/Pad Record Select window appears.

STYLE/PAD RECORD		
Current Style: British Pop 1		
Record/Edit Current Style		
C Record New Style		
C Record/Edit Pad		
C Record New Pad		
Cancel OK		

- Select **Record/Edit Pad** to select an existing Pad to edit. If it is a Factory Pad, you may not be able to save it at the original location (depending on the status of the "Factory Style and Pad Protect parameter in the ->Disk->Preferences page); you will select a User Pad location instead.
- Select Record New Pad to start from a new, empty Pad. When finished recording, you will save the new Pad into a User Pad location. (Pads can be saved into Factory Pad locations only when the "Factory Style and Pad Protect" parameter is set to Off).

When you have finished recording or editing the Hit or Sequence Pad, please save it (see "Exit by saving or deleting changes" below) and exit the Pad Record mode.

Then, go to the Pad page of the Style Play or Song Play mode, assign the new Hit or Sequence to a Pad button, and adjust the various track settings (Volume, Pan, and C/D FX Send... see "Pad/Switch: Pad" on page 92). Finally, save the Performance or STS by selecting the "Write Performance" or "Write STS" command from the page menu.

Note: While in Record mode, the footswitch and EC5 pedals are disabled. On the contrary, volume/expression-type pedals can be used.

Exit by saving or deleting changes

When finished editing, you can save your Pad in memory, or cancel any change.

• To save changes, select the "Write Pad" command from the page menu (see "Write Pad dialog box" on page 133).

• To cancel all changes, select the "Exit from Record" command from the page menu, or press the REC button, to exit from record and return to the main page of the Style Record mode.

Hint: Save often while recording, to avoid accidentally losing your *Pad.*

Listening to the Pad while in Record/Edit mode

While you are in Pad Record or Pad Edit mode, you can listen to the selected Chord Variation. To select a Chord Variation, go to the Main page of the Record/Edit mode.

- When you are in the Main, Event Edit, Quantize, Transpose, Velocity, or Delete pages, you can listen to the selected Chord Variation. Press START/STOP to check how it works. Press START/STOP again to stop the playback.
- When you are in the Sounds/Expression, Keyboard Range, Chord Table, Trigger/Tension, Delete All, Copy, Style Element Controls or Style Control pages, you can listen to the whole Pad. Press START/STOP and play some chords to do your tests.

Note: In this mode, the pattern is always played back in loop, even if the "Pad Type" parameter is set to "One Shot" (see page 130).

Note: While in Pad Record mode, the Fingered 3 Chord Scanning mode is automatically selected.

Main page - Pad Record

The Main page of the Pad Record mode looks like a simplified version of the Main page of the Style Record mode, with just a single track to be recorded and no Style Elements to be chosen. The only addition is the "Pad Sync" parameter.

PAD RECORD	T: 0	∇
🗏 🔛 Pad: New Style	• =	HERE M: 1
Chord Var:▶cv1	Rec Length: 2	Tempo J: 120
Resolution: 🕨 High	CV Length: 2	Meter: <u>4/4</u>
Pad Sync: 🕨 Off	Metro: 🕨 Off	NTT: 🕨 Fifth
Pad Track: 🗅 Standa	rd Kit RX B:Drum	& Perc.
KO KO	ey: 🕨 C	Delete Note
금 글 😂 다	nord: 🕨 Maj	
VOLUME		

Please look at the User's Manual for more information on the various parameters. Only general information and differences with the Style Record mode are described here.

Recording parameters area

Chord Var (Chord Variation)

This parameter lets you select one of the six available Chord Variations (CV1 ... CV6) for editing or recording.

Note: When this parameter and the assigned value is in small letters (cv1...cv6), the Chord Variation is empty; when it is in capitals (CV1...CV6), it is already recorded.

Resolution

Use this parameter to set the quantization during recording.

Pad Sync

This parameter allows you to set a synchronization mode for the Pad's pattern.

▶ PAD

Off No synchronization. The sequence will start as soon as you press the PAD button.

Continued The pattern will start immediately, in sync with the arranger's or active sequencer's tempo. Depending on the current position of the beat counter, it might not start from its very beginning; instead, it will continue from the current position.

For example, if the arranger's or sequencer's beat counter shows the third beat, and is playing tick 91, the Pad will start from its third beat, at tick 91.



This works exactly as if it was a Fill.

Beat The sequence will start at the next beat, in sync with the arranger's or sequencer's tempo. It will start from its very beginning (i.e., tick 1 or measure 1).

Rec Length (Recording Length) PAD

This parameter sets the recording length (in measures) of the sequence. Its value is always equal to, or a divider of, the Chord Variation Length (see next parameter).

Warning: If you assign CV Length a value lower than Rec Length, the value of Rec Length is not immediately updated in the display. Therefore, you are still free of changing the value of CV Length, before the measures exceeding its value are deleted (see warning in "CV Length (Chord Variation Length)" below).

However, if you press START/STOP to begin recording, the real Rec Length value is changed to the new one, even if the display still shows the old value.

CV Length (Chord Variation Length) PAD

This parameter sets the total length (up to 32 measures) for the selected Chord Variation. When playing a Style, this will be the length of the accompaniment pattern, when the chord corresponding to the Chord Variation is recognized on the keyboard.

Warning: If you reduce the Chord Variation Length after recording, any measure after the selected length will be deleted. Be very careful when setting the CV Length to a lower value after recording! If it happens, we suggest to exit from record without saving (see "Exit from Record" on page 133).

Metro (Metronome)

This is where you can set the metronome.

- Off No metronome click will be heard during recording. In any case, a one-bar precount will be played before starting recording.
- On1 Metronome on, with a one-bar precount before starting recording.
- On2 Metronome on, with a two-bar precount before starting recording.

Tempo

Select this parameter to use TEMPO/VALUE controls to set the tempo.

Note: This value will not be recorded, and will only be used for testing the pattern at various speeds while editing or recording.

Hint: You can always change the Tempo, when other parameters are selected, by keeping the SHIFT button pressed, and rotating the DIAL.

Meter

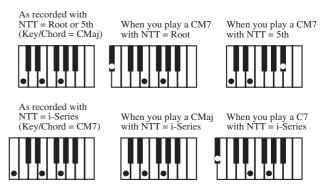
▶ PAD

This is the meter (time signature) of the sequence. You can edit this parameter only when the sequence is empty, i.e. before you begin recording anything.

NTT (Note Transposition Table)

The Note Transposition Table (NTT) determines how the arranger will transpose pattern notes, when a chord is recognized that does not exactly match the original chord of a Chord Variation. For example, if you only recorded a Chord Variation for the CMaj chord, when a CMaj7 is recognized on the keyboard the arranger must transpose some notes to create the missing 7th.

- Root The root note (in CMaj = C) is transposed to the missing notes.
- Fifth The 5th note (in CMaj = G) is transposed to the missing notes.
- i-Series The original pattern must be programmed on the "Maj7" or "min7" chords.
- NoTrnsp No transposition table is applied. The pattern will always play as recorded, with no added notes. However, it will be transposed to other keys, depending on the played chord.



Note: The NTT does not work if the "Track Type" parameter is set to "Drum".

Pad Track info area

This line lets you see the Sound assigned to the selected track.

Pad Track:	▷ Stand	ard Kit	RX	B:Dru	um & Perc.	120.000.002
			So	und	bank	
	Sound	l name			Prog	ıram Change

Sound name

Sound assigned to the Pad track. The triangle means you can press the name to open the Sound Select window, and select a different Sound.

Sound bank

Bank the selected Sound belongs to.

Program Change

Program Change number. Shown only when the "Show Program Change number" parameter is turned on in Global mode.

Tracks volume/status area

Octave Transpose

This (non-editable) indicator shows the current octave transposition. To change this value use the OCTAVE TRANSPOSE buttons on the control panel.

While this value is not memorized with the Pad, the transposition is used during recording. For example, if you play a C4 and a + 1 octave transposition is selected, a C5 is recorded.

▶PAD

▶ PAD

►PAD

Virtual slider

The virtual slider in the display shows the track's volume. To change the volume, touch the slider and use TEMPO/ VALUE controls to change the value.

This value is not saved with the Pad, and is only used to test the Pad's volume during editing or recording.

Track status icons

Status of the track. Press this icon to change the status.

Record status. After starting recording, the track will receive notes from the keyboard and the MIDI IN connector.

Mute status. The track cannot be heard.

Key/Chord area

Key/Chord

▶PAD

This parameter pair allows you to define the track's original key and chord type, for the current Chord Variation. When playing the pattern back, this chord will be played back exactly as it was recorded, without any NTT processing (see above).

Delete Note button

When a track is selected, you can use this command to delete a single note or a single percussive instrument.

If the Pad is playing, this shortcut deletes the instrument only while the key is kept pressed, leaving all other notes untouched within the track.

Pad Record procedure

Recording a Pad is very similar to recording a Style. Please see the relevant chapter in the User's manual.

Edit menu

When pressing the MENU button while in Pad Record mode, the Pad Record Edit Menu will appear.

PAD RECORD Menu		
	Main Page	
Event Edit	Pad Edit	Pad Track Controls
Pad Chord Table	Import	Export SMF

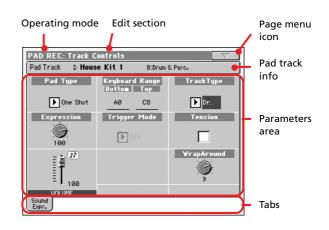
Note: The Pad Edit pages are a simplified version of the Style Edit pages. See the User's manual for information on the various parameters.

Note: While the Pad is in play, you cannot access the Edit section pages from the main page (see page 124). Stop the playback before pressing MENU.

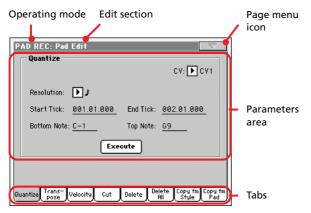
Note: When switching from the Edit section pages (Quantize, Transpose, Velocity, Delete) to the other pages, or vice-versa, the Pad (if in play) is automatically stopped.

Edit page structure

Most edit pages share some basic elements.



Other pages exhibit a slightly different structure.



Operating mode

This indicates that the instrument is in Pad Record mode.

Edit section

This identifies the current edit section, corresponding to one of the items of the edit menu (see "Edit menu" on page 126).

Page menu icon

Press this icon to open the page menu (see "Page menu" on page 132).

Parameters area

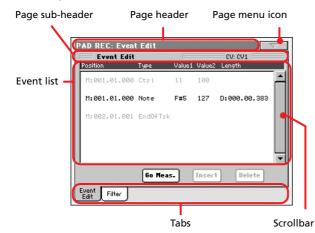
Each page contains various parameters. Use the tabs to select one of the available pages. For detailed information on the various types of parameters, see sections starting from page 127.

Tabs

Use tabs to select one of the edit pages of the current edit section.

Event Edit: Event Edit

The Event Edit is the page where you can edit each single MIDI event of the selected Chord Variation. You can, for example, replace a note with a different one, or change its playing strength (i.e., velocity value).



This is very similar to the Style Record's Event Edit page. See the User's Manual for more information on the event editing procedure.

Pad Edit: Quantize

The quantize function may be used to correct any timing mistake after recording, or to give the pattern a "groovy" feeling.

PAD REC: Pad Edit			∇
Quantize		CV: 🕨 (21
Resolution: 🕨 🎜			
Start Tick: <u>001.01.000</u>	End Tick:	002.01.000	
Bottom Note: <u>C-1</u>	Top Note:	<u>G9</u>	
Exe	aute		
Quantize Trans- Velocity Cut		lete Copy fm All Style	Copy fm Pad

After setting the various parameters, press Execute.

CV (Chord Variation)

Use this parameters to select the Chord Variation for editing.

Resolution

This parameter sets the quantization after recording.

Start / End Tick

Use these parameters to set the starting and ending points of the range to quantize.

Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to quantize.

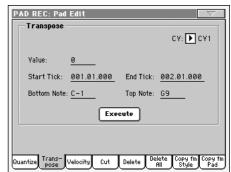
Execute

Press this button to execute the operation set in this page.

Pad Edit: Transpose

In this page you can transpose the selected track(s).

Note: After transposing, please don't forget to readjust the "Key/ Chord" parameter in the main page of the Pad Record mode (see page 126).



After setting the various parameters, press Execute.

CV (Chord Variation)

Use this parameters to select the Chord Variation for editing.

Value

Transpose value (± 127 semitones).

Start / End Tick

Use these parameters to set the starting and ending points of the range to be transposed.

Bottom / Top Note

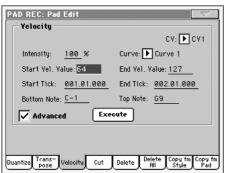
Use these parameters to set the bottom and top of the keyboard range to be transposed.

Execute

Press this button to execute the operation set in this page.

Pad Edit: Velocity

In this page you can change the velocity (dynamics) value of notes in the selected track.



After setting the various parameters, press Execute.

CV (Chord Variation)

Use this parameters to select the Chord Variation for editing.

Value

Velocity change value (±127).

Intensity

(Only available in Advanced mode). Use this parameter to specify the degree to which the velocity data will be adjusted toward the curve you specify in "Curve".

Curve

(*Only available in Advanced mode*). Use this parameter to select from six types of curve, and specify how the velocity will change over time.

Start / End Vel. Value

(*Only available in Advanced mode*). Velocity change at the starting and ending ticks of the selected range.

Start / End Tick

Use these parameters to set the starting and ending points of the range to be modified.

Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to be modified.

Advanced

When this checkbox is checked, the "Intensity", "Curve", "Start Velocity Value" and "End Velocity Value" parameters can be edited.

Execute

Press this button to execute the operation set in this page.

Pad Edit: Cut

This function lets you quickly delete a selected measure (or a series of measures) from the selected Chord Variation. All following events are moved back, to replace the cut measure(s).

PAD REC: Pad Edit	CV: D CV1
Start: <u>1</u>	Length: <u>1</u>
	Execute
Quantize Trans- Velocity	Cut Delete Delete Copy fm Copy fm

After setting the various parameters, press Execute.

CV (Chord Variation)

Use this parameters to select the Chord Variation for editing.

Start

First measure to be cut.

Length

Number of measures to be cut.

Execute

Press this button to execute the operation set in this page.

Pad Edit: Delete

This page is where you can delete MIDI events out of the Pad. This function does not remove measures from the pattern. To remove whole measure, use the Cut function (see "Pad Edit: Cut" on page 128)



After setting the various parameters, press Execute.

CV (Chord Variation)

Use this parameters to select the Chord Variation for editing.

Event

Type of MIDI event to delete.

- J F • • • • • • • •	
All	All events. The measures are not removed from the Chord Variation.
Note	All notes in the selected range.
Dup.Note	All duplicate notes. When two notes with the same pitch are encountered on the same tick, the one with the lowest velocity is deleted.
After Touch	After Touch events.
	<i>Note: This kind of data is automatically removed during recording.</i>
Pitch Bend	Pitch Bend events.
Prog.Change	Program Change events, excluding the bundled Control Change #00 (Bank Select MSB) and #32 (Bank Select LSB).
	<i>Note: This kind of data is automatically removed during recording.</i>
Ctl.Change	All Control Change events, for example Bank Select, Modulation, Damper, Soft Pedal
CC00/32CC	C127 Single Control Change events. Double Control Change numbers (like 00/32) are MSB/LSB bun- dles.

Note: Some CC data are automatically removed during recording. See the table in the User's Manual for more information on the allowed data.

Start / End Tick

Use these parameters to set the starting and ending points of the range to delete.

Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to delete.

Note: These parameters are available only when the All or Note option is selected.

Execute

Press this button to execute the operation set in this page.

Pad Edit: Delete All

This function lets you quickly delete a single Chord Variation, or the whole Pad.

PAD REC: Pad Edit	∇
Delete All	CY: 🕨 A11
Execute	
Quantize Trans-Velocity Cut Dele	ete Delete Copy fm Copy f All Style Pad

After setting the various parameters, press Execute.

CV (Chord Variation)

Use this parameters to select the Chord Variation to be deleted.

- All All Chord Variations, i.e. the whole Pad. After deletion, all parameters are set to the default status.
- CV1...CV6 Single Chord Variation.

Execute

Press this button to execute the operation set in this page.

Pad Edit: Copy from Style

Here you can copy a track from a Style, and transform it into a Pad pattern.

Warning: The Copy operation deletes all data at the target location (overwrite).

PAD REC: Pad Edit	
Сору	
From Style: 01- Moonlight B	Ballad Select
From E/CV: 🕨 Var1	To CV: 🕨 All
From Track: 🕨 Drum	
Exec	cute
Quantize Trans- Velocity Cut	Delete Delete Copy fm Copy f All Style Pad

After setting the various parameters, press Execute.

Note: If you copy too many events on the same "tick", the "Too many events!" message appears, and the copy operation is aborted.

Note: When you copy over an existing Chord Variation, Program Change data is not copied, to leave the original Sounds unchanged for that Chord Variation.

From Style

Choose this option to select the source Style to copy the track from. Press the **Select** button to open the Style Select window and select the source Style.

From E/CV (Style Element/Chord Variation)

Use this parameter to select the source Style Element and Chord Variation.

Var1...End2 A single Style Element, i.e., all Chord Variations.

V1-CV1...E2-CV2

A single Chord Variation.

From Track

Use this parameter to select the source track to copy.

Drum-Acc5 Single track of the selected Style Element or Chord Variation.

To CV (Chord Variation)

Use this parameter to select a target Chord Variation inside the current Pad.

CV1...CV6 Target Chord Variation.

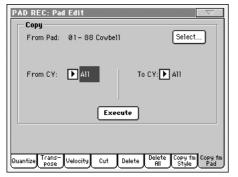
Execute

Press this button to execute the operation set in this page.

Pad Edit: Copy from Pad

Here you can copy a Chord Variation from a different Pad. Furthermore, you can copy a whole Pad.

Warning: The Copy operation deletes all data at the target location (overwrite).



After setting the various parameters, press Execute.

Note: If you copy too many events on the same "tick", the "Too many events!" message appears, and the copy operation is aborted.

Note: When you copy over an existing Chord Variation, Program Change data is not copied, to leave the original Sounds unchanged for that Chord Variation.

From Pad

Choose this option to select the source Pad to copy the Chord Variation from. Press the **Select** button to open the Pad Select window and select the source Pad.

From CV (Chord Variation)

Use this parameter to select the source Chord Variation.

All	All Chord Variations, i.e. the whole Pad. You can't
	change the target, that is automatically set to All.

CV1...CV6 Single Chord Variation.

To CV (Chord Variation)

Use this parameter to select a target Chord Variation inside the current Pad.

CV1...CV6 Target Chord Variation. Automatically set to All it the "From CV" parameter is also set to All.

Execute

Press this button to execute the operation set in this page.

Pad Track Controls: Sound/Expression

In this page you can assign a Sound to the Pad track, adjust its Volume (CC#07) and Expression (CC#11) values, and set various other parameters, like the Keyboard Range, Track Type, Trigger Mode, Tension and Wrap Around.



Sound/Bank

Sound assigned to the Pad track.

Pad Type

▶PAD

▶ PAD

Use this parameter to decide if the Pad will play once or if it will loop.

Note: While in Pad Record mode, the pattern is always played back in loop, even if this parameter is set to "One Shot".

- One Shot When you press one of the PAD buttons, the corresponding Pad is only played once. This is useful for playing Hits or Sequences than must only play once.
- Loop When you press one of the PAD buttons, the corresponding Pad plays up to the end, then continues playing from the start. Press STOP in the PAD section to stop it playing. This is useful for playing cyclic sequences.

►PAD

Expression

Use this knob to set the Expression (CC#11) value for the Pad track. This value can be seen at the beginning of the Event Edit list.

The Expression is useful to balance the Pad with the other Pads. For example, if you want the Pad you are recording is mellower than the average, just lower the Expression value.

Volume

Use this slider to set the Volume (CC#07) value for the Pad track. This value is not saved with the Pad, and is only used to test the Pad's volume during editing or recording.

Keyboard Range

▶PAD

►PAD

The Keyboard Range automatically transposes any pattern note that would otherwise play too high or too low in pitch, compared to the original acoustic instrument, when transposed by the arranger. This will result in a more natural sound for the Pad instrument.

Note: The Keyboard Range is ignored while recording. The Pad track can play on the full range of the keyboard.

Trigger Mode

▶PAD

▶ PAD

▶PAD

(*Not available if Track Type* = Drum). This setting lets you define how Bass and Acc-type tracks are retriggered when the chord is changed.

- Off Each time you play a new chord, current notes will be stopped. The track will remain silent until a new note will be encountered in the pattern.
- Rt (Retrigger) The sound will be stopped, and new notes matching the recognized chord will be played back.
- Rp (Repitch) New notes matching the recognized chord will be played back, by repitching notes already playing. There will be no break in the sound. This is very useful on Guitar and Bass tracks.

Track Type

Use this parameter to set the type of the Pad track.

- Drum Drum track. This type of track is not transposed by the arranger, and is used for Drum Kits, or for tracks that you don't want to be transposed when playing a different chord.
- Bass Bass track. This type of track always plays the root when changing chord.
- Acc Accompaniment track. This type of track can be used freely, for melodic or harmonic accompaniment patterns.

Tension

Tension adds notes (a 9th, 11th and/or 13th) that have actually been played, even if they haven't been written in the Pad pattern. This parameter specifies whether or not the Tension included in the recognized chord will be added to an Acc-type track.

- On The Tension will be added.
- Off No Tension will be added.

Wrap Around

The wrap-around point is the highest register limit for the Pad track. The Pad pattern will be transposed according to the detected chord. If the chord is too high, the Pad track might play in a register that is too high, and therefore unnatural. If, how-ever, it reaches the wrap-around point, it will be automatically transposed an octave lower.

The wrap-around point can be individually set in semitone steps up to a maximum of 12 semitones, relative to the chord root set in the main page of the Pad Record mode (see "Key/Chord" on page 126).

1...12 Maximum transposition (in semitones) of the track, referred to the original key of the Pad pattern.

Pad Chord Table

This is the page where you can assign a Chord Variation to each of the most important recognized chord. When a chord is recognized, the assigned Chord Variation will be automatically selected by the arranger to play the Pad track.

PAD REC: Chord T	able	
Chord Table		
Major: 🕨 CV1	min6: 🕨 CV1	dimMaj 7: 🕨 CV 1
6: DV1	min7: 🕨 CV1	aug: 🕨 CV1
Maj 7: 🕨 CV 1	min7b5: 🕨 CV1	aug 7: 🕨 CV 1
Maj 7 b5: 🕨 CV 1	minMaj7: ▶ CV1	aug Maj 7: 🕨 C V 1
sus 4: 🕨 CV1	7: DV1	No 3: 🕨 CV1
sus2: 🕨 CV1	7 b5: 🕨 CV 1	No3 5: 🕨 CV1
Maj 7 s4: 🕨 CV 1	7 sus 4: 🕨 C V 1	
minor: 🕨 CV1	dim: 🕨 CV 1	
Chord Table		

Chord / Chord Variation

Use these parameters to assign a Chord Variation to each of the most important chords.

Import: Import Groove

The Import Groove function allows the loading of MIDI Grooves (".GRV" files) generated by the Slice function (see "Time Slice" in the Sampling mode). By importing these data to the Pad track, and assigning the Sound based on the sliced samples to the same track, you can play the original audio groove, and freely change its tempo.

PAD REC: Import
Import Groove
From: No Grooves! To DCV1
Groove

▶PAD

From

Use this parameter to select one of the MIDI Groove patterns (".GRV" files) generated when saving data after a Time Slice operation.

To CV (Chord Variation)

Use this parameter to select the target Chord Variation.

Import: Import SMF

The Import SMF function allows you to import MIDI data from a Standard MIDI File (SMF) created on your preferred external sequencer, and transform them in a Chord Variation.

PAD REC: Import	∇
Import SMF	
From Song: <no song=""></no>	Select
Initialize	
То	► CV1
Execute	
Groove	

When programming a Chord Variation on the external sequencer, please assign the Pad track to the MIDI channel #10.

Note: Only SMF in format 0 can be loaded.

From Song

This is the name of the Standard MIDI File to be loaded. Press the Select button to open the file selector, and select an ".SMF" file.

Select

Press this button to open the file selector and load the SMF.

Initialize

Check this parameter if you want all Pad settings (i.e., Key/ Chord, Chord Table, Sound...) are reset when loading the SMF.

Hint: It is a good idea to check this parameter when importing the first Chord Variation of the Pad, and uncheck it when importing the following Chord Variations.

To CV

Use this parameter to select a target Chord Variation.

Execute

After setting all parameters in this page, press this button to import the Standard MIDI File into the target Chord Variation.

Export: SMF

The Export SMF function allows you to export a Chord Variation as a Standard MIDI File (SMF), and edit it on your preferred external sequencer.

PAD REC: Ex	port SMF		
Export SI	1F		
To Song:	V1-CV1		
		From	▶ CV1
	0	Execute	
SMF			

To Song

This (non-editable) parameters shows the name of the Standard MIDI File to be generated. The (automatically assigned) name will be the same of the exported Chord Variation.

From CV

Use this pop-up menu to select one of the available Chord Variations from the current Pad.

Execute

After selecting a Chord Variation, press this button to export it as a Standard MIDI File. A standard file selector will appear. Select the target device and directory, then press Save.

Page menu

Press the page menu icon to open the page menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.



Write Pad

When done recording or editing a Pad, and you want to save the changes, select this command to open the Write Pad dialog box, and save the Pad to the internal memory.

See "Write Pad dialog box" on page 133 for more information.

Undo

Only available in the Main page of the Pad Record mode, and in some Pad Edit pages. While in Record mode, cancels the latest recorded data and restores the previous situation. Selected a second time, it restores recorded data again ("Redo" function).

Delete Pad Track

Only available in the Main page of the Pad Record mode. Select this command to delete the Pad track.

Overdub Step Recording

Only available in the Main page of the Pad Record mode. Select this command to open the Overdub Step recording window (see the Style Record chapter in the User's Manual for more information).

Exit from Record

Select this command to exit from Record without saving changes to the Pad.

Write Pad dialog box

Open this window by selecting the Write Pad item from the page menu. Here you can save the recorded or edited Pad to memory.

	₩rite Pad
Name:	T AAH!
	To
Pad Bank:	USER
Pad:	01 - MNLIGHT
Can	:e1 OK

Parameters saved in the Pad are marked with the **PAD** symbol through the user's manual.

Name

▶PAD

Name of the Pad to be saved. Press the **T** (Text Edit) button next to the name to open the Text Edit window.

Pad Bank

Target Pad bank. Only User banks can be selected.

Pad

Target Pad location in the selected bank. Use TEMPO/VALUE controls to select a different location.

Note: A User Pad is usually prompted when writing a Pad. However, you can overwrite a Factory Pad, when the "Factory Style and Pad Protect" parameter is left unchecked (see page Disk->Preferences).

Select... button

Press this button to open the Pad Select window, and select a target location.

Song Play operating mode

The Song Play operating mode is where you can listen to Songs. Since the Pa1X is equipped with two onboard sequencers, you can play two Songs at the same time. This is very useful to mix between two Songs during a live performance. Songs can be in Standard MIDI File, Karaoke[™], MP3 or Audio CD format (MP3 Player and Audio CD Player available as options).

You can play along with the Song with up to four Keyboard tracks (Upper 1-3, Lower). You can select different Sounds and Effects for Keyboard tracks by selecting Performances and STSs. A different Voice Processor Preset may be selected by a Performance or STS.

While in Song Play, you can use the SongBook to automatically select Songs for a desired music genre. With each Song entry in the SongBook, up to four STSs are associated.

Transport controls

You can use the separate transport controls for each of the two onboard sequencers. Use the SEQUENCER 1 controls for Sequencer 1, and SEQUENCER 2 controls for Sequencer 2. See "SEQUENCER 1 TRANSPORT CONTROLS" on page 10 for more information).

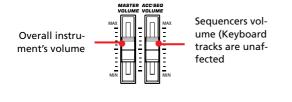
MIDI Clock

In Song Play mode the MIDI Clock is always generated by the internal sequencer, even if the Clock parameter is set to MIDI (see "Clock Source" on page 230). While in this mode, Pa1X cannot receive MIDI Clock messages from the MIDI IN.

Pa1X transmits to the MIDI OUT only the MIDI Clock message generated by Sequencer 1.

Master Volume, Sequencer Volume, Balance

While the MASTER VOLUME slider controls the general volume of the instrument, you can use the ACC/SEQ VOLUME slider to control only Sequencer's tracks volume. This lets you adjust the Sequencer's volume alone, while Keyboard tracks are not affected by this slider.



Use the BALANCE slider to mix between Sequencer 1 and Sequencer 2. Move it to the center for the maximum volume of both sequencers.



Track parameters

Keyboard track settings made in Song Play mode may be saved to a Performance. You can recall different settings by just selecting a different Performance.

Settings for Song tracks, like pan, volume and FX sends, depend on the midifile.

Changes to Song tracks made in Song Play mode cannot be saved to the midifile, and are intended just for realtime editing. To permanently save changes to the various Song parameters, use Sequencer mode.

Standard MIDI Files and Sounds

The native Song file format of the Pa1X is the Standard MIDI File (SMF), an universal standard set by all manufacturers. You can read these files with any musical instrument or computer.

A difference could be in the sound played by each track. If you recorded a Song with the Pa1X (Sequencer mode), using only General MIDI sounds, you can play the same Song on virtually any other musical instrument or computer. If you used Korg native sounds, you cannot play back the same sounds on instruments from other brands.

When you read SMFs in Song Play mode, there is no problem reading files made using only General MIDI sounds. Sounds could be different when playing a Song made on a different instrument: despite the wide compatibility of Pa1X with other, non-standard formats, differences may arise.

If so, go to the Sequencer operating mode and load the SMF. Then, manually reassign the non-matching Sounds, replacing them with similar Sounds on the Pa1X. Then, save the SMF again, and you will be able to play it in Song Play mode with the correct Sounds.

NRPN Sound parameters

GM-compliant Standard MIDI Files can contain NRPN (#99, 98) Control Change messages. These messages are used to modify some Sound parameters before starting a Song. The following NRPN messages are recognized by the Pa1X:

NRPN	CC#99 (MSB)	CC#98 (LSB)	CC#06 (Data Entry)
Vibrato Rate	1	8	0127 ^(a)
Vibrato Depth	1	9	0127 ^(a)
Vibrato Decay	1	10	0127 ^(a)
Filter Cutoff	1	32	0127 ^(a)
Resonance	1	33	0127 ^(a)
EG Attack Time	1	99	0127 ^(a)
EG Decay Time	1	100	0127 ^(a)
EG Release Time	1	102	0127 ^(a)
Drum Filter Cutoff	20	dd ^(b)	0127 ^(a)
Drum Filter Resonance	21	dd ^(b)	0127 ^(a)
Drum EG Attack Time	22	dd ^(b)	0127 ^(a)
Drum EG Decay Time	23	dd ^(b)	0127 ^(a)
Drum Coarse Tune	24	dd ^(b)	0127 ^(a)
Drum Fine Tune	25	dd ^(b)	0127 ^(a)
Drum Volume	26	dd ^(b)	0127
Drum Panpot	28	dd ^(b)	0127 ^(a)
Drum Rev Send (FX 1)	29	dd ^(b)	0127 ^(a)
Drum Mod Send (FX 2)	30	dd ^(b)	0127 ^(a)

(a). 64 = No change to the original parameter's value (b). dd = Drum Instrument No. 0...127 (C0...C8)

Note: These control *s* are reset when stopping the Song, or selecting

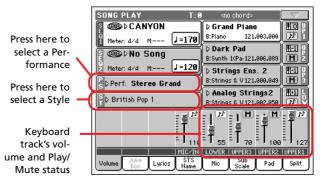
a new Song.

Keyboard, Pad and Sequencer tracks

The Pa1X is equipped with a double sequencer. Each Song can play a maximum of 16 tracks, for a total of 32 sequencer tracks.

In addition, you can play on the keyboard with four additional Keyboard tracks (Upper 1-3 and Lower). You can edit the Volume and Play/Mute status for these tracks on the main page of the Song Play mode (see illustration below).

While in Song Play mode, you can still select Performances or STSs from the latest selected Style. To select a different set of STSs, you can first select a different Style.



In addition to Keyboard tracks, selecting a different Performance or STS may change sounds assigned to the PADs.

When you enter Song Play mode from the Style Play mode, Keyboard and Pad tracks are the same as in Style Play mode.

Main page

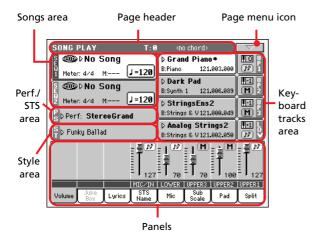
Press SONG PLAY to access this page from another operating mode.

To access this page from another operating mode, press the SONG PLAY button.

Note: When switching from Style Play to Song Play, the Song Setup is automatically selected, and various track parameters may change.

To return to this page from one of the Song Play edit pages, press the EXIT or SONG PLAY button.

To switch between Keyboard tracks (Normal view) and Song tracks (Song Tracks views), use the TRK. SEL. (TRACK SELECT) button. Pressed a first time, you will see tracks 1-8; a second press will show tracks 9-16; pressed again, you will go back to Keyboard tracks. (See "Song Tracks 1-8 and 9-16 pages" and "Volume panel" starting from page 139).



Page header

This line shows the current operating mode, transposition and recognized chord.

SONG PLAY	T:0 <no i<="" th=""><th>chord></th></no>	chord>
T	T	T
Operating mode name	Master Transpose (in semitones)	Recognized chord

Operating mode name

Name of the current operating mode.

Master transpose

▶PERF ▶STS^{SB}

Master transpose value in semitones. This value can be changed using the TRANSPOSE buttons on the control panel.

Note: Transpose may be automatically changed when selecting a different Performance. It may also be changed when loading a Standard MIDI File generated with an instrument of the Korg Pa series.

To avoid transposing, "lock" the Master Transpose parameter in the Global (see "General Controls: Lock" on page 227), then write the Global to memory (see "Write Global - Global Setup dialog box" on page 251).

Recognized chord

Displays the recognized chord, when you play a chord on the keyboard. If no chord abbreviation is shown, no chord recognition mode has been selected by using the CHORD SCANNING buttons (see page 11).

Page menu icon

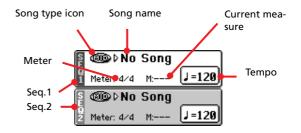
Press the page menu icon to open the menu. See "Page menu" on page 151 for more information.



Songs area

This is where Song names are shown, together with parameters depending on the selected type of Song.

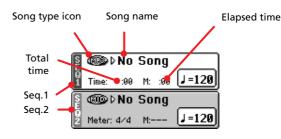
• The following illustration shows parameters appearing when a *Standard MIDI Files* has been selected.



• The following illustration shows parameters appearing when an *Audio CD Track* has been selected.



• The following illustration shows parameters appearing when an *MP3 file* has been selected.

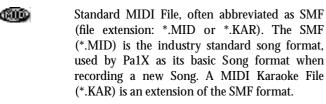


Seq. 1/2

A different Song may be assigned to each of the two onboard sequencers (Seq.1 and Seq.2). Each sequencer has its own parameters.

Song type icon

Songs of different types can be assigned to the sequencers. This icon shows the file type.



MPEG Layer-3 format, or MP3 (file extension: *.MP3) – available with the EXBP-MP3 option installed. *Only assignable to one of the sequencers at a time*. This is a compressed audio file, that may be generated on any personal computer, or on the Pa1X itself.

Note: If starting an MP3 file's playback on a Sequencer, another MP3 file running on the other Sequencer will be stopped. You cannot play two MP3 files at the same time.

Note: If running an MP3 from a Data CD, and the CD is not spinning, it may take some time before the playback begins, since the CD needs a few seconds to start spinning again.



(JBX)

Audio CD Track – available with the CDRW-1 option installed. Only assignable to one of the sequencers at a time

Only assignable to Sequencer 1. A Jukebox file (file extension: *.JBX) can be assigned to Sequencer 1, but its name is not shown in this area. The JBX icon appears, together with the name of the currently selected Song in the Jukebox list.

Note: To create or edit a Jukebox file, go to the Jukebox Edit page (see page 147).

Song name

Displays the name of the Song assigned to the corresponding sequencer.

• If the sequencer is already selected (white background), press the Song name to open the Song Select window.

• If the sequencer is not selected (dark background), first select it, then press the Song name to open the Song Select window.

When the Song Select window appears, you can select a single Song or a Jukebox file (see "Song Select window" on page 74).

If you select another Song while a Song is in play within the same Sequencer, the old Song stops, and the new Song will be selected, ready to play.

To select a Song, you can also press the SELECT button (on the control panel) corresponding to the desired sequencer. Press SELECT a second time to select a Song by dialing in its ID number (see "Selecting a Song by its ID number" on page 75).



Meter

This parameter appears when a Standard MIDI File (or a Karaoke file) has been selected.

Current Song meter.

Measure number

This parameter appears when a Standard MIDI File (or a Karaoke file) has been selected.

Current measure number.

Total time

This parameter appears when an Audio CD Track or an MP3 file has been selected.

Total length (in minutes:seconds) of the selected Audio CD Track or MP3 file.

Elapsed time

This parameter appears when an Audio CD Track or an MP3 file has been selected.

Elapsed time (in minutes:seconds) of the Audio CD Track or MP3 file currently in play.

Tempo

This parameter appears when a Standard MIDI File (or a Karaoke file) has been selected.

Metronome tempo. Select this parameter and use the TEMPO/ VALUE controls to change the tempo. As an alternative, you don't need to select this parameter; just keep the SHIFT button pressed and use the DIAL to change the tempo of the selected sequencer.

Note: While in the main page, you can have the Tempo parameter of Sequencer 2 selected, while Sequencer 1 is selected. Use the DIAL to change Tempo for Sequencer 2, and SHIFT + DIAL to change Tempo for Sequencer 1.

All Songs

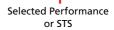
This checkbox appears when an Audio CD Track has been selected.

Check this parameter to play all CD tracks, starting from the selected one.

Performance/STS area

This is where the Performance or STS name is shown.





Selected Performance or STS

This is the last selected Performance (PERF) or Single Touch Setting (STS).

Press the name to open the Performance Select window. As an alternative, use the PERFORMANCE/SOUND SELECT section to select a different Performance.

To select a different STS, use the four SINGLE TOUCH SET-TING buttons under the display.



Style area

Currently selected Style. You can select a Style while playing Songs, to have it ready when switching to Style Play mode.

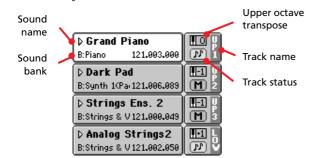
Press the Style name to open the Style Select window. As an alternative, use the STYLE SELECT section on the control panel. By selecting a different Style, you can also select a different set of STSs.



Selected Style

Keyboard tracks area

This is where Keyboard tracks are shown.



Sound name

▶PERF ▶STS^{SB}

Name of the Sound assigned to the corresponding Keyboard track.

• If the track is already selected (white background), press the Sound name to open the Sound Select window.

• If the track is not selected (dark background), first select it, then press the Sound name to open the Sound Select window.

Sound bank

Bank the current Sound belongs to.

Program Change

▶PERF ▶STS^{SB}

▶PERF ▶STS^{SB}

Program Change number. Shown only when the "Show Program Change number" parameter is turned on in Global mode. (See page 228).

Keyboard track name

Non editable. Name of the corresponding track:

UP1	Upper 1
UP2	Upper 2
UP3	Upper 3
LOW	Lower

Keyboard track octave transpose

▶PERF ▶STS^{SB}

Non editable. Octave transpose of the corresponding track. To individually edit the octave transpose for each track, go to the "Mixer/Tuning: Tuning" edit page of the Song Play mode (see "Mixer/Tuning: Tuning" on page 84 for more details).

You can also transpose all Upper tracks by using the UPPER OCTAVE buttons on the control panel.

Keyboard track status

▶PERF ▶STS^{SB}

Play/mute status of the current track. Press this icon to change the status.

Note: You can save this setting into the Global-Song Play Setup (by choosing the "Write Global-Song Play Setup" command from the page menu), to leave the track status unchanged when selecting a different Standard MIDI File. This way, you can leave, for example, the bass track in mute, and let you bassist play it live.

However, the above is not true when reading a Standard MIDI File created with a Pa-Series instrument. These files do include special commands to force the Play/Mute status of each track.

Play status. The track can be heard.

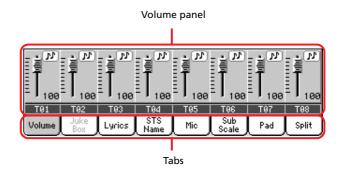
Mute status. The track cannot be heard.

 \mathbf{M}

M

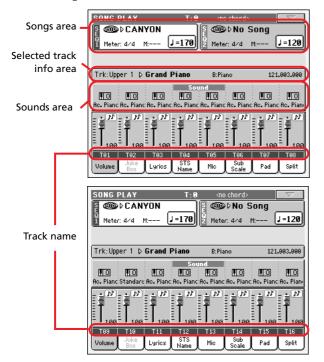
Panels

The lower half of the main page contains the various panels, you can select by pressing the corresponding tabs. See more information in the relevant sections, starting from page 140.



Song Tracks 1-8 and 9-16 pages

Repeatedly press the TRK. SEL. button to cycle between the Normal, Song Tracks 1-8 and Song Tracks 9-16 view. In Song Track views, the upper half of the main page changes, to show parameters for the Song tracks.



Press TRK. SEL. again to return to Normal view (Keyboard tracks). (See "Main page" on page 136).

Songs area

Despite a different layout, it works as the Song area in the Normal view.

Selected Track Info area

This line lets you see the Sound assigned to the selected track. Not only it is shown on the main page, but also in several edit pages.



Track name

Name of the selected track.

Sound name

Sound assigned to the selected track. Press anywhere in this area to open the Sound Select window, and select a different Sound.

Sound bank

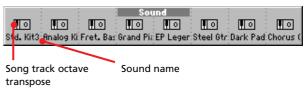
Bank the selected Sound belongs to.

Program Change

Program Change number. Shown only when the "Show Program Change number" parameter is turned on. in Global mode (see page 228).

Sounds area

This area lets you see Sounds and octave transposition for the eight tracks currently displayed.



Song track octave transpose

Non editable. Octave transpose of the corresponding track. To edit the octave transpose, go to the "Mixer/Tuning: Tuning" edit page of the Song Play mode (see "Mixer/Tuning: Tuning" on page 84 for more details).

Sound name

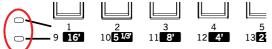
Name of the Sound assigned to the track. Touch a name a first time to select the corresponding track (detailed information are shown on the Selected Track Info area, see above). Touch it a second time to open the Sound Select window.

Volume panel

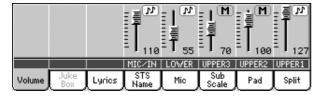
Press the Volume tab to select this panel. This is where you can set the volume of each track, and mute/unmute tracks.

Use the TRK. SEL. (TRACK SELECT) button to switch from Normal (Keyboard and Mic/In tracks) to Song Tracks 1-8 and Song Tracks 9-16 views.

If the VOLUME LED above the SLIDER MODE button is turned on, the Assignable Sliders LEDs show which view is currently selected.



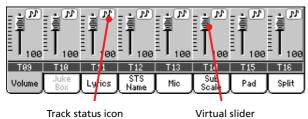
The *Normal view* shows grouped Style tracks, Mic/In controls, Keyboard tracks (upper sliders LED turned on):



The *Song Tracks 1-8 view* shows individual Song tracks 1-8 (third sliders LED turned on):

ריינ ד 100	100	1 100	1 100	100	₽ 100	₽ 100	100
T01	T02	T03	T04	T05	T06	T07	T08
Volume	Juke Box	Lyrics	STS Name	Mic	Sub Scale	Pad	Split

The *Song Tracks 9-16 view* shows individual Song tracks 9-16 (last sliders LED turned on):



Virtual sliders (track volume)

▶PERF ▶STS^{SB}

Virtual sliders are a graphical display of each track's volume. Use the Assignable Sliders to change this value (provided the VOL-UME LED is turned on above the SLIDER MODE button, see below).

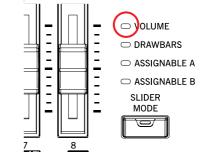
As an alternative, press the track's area to select a track, and use TEMPO/VALUE controls to change the value.

The volume of Keyboard tracks may be saved to a Performance.

Assignable Sliders function



Use the SLIDER MODE button to select the function assigned to the Assignable Sliders. When the VOLUME LED is turned on, each Assignable Slider controls the volume of the corresponding track.



The assigned function may be saved to a Performance. Therefore, when selecting a Performance, the assigned function may change.

Track status icons

▶PERF ▶STS^{SB}

Play/mute status of the current track. Select the track, then press this area to change the track status. The status of Keyboard tracks may be saved to a Performance or STS.

See "Keyboard track status" on page 138 for more information.

Play status. The track can be heard.



Mute status. The track cannot be heard.

Track names

Under the sliders, a label for each track is shown. Use the TRK. SEL button to switch between the various track views.

MIC/IN	Audio inputs. [*]
UPPER13	Upper tracks.
LOWER	Lower track.
T01T16	Song tracks. [*]

[*] Volume for these tracks is not memorized.

Jukebox panel

When a Jukebox (JBX) file is assigned to Sequencer 1, you can use the list shown in this panel to browse the Jukebox list, and press the Select button in the display to select a Song to play. This way, you can select any Song in the list as your starting Song, and manually change the order of the Songs to play.

Note: A Jukebox file can be assigned to Sequencer 1 only.

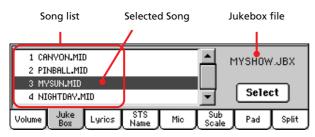
Note: This panel is only available after loading a Jukebox file.

Hint: To create or edit a Jukebox file, go to the Jukebox Edit page (see page 147).

Warning: Should you delete a Song included in the Jukebox list currently in play, the sequencer will stop, and the "No Song" message will appear. At this point, you can select the JukeBox tab to open the Jukebox panel, and select a different Song.

As an alternative, you can select the next Song by pressing SHIFT + >> (FAST FORWARD) in the SEQUENCER 1 section of the con-

trol panel, then press **■** *> (PLAY/STOP) in the SEQUENCER 1 section again.*



Song list

Use this list to browse through the Songs in the Jukebox list. Use the scrollbar to scroll the list.

Selected Song

Name of the Song currently in play. You can select a different Song from the list, and press the Select button in the display to selected it for playback.

Select button

Press this button to select the Song highlighted in the list, and assign it to Sequencer 1. If a Song is already playing, it will be stopped, and the selected Song will start playing back.

Jukebox file

Name of the selected Jukebox file. To edit this file, see "Jukebox Editor" on page 147.

Transport controls for the Jukebox

When you select a Jukebox file, Sequencer 1 transport controls work in a slightly different way than with single Songs.

<< and >> Pressed alone, these buttons are the Rewind and Fast Forward commands.

SHIFT Keep the SHIFT button pressed, and press these buttons to scroll to the previous or next Song in the Jukebox list.

- PAUSE Pauses the Song at the current position. Press PAUSE or ■► (PLAY/STOP) to start the Song playing again.
- ► (PLAY/STOP)

Starts or stops the current Song. When you stop the Song, the sequencer goes back to measure 1 of the current Song.

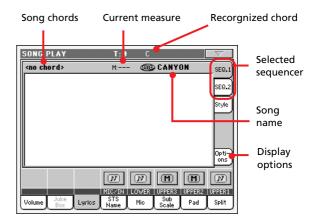
If the Jukebox panel is open, you can select the Song from which to start. See "Jukebox panel" above.

Lyrics panel

This panel shows the lyrics and chord abbreviations included in a Song, or loaded as a ".TXT" file with the Song. You can see the following types of Lyrics:

- Lyrics included in Standard MIDI Files
- Lyrics included in Karaoke[™] files
- Lyrics included in MP3 files (in ID3 format see <u>www.id3.org</u>)
- Lyrics loaded as a ".TXT" file with a Standard MIDI File, Karaoke[™] or MP3 file (see "Text files loaded with Standard MIDI Files and MP3 files" below)

Lyrics will be shown only if they are compatible with a standard format that Pa1X can understand.



While the Song is playing, the text flows in the display. Chord abbreviations (if any) will appear above the lyrics, in time with the music (depending on the "Show Chords" parameter status, under the Options side tab). Lyrics at the current position are highlighted.

Song chords

Chords contained in the midifile (if any). This indicator may be easier to read than chords shown within the lyrics.

Current measure

Current measure number.

Recognized chord

Chords played on the keyboard, and recognized by the chord scanning engine.

Selected sequencer (SEQ 1/SEQ 2)

Use these side tabs to select a sequencer whose Song to show.

Note: You can have Sequencer 2 selected in the Main page of the Song Play mode, and Sequencer 1 selected in the Lyrics page, or vice-versa. This way, you can select a Song whose lyrics to display on the external video monitor, while selecting a different sequencer for editing operations.

Song name

Song assigned to the selected sequencer. Use the side tabs SEQ 1 and SEQ 2 to select a sequencer whose Song to show.

Options

Press this side tab to access the Options panel, and adjust the various video settings (see details below).

Display Controls Characters: Small Link int and ext video Show chords	SEQ.1 SEQ.2 Style
TXT File	Opti-
Text Follow: External Video	ons

Display Controls

Use these parameters to define how lyrics are shown in the display.

Characters

► GBL^{Sng}

Size of fonts. You can choose between a smaller and a bigger font.

Link int and ext video

► GBL^{Sng}

► GBL^{Sng}

When checked, settings for the internal display are automatically mirrored to the external video monitor.

Show chords

If this parameter is checked, chords are shown above lyrics in the display – provided the midifile contains them.

TXT File – Text Follow

► GBL^{Sng}

When linking a ".TXT" file to a Song, you scroll the text by using the Text Down and Text Up assignable commands. Unlike the reading of Lyrics events contained in a Standard MIDI File, there is no automatic scrolling, that make the current verse start on top of the internal and the external display at the same time.

Therefore, text shown in the internal display and in the external video might begin with a different verse. This parameter lets you choose the internal or the external display as the one that must be perfectly lined.

- Int. Video When pressing the control corresponding to the Text Down command, the first line of the current page of text is shown on top of the internal video. The external video might not be perfectly lined. Choose this option if you are reading verses from the internal display.
- Ext. Video When pressing the control corresponding to the Text Down command, the first line of the current page of text is shown on top of the external video. The internal video might not be perfectly lined. Choose this option is your audience is reading verses from an external video.

Note: When this option is selected, the text scrollbar disappears from the internal display.

Text files loaded with Standard MIDI Files and MP3 files

When a ".TXT" file exists in the same directory as a Standard MIDI File or MP3 file, and shares exactly the same name, it will be loaded with the ".MID" or "MP3" file, and can be seen in the Lyrics page.

As an example, if the file "MYSONG.TXT" exists in the same directory as the "MYSONG.MID" or "MYSONG.MP3" file, it is loaded together with the matching ".MID" or ".MP3" file.

However, unlike ordinary Lyrics, the text will not scroll automatically while the Song is playing back. You must use an assignable switch or footswitch, with the Text Page Up or Text Page Down functions assigned, to scroll (respectively) to the previous or next text page.

Note: When a ".TXT" file is loaded with the Song, it overrides any included Lyrics data.

STS Name panel

Select this panel to see the name of the four available STSs. See "STS Name panel" on page 80 for details.

Mic panel

Select this panel to set parameters for the microphone input. See "Mic panel" on page 80 for details.

Sub-Scale panel

Select this panel to select a secondary scale for the Keyboard tracks. See "Mixer/Tuning: Sub Scale" on page 84 for details.

Pad panel

Select this panel to see which Hit or Sequence Pads are assigned to the four Pads. See "Pad panel" on page 81 for details.

Split panel

Select this panel to adjust the split point for the Keyboard tracks. See "Split panel" on page 81 for details.

Edit menu

From any page, press the MENU button to open the Song Play edit menu. This menu gives access to the various Song Play edit sections for the currently selected sequencer (see "Songs area" on page 139).

When in the menu, select an edit section, or press EXIT or SONG PLAY to exit the menu.

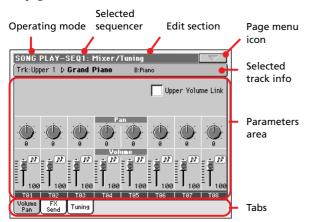
When in an edit page, press the EXIT or SONG PLAY button to go back to the main page of the Song Play operating mode.



Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by pressing the corresponding tab on the lower part of the display.

Edit page structure

All edit pages share some basic elements.



Operating mode

This indicates that the instrument is in Song Play mode.

Selected sequencer

Before entering edit, select one of the two sequencers, by using the Song area of the main page (see "Switching between sequencers during editing" below).

Edit section

This identifies the current edit section, corresponding to one of the items of the edit menu (see "Edit menu" on page 143).

Page menu icon

Press this icon to open the page menu (see "Page menu" on page 151).

Parameters area

Each page contains various parameters. Use the tabs to select one of the pages. For detailed information on the various types of parameters, see sections starting from page 143.

Tabs

Use tabs to select one of the edit pages of the current edit section.

Switching between sequencers during editing

When you enter Edit mode, you can edit the selected sequencer's parameters. The selected sequencer is always shown on the page header.

SONG PLAY	-SEQ1:	Mixer/	Tuning
Turk Users of		D.:	

To select a sequencer, go to the main page of the Song Play mode, and select the sequencers you wish to edit. The selected sequencer is shown with a white background.

S	®®⊳No	Song	
Q 1	1eter: 4/4	M:	J=120
Ş	®®⊳No	Song	

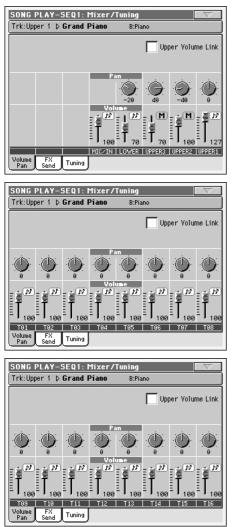
Mixer/Tuning: Volume/Pan

This page lets you set the volume and pan for each of the Keyboard or Song tracks.

Note: Song parameters cannot be saved when saving to a Performance or STS.

Note: A muted track may be reset when selecting a different Song.

Use the TRK. SEL. button to switch from the Keyboard to the Song tracks, and vice versa.



Upper Volume Link

This parameter allows you to define if changing the volume for one of the Upper tracks, proportionally changes also the volume for the other Upper tracks.

To save this parameter status, go to the Style Play mode, then select the Write Global-Style Play Setup from the page menu (see "Write Global-Song Play Setup dialog box" on page 151).

Note: This parameter is the same you can find in the "Preferences: Global Setup" page of the Style Play mode (see page 94).

- On When changing volume to one of the Upper tracks, volume for the other Upper tracks changes in proportion.
- Off When changing volume to one of the Upper tracks, only that track's volume is changed. Other Upper tracks are left unchanged.

▶PERF ▶STS^{SB}

► GBL^{Sty}

Track position in the stereo field.

-64...-1 Left stereo channel.

0 Center.

Pan

+1...+63 Right stereo channel.

Off

If the track's output status is Left&Right (normal setting), the direct (uneffected) signal is not sent to the outputs; only the FX signal is heard for this track.

If the track is sent to a separate output, no FX is sent to any output.

To program the output status for each track, see "Audio Output: Seq1" and "Audio Output: Seq2" on page 233.

Volume

▶PERF ▶STS^{SB}

Track's volume.

0...127 MIDI value of the track's volume.

Play/Mute icon

▶PERF ▶STS^{SB} ▶GBL^{Sng}

Track's play/mute status. See "Keyboard track status" on page 138 for more information.

 \mathbf{M}

 (\mathbf{M})

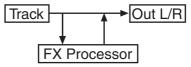
Play status. The track can be heard. Mute status. The track cannot be heard.

Mixer/Tuning: FX Send

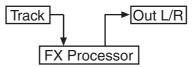
This page lets you set the level of the track's direct (uneffected) signal going to the Internal FX processors.

Note: Song parameters cannot be saved when saving to a Performance or STS.

The effect processors included in Pa1X are connected in parallel, so you can decide which percentage of the direct signal can be effected:



In case you do not want to send a track's direct signal to the output, but only the effected signal (as when using "insert" effects, like Rotary, Distortion, EQ...), just set the Pan to Off (see "Pan" above):



There are four Internal FX processors in Song Play mode. Usually, they are arranged as follows:

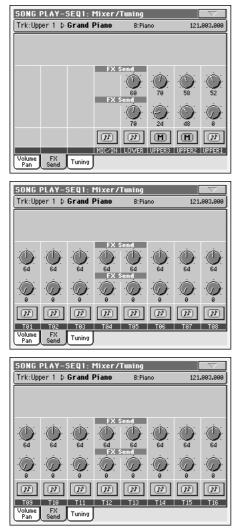
FX A	Reverb processor for Sequencer 1 and 2.
FX B	Modulating FX processor for Sequencer 1 and 2.

- FX C Reverb processor for Keyboard tracks.
- FX D Modulating FX processor for Keyboard tracks.

Depending on the status of the "Seq.2 FX Mode" parameter, Sequencer 2 might use the C/D effect pair (see page 150).

Furthermore, in Sequencer mode you can create Songs using all four effects (see "Effects: FX Select" on page 175).

Use the TRK. SEL. button to switch from Keyboard to Song tracks, and vice-versa.



Note: When you stop, then start the Song again, or select a different Song, the default Song track settings are selected again. You can, however, pause the Song, change the effects, then exit fro pause and start the Song again. Edit the Song in Sequencer mode to permanently change the effects.

Send level (A...D)

▶PERF ▶STS^{SB}

0...127 Level of the track (direct) signal sent to the effect processor.

Play/Mute icon

▶PERF ▶STS^{SB} ▶GBL^{Sng}

Track's play/mute status. See "Keyboard track status" on page 138 for more information.

Play status. The track can be heard.



Mute status. The track cannot be heard.

Mixer/Tuning: Tuning

Parameters in this page let you set various tuning settings. See "Mixer/Tuning: Tuning" on page 84 for details.

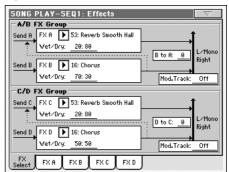
Parameters

▶PERF ▶STS^{SB}

Note: Song track values edited in this page are not saved, and are only intended for realtime use.

Effects: FX Select

This page allows you to select effects to be assigned to the four Internal FX processors (A-D).



Note: When you stop the Song, or select a different Song, the default effects are selected again. You can, however, stop the Song, change the effects, then start the Song again. Edit the Song in Sequencer mode to permanently change the effects.

FX A...D

▶PERF ▶STS^{SB} ▶GBL^{Sng}

▶PERF ▶STS^{SB} ▶GBL^{Sng}

▶PERF ▶STS^{SB} ▶GBL^{Sng}

▶PERF ▶GBL^{Sng}

Effects assigned to the corresponding effect processors. Usually, A and C are reverbs, while B and D are modulating effects (chorus, flanger, delay...). For a list of the available effects, see "Effects" on page 322.

Wet/Dry

Mix between the effected (Wet) and direct (uneffected, Dry) signal.

DryDirect signal only.WetEffected signal only.nn:nnPercentage of Wet/Dry signal.

B to A, D to C

Amount of the B effect going back to the input of the A effect, or of the D effect going back to the input of the C effect.

Mod.Track (Modulating Track)

Source track for modulating MIDI messages. You can modulate an effect parameter with a MIDI message generated by a physical controller or a Song track.

Effects in Song Play mode

Pa1X is equipped with four effect processors, or DSPs (Digital Signal Processors), to process MIDI tracks. In Song Play mode you can have two or four effects at the same time, depending on the midifile you are reading.

Effects A and B are usually reserved to both sequencers, while effects C and D are usually reserved to Keyboard tracks and Pads.

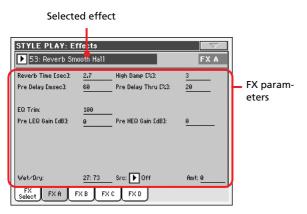
Depending on the status of the "Seq.2 FX Mode" parameter, each effect pair could be reserved to a different Sequencer (see page 150).

You can also create Songs that make use all four effects in Sequencer mode.

- A Song created on the Pa1X (in Sequencer mode) can use up to 4 effects (usually 2 reverbs + 2 modulating effects); each track may use the A/B or C/D pair.
- A Standard MIDI File or Karaoke[™] file will only use 2 effects (usually 1 reverb + 1 modulating effect). This lets you use the remaining 2 effects for the Realtime tracks.
- When using both sequencers at the same time, and the "Seq.2 FX Mode" is set to "AB" mode (see page 150), they only use the A/B pair, while the C/D pair is reserved to the Keyboard tracks.
- When using both sequencers at the same time, and the "Seq.2 FX Mode" is set to "CD" mode (see page 150), Sequencer 1 uses the A/B pair, while Sequencer 2 uses the C/D pair, sharing it with Keyboard tracks.

Effects: FX A...D

These pages contain the editing parameters for the four effect processors. Here is an example of the FX A page, with the Reverb Smooth Hall effect assigned.



Selected effect

▶PERF ▶STS^{SB} ▶GBL^{Sng}

Select one of the available effects from this pop-up menu. This is the same as the "FX A...D" parameters found in the "Effects: FX Select" page (see above).

FX parameters

► PERF ► STS^{SB} ► GBL^{Sng}

Parameters may differ, depending on the selected effect. See "Effects" on page 322 for a list of available parameters for each effect type.

Wet/Dry

▶PERF ▶STS^{SB} ▶GBL^{Sng}

▶PERF ▶STS^{SB} ▶GBL^{Sng}

Mix between the effected (Wet) and direct (uneffected, Dry) signal. This is the same as the "Wet/Dry" parameters found in the "Effects: FX Select" page (see above).

Src (Source)

Modulation source. To select the track generating this message, see the "Mod.Track (Modulating Track)" parameters found in the "Effects: FX Select" page (see above). For a list of modulation source, see the "Effects" chapter.

Track Controls: Mode

These parameters let you set the Internal/External, and the Poly/ Mono status of Song tracks. See "Track Controls: Mode" on page 86.

Parameters

▶PERF ▶STS^{SB} ▶GBL^{Sng}

Note: These parameters can be saved to the Global-Song Play Setup, by selecting the Write Global-Song Play Setup command from the page menu.

Track Controls: Drum Volume

These parameters let you adjust the volume for each percussive instrument family. See "Track Controls: Drum Volume" on page 146.

Parameters

▶PERF ▶STS^{SB}

Note: Song track values edited in this page are not saved, and are only intended for realtime use.

Track Controls: Easy Edit

These parameters let you "fine-tune" edit parameters for Sounds assigned to the tracks. See "Track Controls: Easy Edit" on page 88.

Parameters

▶PERF ▶STS^{SB}

Note: Song track values edited in this page are not saved, and are only intended for realtime use.

Keyboard/Ensemble: Keyboard Control

These parameters let you set parameters for the Keyboard tracks. See "Keyboard/Ensemble: Keyboard Control" on page 89.

Parameters

▶PERF ▶STS^{SB}

Keyboard/Ensemble: Key/Velocity Range

These parameters let you select a note and velocity range for the Keyboard tracks. See "Keyboard/Ensemble: Key/Velocity Range" on page 89.

Parameters

▶PERF ▶STS^{SB}

Keyboard/Ensemble: Ensemble

See "Keyboard/Ensemble: Ensemble" on page 90.

Parameters

▶PERF ▶STS^{SB}

▶PERF ▶STS^{SB}

▶PERF ▶STS^{SB}

Pad/Switch: Pad

See "Pad/Switch: Pad" on page 92.

Parameters

Pad/Switch: Assignable Switch

See "Pad/Switch: Assignable Switch" on page 92.

Parameters

Jukebox Editor

The Jukebox function lets you play a list of Songs (127 max), at the simple touch of a button. You can play a Jukebox file by assigning it to Sequencer 1, after having selected it in the Song Select page, just as if it was an ordinary Song (see "Jukebox panel" on page 140).



In this page, you can create, edit and save a Jukebox file. A Jukebox list can contain Standard MIDI Files, KaraokeTM files, and MP3 files. (*Note: MP3 files are only supported with the EXBP-MP3 option installed*).

If a Jukebox file is already selected into a Sequencer, you will enter this page with that file ready to be edited. Otherwise, you will enter this page with an empty list.

To create a new Jukebox file, press Del All to remove all Songs or the current list. Add new Songs, then press Save and enter a different name before confirming. A new Jukebox file will be saved to disk.

Move Up/Down

Use these button to move the selected item up or down in the list.

Add

Adds a Song at the end of the current list. You can add up to 127 Songs in a list.

Note: A Jukebox list can include only Songs contained in the same folder.

Hint: Instead of a single Song, you can select a Jukebox file, and add its whole content to the current Jukebox list.

Insert

Inserts a Song at the current position (i.e., between the selected item and the preceding one). All subsequent Songs are moved to the next higher-numbered slot. You can add up to 127 Songs in a list.

Note: A Jukebox list can include only Songs contained in the same folder.

Hint: Instead of a single Song, you can select a Jukebox file, and insert its whole content to the current Jukebox list.

Delete

This command lets you delete the selected Song from the list.

Del All

Select this command to delete the whole Jukebox list.

Save

Press this button to save the Jukebox file to disk. The Save Jukebox File dialog box appears, allowing you to edit the name and save your file to disk.

Write JukeBox File	
T MYSHOW	_
Cancel OK	

Press the $\boxed{\mathbf{T}}$ (Text Edit) button to open the Text Edit window, and edit the name.

If you are editing an existing list, and do not change its name, the old file is overwritten. If you change it, a new file will be created on disk.

If you are saving a new list, the "NEWNAME.JBX" name is automatically assigned, and you can edit it.

Note: You can save your ".JBX" file only in the same folder as the Song files included in the list.

Groove Quantize

You can apply a realtime "groove-quantization" to Sequencer 1. Groove-quantization is a way of changing the music groove during the playback, moving notes to the nearest axis of a rhythmic "grid". Please feel free to experiment: this function is a great source of musical inspiration.

To enable groove quantize, you can either use the command in this page, or check the Groove Quantize Enable command in the page menu.

SONG PLAY-SEQ1: Groo	ove Quantize
-Groove Quantize Sett	ings
Enable	
🔽 Note start	Accuracy [%]: 100
Note duration	Swing [%]: 50
Resolution: 🕨 🎜	Window [%]: 100
Groove Quantize	

Note: Groove Quantize parameters are not saved, as they are only intended for realtime use.

Enable

Enables/disables quantization. It is automatically set to Off each time the instrument is turned on, or when selecting a different Song.

Hint: You can enable/disable the Groove Quantize also by selecting the "Seq.1-Groove Quantize Enable" command from the page тепи.

Note Start

Enables/disables quantization of the Note On event (i.e. beginning of the note).

Note Duration

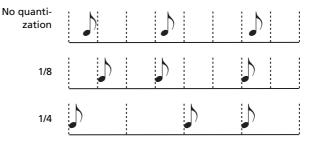
Enables/disables quantization of the Note Off event (i.e. the length of the note).

Resolution

Coarse quantize grid resolution. This parameter is the main quantization value, to be varied with the Acc, Swing and Window values.

(1/32).... (1/4)

Grid resolution, in musical values (a "3" after the value means "triplet"). For example, when you select 1/8, all notes are moved to the nearest 1/8 division. When you select 1/4, all notes are moved to the nearest 1/4 division.



Accuracy

Accuracy percentage of quantize. For example, if Acc=50, and the note is 20 tics away from the coarse grid, it is moved to the grid of only 10 tics.

0	No accuracy.	The quantize	is not ex	ecuted.	
		_,		_	-

100 Maximum accuracy. The note is moved exactly at the grid position.

Swing

0

Asymmetry of quantization. Grid axis are moved to the nearest grid axis.

Even-numbered axis are totally moved over the previous odd-numbered axis.

50 Axis are perfectly equidistant.

Even-numbered axis are totally moved over the 100 following odd-numbered axis.

Swng=50									
Swng=25									
Swng=75									

Window

0

Area of quantize intervention, bordering the grid axis.

The quantize window corresponds to the axis. No quantization happens. 100 The quantize window extends to the nearest window; all events are quantized. Win=0 Win=50 Win=100

Preferences: Track Settings

In this page, you can set various general parameters referred to Song tracks.

SONG PLAY	-SEQ1: Preferences
-Track Se	tting (Global-Song Play Setup)
Melody:	Track 4
Drum:	▶ Track 10
Bass:	Track 2
Harmony Tr	rack: 🕨 Global
Track Gener Setting Contro	

Note: These settings are stored in the Song Play Setup area of the Global file (together with all the other parameters marked with the

▶ GBL^{Sng} abbreviation in the manual). After changing these settings, select the Write Global-Song Play Setup command from the page menu to save them to the Global.

Melody

This parameter selects the Song's Melody track. This track can be muted using the "Melody Mute" function, assignable to an Assignable Switch, Footswitch or EC5 pedal.

Drum

► GBL^{Sng}

▶ GBL^{Sng}

This parameter selects the Song's Drum track. This track is left set to play (together with the Bass track) when selecting the "Drum&Bass" function, assignable to an Assignable Switch, Footswitch or EC5 pedal.

Bass

This parameter selects the Song's Bass track. This track is left set to play (together with the Drum track) when selecting the "Drum&Bass" function, assignable to an Assignable Switch, Footswitch or EC5 pedal.

Harmony Track

► GBL^{Sng}

► GBL^{Sng}

The Voice Processor gets the chord notes (as well as Program Change messages) from the track selected with this parameter.

- Off No track sends notes to the Harmony module of the Voice processor. Chords can still be received from the MIDI IN.
- Seq.1-Track 1...16

Chords are sent from one of Sequencer 1 tracks.

Seq.2-Track 1...16

Chords are sent from one of Sequencer 2 tracks.

Seq.1+2 Track 1...16

Notes are sent by a track with the same name from both Sequencer 1 and Sequencer 2.

Warning: If both sequencers are generating notes at the same time, the harmonizer will receive notes from both sequencers. Be warned that notes are sent to the harmonizer even when the BALANCE slider is totally moved away from a generating sequencer, and may interfere with the Song you are listening to.

Global Chords are sent from the Chord Scanning area of the keyboard.

Preferences: General Control

In this page, you can set various general parameters.

SONG PLAY-SEQ1: Pre	ferences 📃 🔽
General Controls (Gi Midi Setup: 03 Set	lobal-Song Play Setup)
Perf. Recalls FX CD	Lyrics/Balance Link
Seq.2 FX Mode: AB	
Link Mode: 🕨 Off	
Get HD Path	
S1 Default Path: HD:N	
S1 Default Path: HD:N S2 Default Path: HD:N Track General	

Note: These settings are stored in the Song Play Setup area of the Global file (together with all the other parameters marked with the

▶ GBL^{Sng} abbreviation through the manual). After changing these settings, select the Write Global-Song Play Setup command from the page menu to save them to the Global.

Midi Setup

► GBL^{Sng}

► GBL^{Sng}

MIDI channels for the Song Play mode can be automatically configured by selecting a MIDI Setup with this parameter. See "MIDI" on page 273 for more information on using MIDI Setups.

Note: To automatically select a MIDI Setup when entering the Song Play mode, select the Write Global-Song Play Setup command from the page menu.

For detailed information on MIDI Setup settings, see "MIDI Setup" on page 321.

Note: After selecting a MIDI Setup, you can go to the Global mode and apply any change to each channel setting. To store these changes to a MIDI Setup, while still in Global mode select the Write Global-Midi Setup command from the page menu. All MIDI Setups can be freely customized and overwritten.

Hint: To restore the original MIDI Setups, load the original Factory data again (downloadable from <u>www.korgpa.com</u>).

Performance recalls FX CD

This parameter selects the effects mode for the Performance.

Off When selecting a Performance, no effect is selected.

On The Performance selects the C/D effect pair.

Note: When both this parameter and the "Seq.2 FX Mode" parameter are set to select the C/D effect pair, Sequencer 2 shares its effects with Keyboard tracks. Therefore, these effects can be changed either selecting a Song for Sequencer 2, or selecting a Performance.

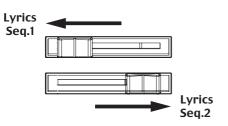
Lyrics/Balance Link

► GBL^{Sng}

► GBL^{Sng}

This parameter allows you to use the BALANCE slider to select the Sequencer whose lyrics will be shown in the built-in display and on the external monitor (provided the optional VIF-3 video interface card is installed).

- Off When moving the BALANCE cross-fader, only the Song will be selected. The shown lyrics remains unchanged.
- On When moving the BALANCE slider fully to the left or the right, the corresponding Song will fade-in, and its lyrics will be selected and shown in the display and external monitor.



Link Mode

The two onboard Sequencers can work each with a different Tempo (Off), or use the same Tempo (Link modes).

Note: You can always start both sequencers simultaneously. Start both sequencers simultaneously by keeping SHIFT held down while pressing one of the ■ (PLAY/STOP) controls.

- Off The sequencers Tempo are not linked. Each sequencer uses its own Tempo.
- Measure The two sequencers Tempo are linked together. The Tempo data written into the Songs are ignored. Adjust the Tempo using the TEMPO/ VALUE controls.

Start one of the sequencers, by pressing its own $\blacksquare \triangleright$ (PLAY/STOP) control. Then, start the other sequencer, by pressing the other $\blacksquare \triangleright$ (PLAY/

STOP) control; the second sequencer starts at the next measure.

Beat The two sequencers Tempo are linked together. The Tempo data written into the Songs are ignored. Adjust the Tempo using the TEMPO/ VALUE controls.

> Start one of the sequencers, by pressing its own ■ ► (PLAY/STOP) control. Then, start the other sequencer, by pressing the other ■ ► (PLAY/ STOP) control; the second sequencer starts at the next beat (quarter or octave, depending on the Song's Time Signature).

Seq.2 FX Mode

► GBL^{Sng}

This parameter selects the effects mode for Sequencer 2. When a 4-effects Song is loaded, all four effects are used, independently from this setting.

- AB The A and B effect pair is used. Sequencer 2 shares its effects with Sequencer 1.
- CD The C and D effect pair is used.

Note: When this parameter is set to CD, Sequencer 2 shares its effects with Keyboard tracks, so these effects can be changed either selecting a Song for Sequencer 2, or selecting a Performance (unless the "Performance recalls FX CD" parameter is left unchecked – see above).

Get HD Path

Press this button to see the current path of each sequencer. This lets you know where currently selected Songs are located in the disks.

If you save these paths to the Global, by selecting the "Write Global-Song Play Setup" command from the page menu, the first time you will open the Song Select window, after turning the instrument on, the selected path will be selected by default.

► GBL^{Sng}

Page menu

Press the page menu icon to open the menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.



Write Performance

Select this command to open the Write Performance dialog box, and save most of the current control panel settings to a Performance.

See "Write Performance dialog box" on page 95 for more information.

Write Global-Song Play Setup

Select this command to open the Write Global-Song Play Setup dialog box, and save global settings that are unique to the Song Play mode.

See "Write Global-Song Play Setup dialog box" on page 151 for more information.

Export Jukebox List

Select this command to save the current Jukebox list as a text file to a disk. Here is how it works.

- 1. While a Jukebox file is assigned to the sequencer, select the Export Jukebox List command from the page menu.
- 2. A dialog box will appear, asking you to select either a floppy disk or the hard disk.

₩rite JukeBox List
 Floppy (please insert a floppy disk and press OK) Hard disk
Cancel OK

3. Select an option.

• If you select the floppy disk, insert a floppy disk in the disk drive, and press OK to confirm.

• If you select the hard disk, just press OK to confirm.

Note: When saved, the text file will be named after the selected Jukebox file. For example, a Jukebox file named "Dummy.jbx" will generate a "Dummy.txt" file. A new, unnamed Jukebox file will generate a "New_name.txt" file. If a file with the same name already exists on the floppy disk, it will be overwritten without waiting for any confirmation.

The list will include the progressive number assigned to each Song, file names in MS-DOS format (8.3), the total number of files in the list.

For the correct display and printing of the list on a personal computer, use a fixed size (i.e., non-proportional) character in your text editor.

Seq.1-Groove Quantize Enable

Enables/disables the groove quantize (see "Groove Quantize" on page 148). It is automatically unchecked each time the instrument is turned on, or when selecting a different Song.

Note: Groove Quantize only works on Sequencer 1.

Solo Track

Select the track to be soloed, and check this item. You will hear only the selected track, and the 'Solo' warning will flash on the page header.

Uncheck this item to exit the Solo function.

The Solo functions works in a slightly different way, depending on the selected track:

• *Keyboard track:* The selected Keyboard track is the only track you can hear when playing on the keyboard. All other Keyboard tracks are muted. Sequencer tracks are left in play status.

• *Song track:* The selected track is the only Song track you can hear. All other Song tracks are muted. Keyboard tracks are left in play status.

Write Global-Song Play Setup dialog box

Open this dialog box by selecting the Write Global-Song Play Setup item from the page menu. Here, you can save various Song Preference settings (see "Preferences: Track Settings" on page 149), that are saved to the Global file.



Parameters saved in the Song Play Setup area of the Global are marked with the **>GBL**^{Sng} symbol through the user's manual.

Playing back MP3 files

Playing back an MP3 is the same as playing a Standard MIDI File, with the following exceptions:

- You can play only one MP3 file at once.
- Tempo cannot be modified.
- Lyrics cannot be displayed.
- You need the EXBP-MP3 option to read MP3 files.

Playing back Audio CD tracks

Playing back an Audio CD Track is the same as playing a Standard MIDI File, with the following exceptions:

- You can play only one Audio CD Track at once.
- Tempo cannot be modified.
- Lyrics cannot be displayed.
- You need the CDRW-1 option to read Audio CD Tracks.
- You can play a whole CD by selecting the All option while in the main page of the Song Play mode (see "All Songs" on page 137).

SongBook

The SongBook is an onboard database that allows you to organize various "musical resources" (Style, Standard MIDI Files, KAR files, and – optionally – MP3 files) for easy retrieving.

The SongBook mode overlaps the Style Play and Song Play operating modes. When you select an entry from the database, the Style Play or Song Play mode is automatically selected, depending on the type of file associated with the entry.

In addition to helping you organize your shows, the SongBook allows you to associate up to four STSs to each Standard MIDI File or MP3, played back in Song Play mode. This way, it is easy to recall a complete setup for Keyboard tracks, effects, and the Voice Processor, for realtime playing over a midifile or MP3.

For more information on using the SongBook, see the Quick Guide (starting from page 54).

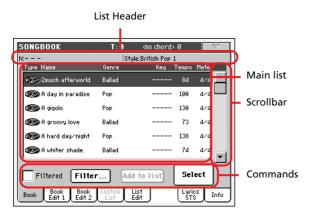
Note: SongBook entries do not include actual data, but only a pointer to a Style in memory, a Standard MIDI File, or an MP3 file. When you copy a SongBook file, referenced files are not copied with it.

Warning: If you load a SongBook list from disk (".SBD" file), the existing one in memory is deleted. Save your old SongBook list before loading a new one.

Book

The Book page contains the full database of song entries. While in this page, you can select an entry, and press the Select button in the display to start playback.

If the "Enable List Edit" command is selected in the page menu (see above), the "Add to list" button becomes available, to let you add entries to the selected Custom List.



Each entry of this database may include the song's author, name, genre, original key, tempo and meter. When selecting one of the entries, the associated Style, MP3 or Standard MIDI File is automatically recalled.

List Header

N:- - -

The List Header may change, depending on the type of data associated with the selected entry.

• When a Style is associated to the entry, the currently selected entry's name is shown on the left ("N:"), and the associated Style is shown on the right ("Style:"):

Style:Funky Ballad

• When a Standard MIDI File or MP3 is associated to the entry, the list header is split into two parts, with the left half referring to Sequencer 1, and the right one referring to Sequencer 2.

Information for the selected entry's name ("N:") and associated Standard MIDI File or MP3 ("S1:" or "S2:") is given for each sequencer:

N:--- S1:CANYON N:--- S2:PINBALL

Note: If you select a different Style, Standard MIDI File or MP3, the entry's name field ("N:") returns blank (---), meaning the entry has been modified.

Main list

Full list of the SongBook database. Use the scrollbar to browse through the list.

Scrollbar

Use the scrollbar to scroll the entries.

Commands

Filtered

When this box is checked, only entries matching the selected filter criteria are shown in the Main list. The box is automatically checked when you exit from the Filter dialog box by pressing OK (see below).

Filter...

Press this button to open the Filter dialog box, and select one or more filter criteria, to show a restricted set of entries in the main list.

Filter		
Name:	<u>T</u>	Clear
Genre:	<u>T</u>	Clear
Artist:	<u>T</u>	Clear
Meter Info	»: 🕨	Clear
Tempo:	From 30 To 250	Clear
Cancel OK Clear All		

Press the \mathbf{T} (Text Edit) button next to the search criteria you want to edit (Name, Genre, or Artist). You can also select a Meter, or a range of Tempo values.

Press the Clear button next to the search criterion you want to delete or set to a default value.

Press Clear All to reset all search criteria, excluding Tempo.

Add to list

Select an entry, then press this button to add the selected entry to the current Custom List (see "Custom List" on page 157).

Select

Press this button to confirm selection of the highlighted entry in the main list. After pressing this button, the name of the selected entry appears in the left upper corner of the display ("N:").

When you select a song in any of the SongBook lists, its name appears in reversed text, over a dark-blue background. While in this situation, the song is selected, but not yet in play.

When you press the Select button in the display, the song starts to play. The blue background turns to green, to show the Song is selected *and* currently in play.

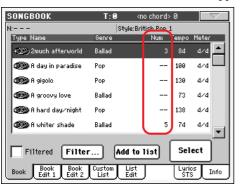
Numeric selection of entries

When in SongBook mode, you can select a SongBook entry by means of an unique number. Numbers associated with each entry are added in the Book Edit 2 page (see "Book Edit 2" on page 156).

To see the numbers while in the Book page, select the "Show Song Numbers (now Key)" command from the page menu:

Show Artist (now Cenre)	Sort by Number
(Show Song Number (now Key)	Sort by Key
Ascending/Descending	Sort by Tempo
Sort by Type	Sort by Meter
 Sort by Name 	✔ Enable List Edit
Sort by Genre	Export as text file
Sort by Artist	

After you select this command, the "Num" column appears:



To see the "Key" column again, select the "Show Key (now Song Numbers)" command from the page menu.

To select a SongBook entry by entering its number, press the SONGBOOK button again while you are in any page of the SongBook mode. The numeric keypad will appear, allowing you to enter the number corresponding to the desired entry.

Selecting SongBook entries via MIDI

SongBook entries can be selected via MIDI (through the special Control channel), by using the NRPN dedicated Control Change messages #99 (MSB, with value 2) and #98 (LSB, with value 64).

Setting the special Control MIDI channel

First of all, go to the Global > MIDI > Setup/General Control page and select a MIDI Setup to be used when you will remotely select SongBook entries.

Then go to the Global > MIDI > Midi In Channel page, to assign a MIDI channel to the special Control channel. Assign the Control option to one of the sixteen available MIDI channels (usually one of the higher-numbered ones).

When done, save this setting to the current MIDI Setup by choosing the "Write Global-Midi Setup" command from the page menu.

If you plan to use a different MIDI channel for the Style Play and Song Play modes, repeat the above to create a second MIDI Setup.

Assigning a MIDI Setup to the Style Play and Song Play modes

Since SongBook entries dynamically recall the Style Play or the Song Play modes, it is advisable to assign them the same MIDI Setup, or two different MIDI Setups with the Control channel assigned to the same MIDI channel. This way, the same MIDI channel will be used to select a SongBook entry in either the Style Play or Song Play mode.

When one of the operating modes is recalled, the MIDI Setup memorized in the Style Play Setup or in the Song Play Setup will be automatically selected, and MIDI channels will be automatically configured.

To assign a MIDI Setup to each of the two operating modes:

• In Style Play mode, go to the Style Play > Preferences > Style Setup page, and select a MIDI Setup. Select the Write Global-Style Setup command from the page menu.

• In Song Play mode, go to the Song Play > Preferences > General Control page, and select the same MIDI Setup assigned to the Style Play mode. Select the Write Global-Song Play Setup command from the page menu.

Selecting SongBook entries via MIDI

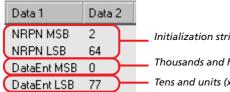
When you are ready to remotely select SongBook entries, switch to the Style Play or Song Play mode.

At this point, Pa1X must receive on the special Control channel the NRPN Control Change messages #99 (MSB, with value 2) and #98 (LSB, with value 64) in fast succession, as an initialization string. This string must be sent only once, unless another NRPN control is sent on the same MIDI channel before selecting a different SongBook entry.

After the initialization string has been sent, you must send the selection string, made of two Control Change messages: CC#06 (Data Entry MSB) for the thousands and hundreds, and CC#38 (Data Entry LSB) for the tens and units. The range of the Data Entry controls, in this case, is 0~99 (instead of the typical 0~127).

The following examples show some typical situations.

Send the following string to select SongBook entry #77:



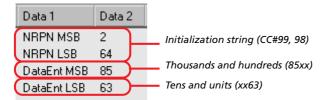
Initialization string (CC#99, 98) Thousands and hundreds (00xx)

Tens and units (xx77)

Send the following string to select SongBook entry #100:

	Data 1	Data 2	
ĺ	NRPN MSB	2	Initialization string (CC#99, 98)
l	NRPN LSB	64	
(DataEnt MSB	1	Thousands and hundreds (01xx)
(DataEnt LSB	0 -	Tens and units (xx00)

Send the following string to select SongBook entry #8563:



Book Edit 1

The Book Edit 1 page is where you to add or modify SongBook entries.

Hint: Use the Filter in the Book page, to quickly find an entry to be edited.

The Book Edit 1 page with a Style-based entry:

SONGBOOK T:0	<no chord=""> 0 🛛 🔍</no>		
Name: 2much afterworld Resource:	🎯 Love 8 Beat 🛛 📃		
Genre: <u>T</u> Ballad	Tempo: <u>94</u>		
Artist: <u>T</u>	Meter Info: 🕨 4/4		
Key Info: ▶	M.Transp. <u>0</u>		
Vrite Current Resource: 🐲 British Pop 1			
Write STS <u>T</u> Steel Guitar	To 🕨 STS1		
New Song Del Song Write			
Book Book Custom List Edit 1 Edit 2 List Edit	Lyrics Info		

The Book Edit 1 page with a Song-based entry:

SONGBOOK T:0	<no chord=""> Ø 🛛 🔽</no>	
Name: 2much afterworld Resource: 0	🍩 CANYON.MID 🛛 📃	
Genre: <u>T</u> Ballad	Tempo: <u>84</u>	
Artist: <u>T</u>	Meter Info: ▶ 4/4	
Key Info: 🕨	M.Transp. <u>0</u>	
Write Current Resource: 🚥	CANYON.MID	
Write STS <u>T</u> Electric Piano	To 🕨 STS1	
New Song Del Song Write		
Book Book Book Custom List Edit 1 Edit 2 List Edit	Lyrics STS Info	

Header

Name

Name of the selected song entry. The name is assigned after you press the Write button to save the entry to the SongBook list.

Resource

Style, Standard MIDI File or MP3 associated with the saved entry.

Warning: If you replace this resource with a different one, carrying the same disk path and name (in case of a Standard MIDI File or MP3) or memory location number (in case of a Style), the Song-Book entry will no longer point to the right data. Be careful not to delete or move a Style or a file associated with a SongBook entry from the original location.

Database Area

Genre

Music genre associated with the entry.

Artist

Name of the artist of the song associated with the entry.

Key Info

Original key of the entry. The first field is the key name, the second one is the mode (major or minor).

Tempo

Basic tempo of the Style, or starting tempo of the Standard MIDI File associated with the entry. This may change, if a Tempo Change event is included with the associated resource.

Note: Even if you can edit this value, the starting value of a Standard MIDI Files is always considered, and overrides this value.

Note: You can edit this value even if an MP3 is associated to the SongBook entry. However, this is just an indicative value, since you cannot change the MIDI Tempo of an MP3 file.

Meter Info

Basic meter of the Style, or starting meter of the Standard MIDI File associated with the entry. This may change, if a Meter Change event is included with the associated resource.

M.Transp. (Master Transpose)

Master Transpose. When the entry is selected, the Master Transpose for the whole instrument is automatically changed (unless the Master Transpose is locked).

Note: The Master Transpose value saved with the SongBook entry overrides any Master Transpose setting contained in the referenced Song.

Resource Area

Write Current Resource

When checked, a reference to the selected resource (the Style, SMF, KAR or MP3 file shown on the right of this parameter) is saved with the entry when pressing Write.

When unchecked, no new resource will be saved with the entry. The original resource associated with the entry will be preserved when pressing Write.

When pressing New Song to create a new, blank entry, this parameter is automatically checked, and cannot be modified. A reference to the associated resource will be saved with the new entry.

Resource Name

Name of the currently selected Style, Standard MIDI File or MP3 file. It may differ from the name of the saved resource, shown on top of the page (see "Resource" above).

You can select a different resource, by just using the STYLE SELECT section, or the two SELECT buttons on the control panel, to select a different Style, Standard MIDI File or MP3 file.

As an alternative, you can exit to the Style Play or Song Play mode, and select resources from there. Then, press the SONG-BOOK button to return to the Book Edit page.

When you press Write, a link to the selected resource(s) is saved with the entry (provided "Write Current Resource" is selected when saving). The resource(s) will be recalled when you selected the entry it is associated to.

Write STS

When checked, current Keyboard track and Voice Processor settings are saved to one of the four STSs available for each entry. You can also exit the SongBook, edit Keyboard tracks, then return to the SongBook and save the new settings to a different STS.

STS Name

Name of the current STS. Press the **T** (Text Edit) button to open the Text Edit window, and modify the name.

To STS Location

One of the four STS available for each entry, where you can save the current settings for Keyboard tracks and the Voice Processor.

Buttons

New Song

Press this button to create a new entry. Settings are copied from the currently selected Style, Standard MIDI File or MP3. The selected resource will be shown in the "Resource Name" field (see above).

Del Song

Press this button to delete the current entry.

Write

Press this button to open the Write Song dialog box, and save the current entry to the main list of the SongBook.

Write Song		
T NEWSONG		
write: NEWSONG		
ОК		

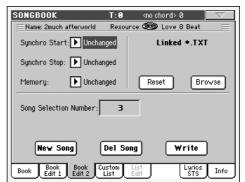
To assign a different name to the entry, press the **T** (Text Edit) button to open the Text Edit window.

Select an option to add the new entry to the SongBook:

- Select Rename/Overwrite to overwrite an existing entry, optionally changing its name. *Warning: The older entry will be deleted!*
- Select New Song to save a new entry to the SongBook database.

Book Edit 2

The Book Edit 2 page is where you select Style options to be memorized, link a ".TXT" file, and assign a unique number to the current entry.



Synchro Start / Synchro Stop / Memory

►SB

The status of these functions can be memorized in a SongBook entry.

Note: If the SongBook entry is based on a Song, Synchro Start and Synchro Stop appear in grey and cannot be modified, since they have no effect on a Song.

- UnchangedWhen selecting this SongBook entry, the status of
the corresponding function is left unchanged.OffWhen selecting this SongBook entry, the status of
the corresponding function is turned off.
- On When selecting this SongBook entry, the status of the corresponding function is turned on.

Linked .TXT

You can select a text (.TXT) file, and link it to the Style or Song associated with the current SongBook entry. When you select this entry, the text file is automatically loaded.

Text files can be seen in the display and in an external monitor (provided the VIF-3 Video Interface has been installed). Since there is no automatic synchronization between this kind of lyrics and the associated songs, you must scroll them manually. This can be accomplished in either of two ways:

- When a ".TXT" file is selected, a special vertical scrollbar appears in the Lyrics/STS page of the SongBook mode. Touch it to scroll through the text during the performance. See "Lyrics/STS" on page 159.
- Scrolling is also possible by means of the Text Page Down/ Up command, that can be assigned to a Footswitch, EC Switch or Assignable Switch.

This section of the Book Edit 2 page contains two buttons:

- Reset Press this buttons to unlink the text file from the entry.
- Browse Press this button to open a standard File Selector, and select a ".TXT" file to be linked to the current SongBook entry.

Song Selection Number

Here you can select a unique number (up to 9,999) to be associated to the current SongBook entry. By typing this number after pressing the SONGBOOK button again, you will be able to quickly recall an entry from the Book page (see "Numeric selection of entries" on page 154).

Assigning a number is not mandatory, but may help you to organize your entries. For example, you can use the different 100s to create a different way of categorizing your entries by genre or age.

Each number can correspond only to a single entry. You cannot assign the same number to two or more different entries. Therefore, if you try to save a modified entry without first selecting a different Song Selection Number, and select the New Song option in the Write Song dialog box, the following error message will appear:

"This entry's Song Selection Number has already been assigned. Please assign a different number".

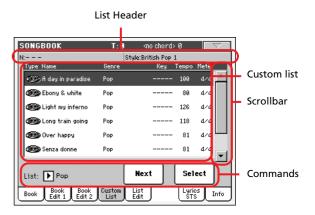
Should this happen, you will automatically be kept in the Book Edit 2 page. While there, assign a different number (while turning the Dial or pressing the UP/DOWN buttons, you are only allowed to select numbers that are still free) and try to save the entry again.

Custom List

►SB

►SB

Use this page to select and use one of the available Custom Lists. Custom Lists are lists made of entries extracted from the main SongBook list (as seen in the Book page). They allow the use of smaller, customized SongBook lists, suitable for a single gig or your own music tastes.



List header

See "List Header" on page 153.

Custom list

List of files contained in the selected Custom List. Use the scrollbar to browse through the list.

Scrollbar

Use the scrollbar to scroll the entries.

Commands

List pop-up menu

Use this pop-up menu to select one of the available lists.

Next

Press this button to select the next entry in the list.

Hint: You can assign this command to an Assignable Switch or Assignable Footswitch.

Select

Press this button to confirm selection of the highlighted entry in the list. After pressing this button, the name of the selected entry appears in the left upper corner of the display ("N:").

Hint: This command is useful to browse through the list, and select an entry different than the following one in the list.

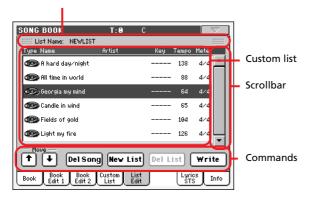
List Edit

This page is only available after checking the "Enable List Edit" command in the page menu (see page 160).

Use this page to edit the available Custom Lists. A Custom List is a set of SongBook entries, created by selecting items from the Main List.

To add entries to a Custom List, first create or select the list to be edited in this page. Then, go to the Book page, select the entry to be added, and press the "Add to list" button. When finished adding entries, return to this page and edit the selected list.

List Name



List Name

Name of the selected list. To select a Custom List, go to the "Custom List" page and use the List pop-up menu.

Custom list

List of songs contained in the selected Custom List. Use the scrollbar to browse through the list.

Scrollbar

Use the scrollbar to scroll the entries.

Commands

Move

Use these buttons to move the selected song entry up or down in the list.

Del Song

Press this button to delete the selected song entry from the list.

New List

Press this button to create a new, empty Custom List.

Del List

Press this button to delete the current list.

Write

Press this button to save changes to the selected Custom List.

Write List
New List Name: TNEWLIST
C Rename/Overwrite: NEWLIST
● New List
Cancel

To assign a different name to the selected list, press the **T** (Text Edit) button to open the Text Edit window.

Select an option to save the edited Custom List:

- Select Rename/Overwrite to overwrite an existing list, optionally changing its name. *Warning: The older list will be deleted!*
- Select New List to save a new Custom List in memory. This list will be available in the "Custom List" page.

Lyrics/STS

 SONGBOOK
 T: Ø
 ono chord> Ø

 Meter:
 4/4
 M: 1
 British Pop 1
 SE0.1

 BED.2
 Style
 Style
 Style

 Steel Guitar
 STS 2
 Distortion Organ
 STS 4

 Book
 Book
 Book
 List
 List
 List

 Book
 Edit 1
 List
 List
 STS Info

The Lyrics/STS page is where you can see Lyrics and select STSs.

When a ".TXT" file is associated to the current song, a vertical scrollbar appears, allowing you to scroll to the previous or former text page during the performance.

Note: You cannot scroll a single line of text at a time; you always scroll by a whole page of text, either if you press on the scrollbar or one of the small scrolling arrows.



Lyrics as text files associated to a Song-Book entry

Lyrics can be associated to each SongBook entry (either Style or Song-based) as a ".TXT" file. See "Linked .TXT" on page 157 for more information on this issue.

As as consequence, there are four ways of seeing Lyrics on the Pa1X:

- In Song Play mode, you can see lyrics contained in a Standard MIDI File as Lyrics events, or in an MP3 with Lyrics file. To see this kind of lyrics you must press the Lyrics tab in the Song Play mode.
- In SongBook mode, you can see lyrics contained in a Standard MIDI File as Lyrics events, or in an MP3 with Lyrics file. To see this kind of lyrics you must press the Lyrics/STS tab in the SongBook mode.
- In SongBook mode, you can see lyrics contained in a ".TXT" file associated with a Style-based SongBook entry. To see this kind of lyrics you must press the Lyrics/STS tab in the SongBook mode.
- In SongBook mode, you can see lyrics contained in a ".TXT" file associated with a Song-based SongBook entry. To see this kind of lyrics you must press the Lyrics/STS tab in the SongBook mode.

In the case of Song-based entries, this is the priority of lyrics data shown in the display:

- i) TXT file associated with the entry, overriding...
- ii) TXT file contained in the same folder as the Standard MIDI File or MP3 file, recalled by the entry, *overriding*...
- iii) Lyrics events contained in the Standard MIDI File or MP3 file.

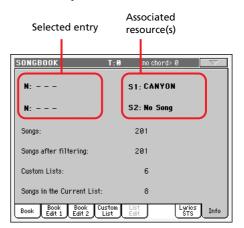
Info

Use the Info page to see the name of the selected entry, the associated resource(s), the total number of Songs in the SongBook, the number of filtered entries, the number of available Custom Lists, and the number of Songs in the current list.

In case of an entry based on a Style:

		SONGBOOK T	: 🛿 🛛 «no chord:	0 🗸
Selected entry		• N:		
Associated resource	-	• Style: British Pop 1		
resource		Songs:	201	
		Songs after filtering:	201	
		Custom Lists:	6	
		Songs in the Current List:	8	
		Book Book Book Custo Edit 1 Edit 2 List	m List Edit	Lyrics STS Info

In case of an entry based on Standard MIDI Files or MP3s:



Selected entry

This parameter shows the currently selected entry. If it is blank (---), the latest selected entry has been modified, or no entry has been selected yet.

Associated resource

Style, Standard MIDI File or MP3 associated to the selected entry.

Song number

Total number of entries in the SongBook list.

Filtered Song number

This parameter shows the number of entries shown in the Book page, after applying the selected filter. If no filter is selected, this matches the total number of entries in the SongBook list (see previous parameter).

Custom List number

This parameter shows the number of available Custom Lists.

Songs in the Current List

Number of entries in the selected Custom List.

Page menu

Press the page menu icon to open the menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.

Show Artist (now Genre)	Sort by Number
Show Song Number (now Key)	Sort by Key
Ascending/Descending	Sort by Tempo
Sort by Type	Sort by Meter
 Sort by Name 	✔ Enable List Edit
Sort by Genre	Export as text file
Sort by Artist	

Artist/Genre

Select this command to toggle between the Artist and Genre column on the SongBook list, appearing in the Book and Custom List page.

Ascending/Descending

Select this command to toggle between the ascending and descending view order of the SongBook list. The sorting order is selected with one of the following commands.

Sort by Type/Name/Genre/Artist/Key/Tempo/Meter

Select one of these command to select the sorting order. The selected option is shown in red above the entry list.

Enable List Edit

Select this command, and make the checkmark appear, to make the List Edit page available.

Export as text file

Select this command to open the Export dialog box, and save the SongBook or Custom List as a text file. The selected filtering will be applied to the exported list, assuming the Filter button is checked.

The dialog box is a little different, depending on the page where you selected this command.

• Selected from the Book page:

Export as text file		
Exporting current SongBook view		
floppy (please insert a floppy disk and press OK)		
🔿 hard disk		
File name: <u>T</u> <u>NEWNAME</u>		
Cancel OK		

Selected from the Custom List page:

Export	as text file		
Exporting current List			
floppy (please insert a floppy disk and press OK)			
🔿 hard disk			
File name:	T NEWNAME		
Cancel	ОК		

Press the **T** (Text Edit) button to open the Text Edit window and assign a name to the text file to be saved to disk.

Then, select either the floppy disk or the hard disk to save the file.

- If you select the floppy disk, insert a floppy disk in the disk drive, and press OK to confirm.
- If you select the hard disk, just press OK to confirm.

Sequencer operating mode

The Sequencer operating mode is the full-featured onboard sequencer, where you can create a Song from scratch, or edit it. You can also use this mode to edit the initial parameters of a Standard MIDI File, either made with an external sequencer or with Pa1X's own sequencer.

You can save the new or edited Song as a Standard MIDI File (SMF, i.e., a file with the ".MID" extension), and play it back either in Song Play or Sequencer mode – or on any external sequencer.

Transport controls

To play back a Song, use SEQUENCER 1 transport controls. While in Sequencer mode, Sequencer 1 is used for all functions. See "SEQUENCER 1 TRANSPORT CONTROLS" on page 10 for more information.

Note: When pressing the ■► (PLAY/STOP) button to stop the Song during playback, Song parameters are not reset.

The Songs and the Standard MIDI File format

The native Song format for Pa1X is the Standard MIDI File.

When saving a Song as a SMF, an empty measure in automatically inserted to the beginning of the Song. This measure contains various Song initialization parameters.

When an SMF is loaded, the empty measure is automatically removed.

Songs and Voice Processor Presets

You can use the Voice Processor while in Sequencer mode. For this, just two settings are needed:

- Select the Song track where you are recording chords to be sent to the Voice Processor (see "Harmony Track" on page 181).
- Go to the Voice Processor Preset section of the Global mode, and select the desired Voice Processor Preset.

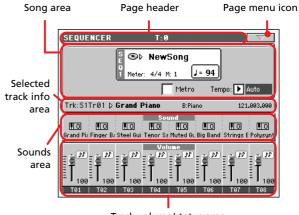
Sequencer Play - Main page

Press SEQUENCER to access this page from another operating mode. In this page you can load a Song, and play it back using the transport controls for SEQUENCER 1 (see "Transport controls" above).

Note: When switching from Style Play to Sequencer mode, the Sequencer Setup is automatically selected, and various track parameters may change.

To return to this page from one of the Sequencer edit pages, press the EXIT or SEQUENCER button.

To switch between Song tracks 1-8 and 9-16, use the TRK. SEL. button.



Track volume/status area

Page header

ß

This line shows the current operating mode, transposition and recognized chord.

SEQUENCER	T:0
T	T
Operating mode name	Master Transpose (in semitones)

Operating mode name

Name of the current operating mode.

Master transpose

Master transpose value in semitones. This value can be changed using the TRANSPOSE buttons on the control panel.

Note: Transpose may be automatically changed when loading a Standard MIDI File generated with an instrument of the Korg Pa series.

To avoid transposing, "lock" the Master Transpose parameter in the Global (see "General Controls: Lock" on page 227), then write the Global to memory (see "Write Global - Midi Setup dialog box" on page 251).

Page menu icon

Press the page menu icon to open the menu. See "Page menu" on page 182 for more information.

Song area

This is where Song name is shown, together with its tempo and meter parameters, and the current measure.



Song type icon

In Sequencer mode, only Standard MIDI Files (files with the ".MID" or ".KAR" extension) can be loaded.

Song name

Displays the name of the selected Song. "No Song" means that a new (blank) Song is selected, and you can record it.

Touch the Song name to make the Song Select window appear, allowing for selection of a different Song (see "Song Select window" on page 74).

To select a Song, you can also press the SELECT button in the SEQUENCER 1 section of the control panel. Press SELECT a second time to select a Song by dialing in its ID number (see "Selecting a Song by its ID number" on page 75).



Meter

Current Song meter.

Measure number

Current measure number.

Tempo

Metronome tempo. Select this parameter and use the TEMPO/ VALUE controls to change the tempo. As an alternative, when a different parameter is selected, or you are in a different page, keep the SHIFT button pressed and use the DIAL to change the tempo of the sequencer.

Metro

Check this box to turn the metronome on during playback.

Tempo (Tempo mode)

Use this menu to select the Tempo change mode.

- Manual In this mode, you can change the Tempo using TEMPO/VALUE section controls. The Song will be played back using the manually selected tempo.
- Auto The Tempo recorded to the Song will be used.

Selected track info area

This line lets you see the Sound assigned to the selected track. Not only it is shown on the main page, but also in several edit pages.



Track name

Name of the selected track.

Sound name

Sound assigned to the selected track. Press anywhere in this area to open the Sound Select window, and select a different Sound.

Sound bank

Bank the selected Sound belongs to.

Program Change

Program Change number. Shown only when the "Show Program Change number" parameter is turned on in Global mode (see page 228).

Sounds area

This area lets you see Sounds and octave transposition for the eight tracks currently displayed.



Song track octave transpose

Non editable. Octave transpose of the corresponding track. To edit the octave transpose, go to the "Mixer/Tuning: Tuning" edit page (see page 175).

Sound name

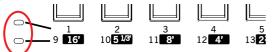
Name of the Sound assigned to the track. Touch a name a first time to select the corresponding track (detailed information are shown on the Selected Track Info area, see above). Touch it a second time to open the Sound Select window.

Track volume/status area

This area is where you can set the volume of each Song track, and mute/unmute tracks.

Use the TRK. SEL. (TRACK SELECT) button to switch between Song Tracks 1-8 and Song Tracks 9-16 views.

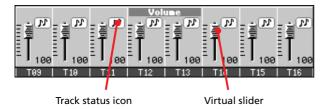
If the VOLUME LED above the SLIDER MODE button is turned on, the Assignable Sliders LEDs show which view is currently selected.



The Song Tracks 1-8 view shows individual Song tracks 1-8 (third sliders LED turned on):



The Song Tracks 9-16 view shows individual Song tracks 9-16 (last sliders LED turned on):



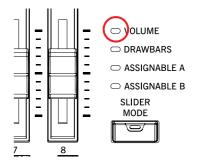
Virtual sliders (track volume)

Virtual sliders are a graphical display of each track's volume. Use the Assignable Sliders to change this value (provided the VOL-UME LED is turned on above the SLIDER MODE button, see below).

As an alternative, press the track's area to select a track, and use TEMPO/VALUE controls to change the value.

Assignable Sliders function

Use the SLIDER MODE button to select the function assigned to the Assignable Sliders. When the VOLUME LED is turned on, each Assignable Slider controls the volume of the corresponding track.



Note: While in Sequencer mode, you cannot save the SLIDER MODE status to a Performance, since Performances are disabled while in this mode.

Track status icons

► SONG ► GBL^{Seq}

Play/mute status of the current track. Select the track, then press this area to change the track status. The status of Song tracks is saved when saving the Song.



Play status. The track can be heard.



Mute status. The track cannot be heard.



Track names

Under the sliders, a label for each track is shown. Use the TRK. SEL button to switch between tracks 1-8 and 9-16.

T01...T16 Song tracks.

Entering Record mode

To enter Record mode, press the REC button while you are in Sequencer mode. The following dialog box will appear:



Select one of the three available recording options and press OK (or Cancel if you don't want to enter Record mode).

Multitrack Sequencer

Full-featured sequencer. Select this option for classic multitrack recording. (See "Record mode: Multitrack Sequencer page" on page 164).

Backing Sequence (Quick Record)

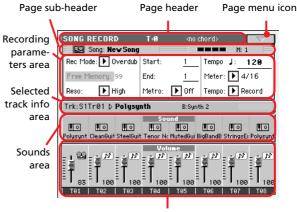
Easy way of recording. Just play with Styles, and record your realtime performance.

Step Backing Sequence

Step-record. Enter chords and notes one at a time. Very useful if you are not a keyboard player.

Record mode: Multitrack Sequencer page

While in Sequencer mode, press the REC button and select the "Multitrack Sequencer" option. The Multitrack Sequencer page appears.



Tracks volume/status area

See "Multitrack recording procedure" on page 166 for information on the record procedure.

Page header

See "Page header" on page 161.

Page menu icon

See "Page menu icon" on page 162.

Page sub-header

This area shows some performing info on the Song.



Song name

Name of the Song in record.

Beat counter

This indicator shows the current beat inside the current measure.

Measure number

Current measure you are recording.

Recording parameters area

Rec mode (Recording mode)

Set this parameter before starting record, to select a recording mode.

Overdub The newly recorded events will be mixed to any existing events.

Overwrite	The newly recorded events will replace any exist- ing events.
Auto Punch	Recording will automatically begin at the "Start" position, and stop at the "End" position.
	Note: The Auto Punch function will not work on an empty Song. At least one track must already be recorded.
PedalPunch	Recording will begin when pressing a pedal set to the "Punch In/Out" function, and will finish when pressing the same pedal again.
	Notes The Dodal Dunch function will not work on

Note: The Pedal Punch function will not work on an empty Song. At least one track must already be recorded.

Free memory

Remaining memory available for recording.

Resolution

Use this parameter to set the quantization during recording. Quantization is a way of correcting timing errors; notes played too soon or too later are moved to the nearest axis of a rhythmic "grid", set with this parameter, thus playing perfectly in time.

High No quantization applied.

(1/32)...)(1/8)

Grid resolution, in musical values. For example, when you select 1/16, all notes are moved to the nearest 1/16 division. When you select 1/8, all notes are moved to the nearest 1/8 division.

No quantization

Start/End

Start and End locators. These parameters area available only when the "Auto Punch" recording mode is selected. They set the starting and ending points of the Punch recording.

Metro (Metronome)

This is the metronome heard during recording.

- Off No metronome click will be heard during recording. A one-bar precount will be played before starting recording.
- On1 Metronome on, with a one-bar precount before starting recording.
- On2 Metronome on, with a two-bar precount before starting recording.

Tempo

Select this parameter, and use the TEMPO/VALUE controls to set the tempo.

Note: You can always change the Tempo, when other parameters are selected, by keeping the SHIFT button pressed, and rotating the DIAL.

Note: The tempo is always recorded in overwrite mode (old data is replaced by the new data).

Meter

This is the basic meter (or time signature) of the Song. You can edit this parameter only when the Song is empty, i.e., before you begin recording anything. To insert a meter change in the middle of the Song, use the "Insert Measure" function (see page 180).

Tempo (Tempo mode)

This parameter sets the way tempo events are read or recorded.

- Manual Manual reading. The latest manual Tempo setting (made using the TEMPO/VALUE controls) is considered the current Tempo value. No Tempo change events will be recorded. This is very useful to record the Song much slower than its actual Tempo.
 Auto Auto reading. The Sequencer plays back all recorded Tempo events. No Tempo change events are recorded.
- Record All Tempo changes made during recording will be recorded to the Master Track.

Selected track info area

This line lets you see the Sound assigned to the selected track. See "Selected track info area" on page 162 for more information.

Sounds area

This area lets you see Sounds and octave transposition for the eight tracks currently displayed. See "Sounds area" on page 162 for more information.

Track volume/status area

This area is where you can set the volume of each Song track, and change track status. See "Track volume/status area" on page 162.

Track status icons

Play/mute/record status of the current track. Select the track, then press this area to change its status.

- Play status. The track can be heard.
- Mute status. The track cannot be heard.
- Record status. After pressing > (PLAY/STOP) to start recording, the track will receive notes from the keyboard and the MIDI IN connector.

Multitrack recording procedure

Here is the general procedure to follow for the Multitrack Recording.

- 1. Press SEQUENCER to enter Sequence mode.
- Press the REC button, and select the "Multitrack Sequencer" option to enter the Multitrack Record mode. Now you can prepare your recording parameters. (For more details, see "Record mode: Multitrack Sequencer page" on page 164).
- **3.** Be sure the Overdub or Overwrite recording options is selected (see "Rec mode (Recording mode)" on page 164).
- 4. Set the tempo. There are two ways of changing tempo:

• Keep the SHIFT button pressed, and use the TEMPO/ VALUE controls to change the tempo.

• Move the cursor to the "Tempo" parameter, and use the TEMPO/VALUE controls to change tempo.

- 5. Use the TRK. SEL. button to switch between Song Tracks 1-8 and Song Tracks 9-16, and assign the right Sound to each track (see "Sound name" on page 162).
- 6. Select the track to record. Its status icon will automatically change to Record (see "Track status icons" on page 165).
- 7. Press ■► (PLAY/STOP) to start recording. Depending on the Metro option you selected, a 1- or 2-bars precount may play before the recording actually begins. When it begins, play freely.

• If you selected the Auto Punch recording mode, the recording will begin only when reaching the Start point.

• If you selected the Pedal Punch recording mode, press the pedal when you want to begin recording. Press it again to finish recording.

Note: The Punch functions will not work on an empty Song. At least one track must already be recorded.

- 8. When finished recording, press ■► (PLAY/STOP) to stop the sequencer. Select a different track, and go on recording the whole Song.
- **9.** When finished recording the new Song, either press the REC button, or select the "Exit from Record" command from the page menu (see page 182).

Warning: Save the Song to disk, to avoid it is lost when turning the instrument off.

Note: When exiting the Record mode, the Octave Transpose is automatically reset to "0".

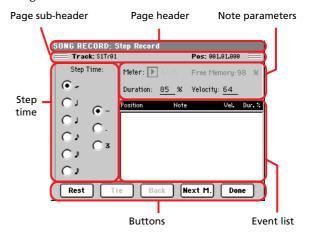
10. If you wish, edit the new Song, by pressing the MENU button, and selecting the various edit pages.

Record mode: Step Record page

The Step Record allows you to create a new Song by entering single notes or chords to each track. This is very useful when transcribing an existing score, or needing a higher grade of detail, and is particularly suitable to create drum and percussion tracks.

To access this page, select the "Overdub Step Recording" or "Overwrite Step Recording" command from the page menu.

In Overdub Step Recording mode you will add to existing events, while in Overwrite Step Recording mode you will overwrite all existing events.



See "Step Record procedure" below, for information on the record procedure.

Page header

This line shows the current operating mode.

Page sub-header

Track

Name of the selected track in record.

S1Tr01...Tr16

Sequencer 1 track. In Sequencer mode, you always work with Sequencer 1.

Pos (Position)

This is the position of the event (note, rest or chord) to be inserted.

Step Time area

Step Time

Length of the event to be inserted.

,	ß			Note value.
	-	_		

- Standard (-)
 Standard value of the selected note.

 Dot (.)
 Augments the selected note length by one half of its value.
- Triplet (3) Triplet value of the selected note.

Note parameter area

Meter

Meter of the current measure. This parameter cannot be edited. You can set a Meter change by using the Insert function of the Edit menu, and inserting a new series of measures with a different Meter (see "Song Edit: Cut/Insert Measures" on page 180).

Free Memory

Available memory for recording.

Duration

Relative duration of the inserted note. The percentage is always referred to the step value.

50%	Staccato.
85%	Ordinary articulation.
100%	Legato.

Velocity

Set this parameter before entering a note or chord. This will be the playing strength (i.e., velocity value) of the event to be inserted.

- Kbd Keyboard. You can select this parameter, by turning all counter-clockwise the dial. When this option is selected, the playing strength of the played note is recognized and recorded.
- 1...127 Velocity value. The event will be inserted with this velocity value, and the actual playing strength of the note played on the keyboard will be ignored.

Event list area

List of inserted events

Previously inserted events. You may delete the last of these events, and make it ready for a new event, by pressing the Back button in the display.

Position Position where the event has been inserted. The value is shown in the "measure.beat.tick" format.

Note/RX Noise

Name of the inserted Note or RX Noise. When entering a chord, a series of dots is shown after the name of the root note.

Vel. Velocity of the inserted event.

Dur.% Percentage duration of the inserted event.

Buttons

Rest

Press this button to insert a rest.

Tie

Press this button to tie the note to be inserted to the previous one. A note with the same pitch, and the specified length, will be created, and tied to the previous one.

Back

Goes to the previous step, erasing the inserted event.

Next M. (Next Measure)

Goes to the next measure, and fills the remaining space with rests.

Done

Exits the Step Record mode.

Step Record procedure

Here is the general procedure to follow for the Step Recording.

- 1. Press SEQUENCER to enter Sequencer mode.
- 2. Press the REC button, and select the "Multitrack Sequencer" option to enter the Multitrack Record mode. From the page menu, select the "Overdub Step Recording" or "Overwrite Step Recording" mode. At this point, the Step Record window will appear in the display.
- **3.** The next event will be entered at the position shown by the Pos indicator in the upper right corner of the display.

• If you don't want to insert a note at this position, insert a rest instead, as shown in step 5.

- To jump to the next measure, filling the remaining beats with rests, press the Next M. button in the display.
- 4. To change the step value, use the Step Time parameters.
- 5. Insert a note, rest or chord at the current position.

• To insert a single note, just play it on the keyboard. The inserted note length will match the step length. You may change the velocity and relative duration of the note, by editing the Velocity and Duration parameters. See "Veloc-ity" and "Duration" on page 167.

• To insert a rest, just press the Rest button in the display. Its length will match the step value.

• To tie the note to be inserted to the previous one, press the Tie button in the display. A note will be inserted, tied to the previous one, with exactly the same pitch. You don't need to play it on the keyboard again.

• To insert a chord or a second voice, see "Chords and second voices in Step Record mode" on page 107 of the "Style Record mode" chapter.

- 6. After inserting a new event, you may go back by pressing the Back button in the display. This will delete the previously inserted event, and set the step in edit again.
- 7. When finished recording, press the Done button in the display. The main page of the Multitrack Recording mode will appear again.
- 8. From the main page of the Multitrack Recording mode, either select the "Exit from Record" command from the page menu, or press the REC button to exit the Record mode. While in the main page of the Sequencer mode, you may press the ■▶ (PLAY/STOP) button in the SEQUENCER 1 section to listen to the Song, or select the Save Song command from the page menu to save the Song to disk (see "Save Song window" on page 183).

Chords and second voices

With Pa1X, you are not obliged to insert single notes in a track. There are several ways to insert chords and double voices. For more information, see "Chords and second voices in Step Record mode" on page 107 of the "Style Record mode" chapter.

Record mode: Backing Sequence (Quick Record) page

Backing Sequence (Quick Record) mode allows you to quickly record your live performance with the Styles. To make things easier, just two grouped tracks are provided: *Kbd/Pad* (Keyboard and Pads) to record keyboard and pads, and *Ch/Acc* (Chords/ Accompaniment) to record Style commands and chords played on the keyboard.

While in Sequencer mode, press the REC button and select the "Backing Sequence (Quick Record)" option. The Backing Sequence (Quick Record) page appears.

Page sub-header		Page header	r Page menu ico	r
١.				
Recording	B.SEQ RECORD		chord>	
parame- ters area	Style:British Pop 1	Kbd/Pad Rec	Tempo J = <u>94</u>	
	Free Memory: 99	Ch/Acc: 🕨 Rec	Meter: 4/4	
Selected	Resolution: ▶ High	Metro: 🕨 Off	▶Perf: Stereo Grand	
track info	Trk:Upper 1 D Grand	Piano B:Piar	no 121.003.000	
area	Chord/Acc. Track		Kbd/Pad Track	
	Rec		Rec	
B.S. grouped			IM ġM ∰⊅ ₽ T	
tracks area		= ₁₁₀ = T ₅₅ MIC/IN LOWER	- 70 - 100 - 127 UPPER3 UPPER2 UPPER1	
-				

Track volume/status area

See "Backing Sequence (Quick Record) recording procedure" on page 170 for information on the record procedure.

Page header

See "Page header" on page 161.

Page menu icon

See "Page menu icon" on page 162.

Page sub-header

See "Page sub-header" on page 164.

Recording parameters area

Style

This parameter shows the selected Style. Either press it, or press one of the STYLE buttons, to open the Style Select window and select a different Style (see "Style Select window" on page 73).

Free memory

Remaining memory for recording.

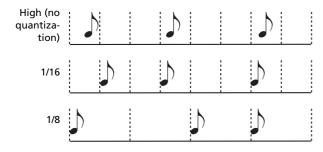
Resolution

Use this parameter to set the quantization during recording. Quantization is a way of correcting timing errors; notes played too soon or too later are moved to the nearest axis of a rhythmic "grid", set with this parameter, thus playing perfectly in time.

High No quantization applied.

(1/32)....) (1/8)

Grid resolution, in musical values. For example, when you select 1/8, all notes are moved to the nearest 1/8 division. When you select 1/4, all notes are moved to the nearest 1/4 division.



Kbd/Pad, Ch/Acc

These parameters let you define grouped track status during recording. This status is reflected by the big status indicator above the track sliders.

RT/Pads: This Backing Sequence track includes the four Keyboard tracks and the four Pads. After finishing recording, they will be saved as Song tracks 1-8, as in the following table:

RT/Pad track	Song track/Channel
Upper 1	1
Upper 2	2
Upper 3	3
Lower	4
Pad 1	5
Pad 2	6
Pad 3	7
Pad 4	8

Ch/Acc: This Backing Sequence track groups all Style tracks, together with recognized chords and Style controls and Style Elements selection. After finishing recording, they will be saved as Song tracks 9-16.

- Play The Backing Sequence track is set to play. If there are recorded data, they will be heard while recording the other Backing Sequence track.
- Mute The Backing Sequence track is muted. If this tracks has already been recorded, it will not be heard during recording of the other Backing Sequence track.
- Rec The Backing Sequence track is in record. All previously recorded data will be deleted. After pressing ■ > (PLAY/STOP) to start recording, the track will receive notes from the keyboard and the MIDI IN connector.

Metro (Metronome)

This parameter sets the metronome mode during recording.

- Off No metronome click will be heard during recording. A one-bar precount will be played before starting recording.
- On1 Metronome on, with a one-bar precount before starting recording.

On2	Metronome on, with a two-bar precount before
	starting recording.

Tempo

Metronome tempo. Select this parameter and use the TEMPO/ VALUE controls to change the tempo. As an alternative, when a different parameter is selected, or you are in a different page, keep the SHIFT button pressed and use the DIAL to change the tempo of the sequencer.

Meter

(Non-editable). This parameter shows the meter of the selected Style for reference.

PERF or STS (Performance or STS)

This parameter shows the selected Performance or STS (depending on the last item selected).

To select a Performance, either press it, or press one of the PER-FORMANCE/SOUND buttons (provided the PERFORMANCE SELECT LED is turned on), to open the Style Select window and select a different Performance (see "Style Select window" on page 73).

To select an STS, use the four SINGLE TOUCH SETTING buttons under the display.

Backing Sequence grouped tracks area

Grouped tracks status indicators

These giant indicators show the status of the Backing Sequence grouped tracks. They reflect the status of the Kbd/Pad and Ch/Acc parameters (see "Kbd/Pad, Ch/Acc" above).

Selected track info area

This line lets you see the Sound assigned to the selected track. See "Selected track info area" on page 162 for more information.

Track volume/status area

This area is where you can set the volume of each single Keyboard track, and mute/unmute tracks.

Virtual sliders (track volume)

Graphical display of each track's volume. See "Virtual sliders (track volume)" on page 163 for more information.

Assignable Sliders function

See "Assignable Sliders function" on page 163 for more information.

Individual track status icons

 (\mathbf{M})

While you can change the status of all Keyboard tracks at once, by using the Kbd/Pad Backing Sequence track, you can also change the status of each single track. Press this icon to change the status of the corresponding individual track.

Play status. The track can b	be heard.
------------------------------	-----------

Mute status. The track cannot be heard.

Track names

Under the sliders, a label for each track is shown. Use the TRK. SEL button to switch between the various track views.

MIC/IN	Audio inputs.
UPPER13	Upper tracks.
LOWER	Lower track.

Backing Sequence (Quick Record) recording procedure

Here is the general procedure to follow for the Backing Sequence (Quick) Recording.

- 1. Press SEQUENCER to enter the Song mode.
- 2. Press the REC button, and select the "Backing Sequence (Quick Record)" option to enter the Backing Sequence (Quick Record) mode. Now you can prepare your recording parameters. (For more details, see "Record mode: Backing Sequence (Quick Record) page" on page 168).
- **3.** The last selected Style is currently selected. Should it not be the right one, select a different Style to start recording with. (See "Style Select window" on page 73).
- 4. The last selected Performance or STS is currently selected. If you prefer, select a different Performance or STS. (See "Performance Select window" on page 72, and "STS Select" on page 73).
- 5. Select the status of the Backing Sequence grouped tracks, using the Kbd/Pad and Ch/Acc parameters. (Kbd/Pad stays for Keyboard and Pads; Ch/Acc stays for Chord and Accompaniment, i.e. the Style tracks). To record all you play on the keyboard, plus the automatic accompaniment, leave their status to REC (see "Track status icons" on page 165).

Warning: Tracks set to REC are automatically overwritten when starting recording. Set a track to the PLAY or MUTE status, when you don't want to delete it. For example, if you are recording a keyboard part on an existing Style track, set the Ch/Acc parameter to PLAY, and the Kbd/Pad track to REC.

6. Start recording by pressing the left ■ ► (PLAY/STOP) button or the START/STOP button.

• By pressing the left ■ ► (PLAY/STOP) button (or the START/STOP button), you can record a keyboard intro with no Style playing. After a count-in (see "Metro (Metronome)" on page 169), you can start recording.

Play a solo intro, then start the auto-accompaniment by pressing the START/STOP button.

• By pressing the START/STOP button you can start the Style right at the beginning of the Song.

Since you can use any Style control, you could start with the usual combinations (INTRO, ENDING, FILL... see "Selecting and playing a Style" on page 38 for more information).

Note: While in Backing Sequence mode, you can't record the SYNCHRO, TAP TEMPO/RESET, MANUAL BASS, ACCOMPANIMENT VOLUME controls.

- 7. Play your music. You can even stop the Style by pressing START/STOP. If you stop the Style while recording, start it again with the START/STOP button.
- 8. When finished recording your performance, press the ■► (PLAY/STOP) button in the SEQUENCER 1 section. The REC LED will turn off, and you will go back to the Sequencer Play Main page (see "Sequencer Play Main page" on page 161).

At this point, you may press the ■► (PLAY/STOP) button in the SEQUENCER 1 section to listen to the new Song.

You may also edit the Song by pressing the MENU button (see "Edit menu" on page 173).

9. Save the song to disk (see "Save Song window" on page 183).

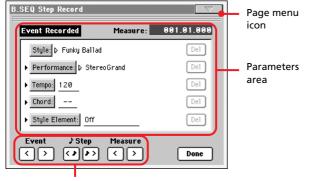
Warning: The recorded Song is in RAM (Random Access Memory), and will be deleted when turning the instrument off, switching to the Style Play or Song Play mode, or entering Record again. If you wish to preserve it, save the Song to disk.

Record mode: Step Backing Sequence page

The Step Backing Sequence mode allows you to enter single chords, to create or edit the Style (Chord/Acc) part of a Song. This mode lets you enter chords even if you are not a keyboard player, or fix any error made playing chords or selecting Style controls, during a Backing Sequence (Quick Record) recording.

In this mode, you can only edit Songs created on the Pa1X. When saving a Song created using the Backing Sequence (Quick Record) recording mode, all Chord/Acc data is preserved, and can be loaded later, to be edited again by using the Step Backing Sequence mode.

While in Sequencer mode, press the REC button and select the "Step Backing Sequence" option. The Step Backing Sequence window appears.



"Soft" transport buttons

See "Step Backing Sequence procedure" on page 173 for information on the record procedure.

Page menu icon

Press the page menu icon to open the menu. See "Step Backing Sequence page menu" on page 172 for more information.

Parameters area

Side arrow (+)

The small arrow next to a parameter means that its value is effective at the current position. For example, if you are at the "003.01.000" position, and an arrow lights up next to the Chord parameter, this means that a chord change happens at the "003.01.000" position.

Measure

This parameter shows the current position of the Step Editor. To go to a different position within the Song, use one of the following systems:

- Select this parameter, then use the TEMPO/VALUE controls to go to a different measure.
- Use the Measure buttons in the display to move to a different measure. Use the Step buttons in the display to move in steps of 1/8 (192 ticks). Use the Event buttons in the display to jump to the next event.

The locator value is shown in the "measure.beat.tick" format.

Measure	Measure or bar number.
Beat	Divider in the Time Signature ratio (e.g., a quarter in a $3/4$ time).
Tick	Smallest position value. Both Pa1X internal sequencers feature a resolution of 384 ticks per quarter.

Style

This is the last selected Style. To insert a Style change at the current position, touch the Style name to open the Style Select window, or follow the standard selecting procedure using the buttons of the STYLE SELECT section.

Note: Any Style Change inserted after the beginning of the measure (i.e., to a position other than Mxxx.01.000) will be effective at the following measure. For example, if a Style Change event has been inserted at M004.03.000, the selected Style will be effectively selected at M005.01.000. (This works exactly as in Style Play mode).

Note: When inserting a Style Change, you may also insert a Tempo Change at the same position. A Style Change will not automatically insert the Style's Tempo.

Performance

This is the last selected Performance. Select a Performance to recall the Style it links to. To insert a Performance change at the current position, touch the Performance name to open the Performance Select window, or follow the standard selecting procedure using the PERFORMANCE/SOUND SELECT section.

Note: The STYLE CHANGE LED is automatically turned on when entering the Chord/Acc Step Mode. This means that selecting a Performance automatically selects the Style memorized in the Performance.

The SINGLE TOUCH and STS buttons are automatically disabled, meaning that you can't change Keyboard tracks while in Chord/Acc Step Mode.

Tempo

This is the Tempo Change parameter. To insert a Tempo Change event at the current position, select this parameter and use the TEMPO/VALUE controls to change its value.

Chord

The chord parameter is divided in four separate parts:



Select one of the parts, then use the TEMPO/VALUE controls to modify it. As an alternative, you can play a chord, and it will be automatically recognized. While recognizing a chord, the status of the BASS INVERSION button will be considered.

The lack of a chord (--) means that the accompaniment will not play at the current position (apart for the Drum and Percussion tracks). To select the "--" option, select the Name part of the Chord parameter, then use TEMPO/VALUE controls to select the very last value (C...B, Off).

Note: If you replace a chord with a different one, please remember that the Lower track (if recorded) will not be automatically changed, and may cause a dissonance against the accompaniment.

Style Element

This is the Style Element (i.e., a Variation, Fill, Intro, or Ending). The length of the selected Style Element is always shown by the "Length" parameter (see below).

"Off" means that the accompaniment will not play at the selected position - only Keyboard and Pad tracks will play.

Hint: Insert a Style Element Off event exactly where the automatic accompaniment must stop (at the end of the Song).

Length

This parameter will let you know where to place the following Style Element Change. For example, if you inserted an Intro event lasting for 4 measures, you can insert 4 empty measure after this event, and a Variation event at the end of the Intro, beginning at the 4th empty measure.

Del (Delete) button

When a side arrow ()) is shown next to a parameter, there is an event at the current position. You can press the Del button next to it, to delete the event at the current position.

Hint: To delete all events starting from the current position, select the "Delete from selected" command from the page menu (see below).

"Soft" transport buttons

Previous or Next Event

Use these buttons to move to the previous or next recorded event.

Previous or Next Step

Use these buttons to go to the previous or next step (1/8, or 192 ticks). If an event is located before the previous or next step, the locator stops on that event. For example, if you are positioned on M001.01.000, and no event exists before M001.01.192, the > button moves to the M001.01.192 location. If an event exists on M001.01.010, the > button stops to the M001.01.010 location.

These commands are effective even if the Measure parameter is not selected.

Previous or Next Measure

Use these buttons to move to the previous or following measure. These commands are effective even if the Measure parameter is not selected.

Done button

Done

Press this button to exit the Step Backing Sequence mode. All changes will be saved to memory.

Hint: Save the Song to disk, by selection the "Save Song" command from the page menu, to avoid losing it when turning the instrument off.

Step Backing Sequence page menu

Press the page menu icon to open the menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.

Insert Measure
Cut Measure
Delete All from Selected
Delete All Styles/Perfs from Slected
Delete All Style Elements from Selected
Delete All Chords from Selected
Delete All Tempos from Selected

Insert Measure

Use this command to insert an empty measure starting from the current measure. All Chord/Acc events contained in the current measure will be moved to the following measure. The event at the Mxxx.xx.000 position (i.e., exactly at the beginning of the measure, like a Time Signature or Style change) will not be moved.

Cut Measure

Use this command to delete the current measure. All Chord/Acc event contained in the following measures will be moved one measure back.

Delete All from Selected

Use this command to delete events of all types, starting from the current position.

Note: All events on the very first tick (M001.01.000), like Perf, Style, Tempo, Chord, Style Element selection, cannot be deleted.

Delete All Styles/Perfs from Selected

Delete All Styles Elements from Selected

Delete All Chords from Selected

Delete All Tempos from Selected

Select one of these commands to delete all events of the corresponding type, starting from the current position to the end of the Song. To delete all events of the same type from the whole Song, go back to the M001.01.000 position, and select one of these commands.

Note: All events on the very first tick (M001.01.000), like Perf, Style, Tempo, Chord, Style Element selection, cannot be deleted.

Step Backing Sequence procedure

Here is the general Step Backing Sequencer recording procedure.

Hint: Before entering Step Backing Sequence mode to edit an existing Song, select the "Save Song" command from the page menu, and save the Song to disk. This way, you will have a copy of the Song, in case you don't like the results of your editing.

- 1. While in Sequencer mode, press the REC button, and choose the "Step Backing Sequence" recording option.
- 2. Select the Measure parameter, and go to the desired position in the Song, by using the TEMPO/VALUE controls. Alternatively, you can move the locator using the "soft" transport buttons in the display. See ""Soft" transport buttons" on page 172.
- 3. Select the parameter type (Style, Performance, Tempo...) to insert, edit or delete at the current position. If an arrow (▶) appears next to a parameter, the shown event has been inserted at the current position.
- Use the TEMPO/VALUE controls to modify the selected event. Delete it by pressing the Del button next to the event. When editing a parameter without the arrow () next to it, a new event is inserted at the current position.
- **5.** Exit the Step Backing Sequence recording mode, by pressing the Done button in the display.
- Press > (PLAY/STOP) in the SEQUENCER 1 section to listen to the consequence of your editing. If they are fine, save the Song to disk.

Edit menu

From any page, press the MENU button to open the Sequencer edit menu. This menu gives access to the various Sequencer edit sections.

When in the menu, select an edit section, or press EXIT to exit the menu.

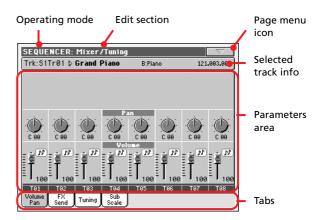
When in an edit page, press EXIT or the SEQUENCER button to go back to the main page of the Sequencer operating mode.

SEQUENCER Menu	Main Page	
Mixer Tuning	Effects	Track Controls
Event Edit	Song Edit	Preferences

Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by pressing the corresponding tab on the lower part of the display.

Edit page structure

All edit pages share some basic elements.



Operating mode

This indicates that the instrument is in Sequencer mode.

Edit section

This identifies the current edit section, corresponding to one of the items of the edit menu (see "Edit menu" on page 173).

Page menu icon

Press this icon to open the page menu (see "Page menu" on page 182).

Parameters area

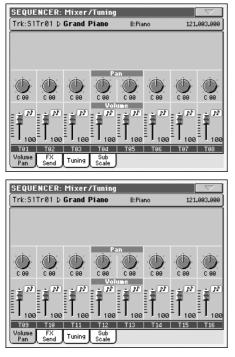
Each page contains various parameters. Use the tabs to select one of the pages. For detailed information on the various types of parameters, see sections starting from page 174.

Tabs

Use tabs to select one of the edit pages of the current edit section.

Mixer/Tuning: Volume/Pan

This page lets you set the volume and pan for each Song track. Use the TRK. SEL. button to switch between Song tracks 1-8 and 9-16.



Pan

Track position in the stereo field.

L-64...L-1 Left stereo channel.

C 00 Center.

R+1...R+63 Right stereo channel.

Off If the track's output status is Left&Right (normal setting), the direct (uneffected) signal is not sent to the outputs; only the FX signal is heard for this track.

If the track is sent to a separate output, no FX is sent to any output.

To program the output status for each track, see "Audio Output: Sty/Kbd" on page 233.

Volume

Track's volume.

0...127 MIDI value of the track's volume.

Play/Mute icon

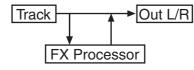
Track's play/mute status.

Play status. The track can be heard.

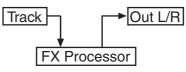
Mute status. The track cannot be heard.

Mixer/Tuning: FX Send

This page lets you set the level of the track's direct (uneffected) signal going to the Internal FX processors. The effect processors included in Pa1X are connected in parallel, so you can decide which percentage of the direct signal can be effected:

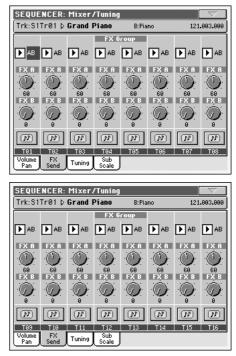


In case you do not want to send a track's direct signal to the output, but only the effected signal (as when using "insert" effects, like Rotary, Distortion, EQ...), just set the Pan to Off (see "Pan" above):



There are four Internal FX processors in Sequencer mode, grouped in two pairs (AB and CD). Usually you will create Songs with only a pair (preferably AB), but you can create Songs using both FX pairs. We suggest to use A and C as reverb processors, and B and D as modulating effect processors.

Use the TRK. SEL. button to switch between Song tracks 1-8 and 9-16, and vice-versa.



FX Groups

▶ SONG

►SONG

▶ SONG

▶ SONG

▶ SONG

Use this pop-up menu to select one of the two FX groups (AB or CD).

Send level

0...127 Level of the track (direct) signal sent to the effect processor.

Play/Mute icon

Track's play/mute status.

Play status. The track can be heard.

(M) (\mathbf{M})

Mute status. The track cannot be heard.

Mixer/Tuning: Tuning

Parameters

►SONG

►SONG

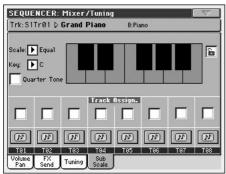
►SONG

▶ SONG

See "Mixer/Tuning: Tuning" on page 84.

Mixer/Tuning: Sub Scale

This page lets you program an alternative scale for the selected tracks (via the "Track Assign" parameter). The remaining tracks (if any) use the basic scale set in Global mode (see "Main Scale" on page 226).



Note: Quarter Tone selection and activation of the Sub-Scale on each track of a Song, can be received by MIDI (i.e., by an external sequencer or controller). Conversely, selection of Quarter Tone settings, or activation of the Sub-Scale on each track of the Song, can be sent by the Pa1X to an external MIDI recorder as System Exclusive data.

Parameters

See "Mixer/Tuning: Sub Scale" on page 84.

Track Assign

Check the parameter corresponding to each track where the Sub-Scale must be used.

Effects: FX Select

This page allows you to select effects to be assigned to the four Internal FX processors (A-D).

SEQUENCER: Effects
A/B FX Group
Send A 📕 FX A 💽 54: Reverb Wet Plate
Wet/Dry: 16: 84
B to H: B Right
Send B FX B 16: Chorus
Wet/Dry: 58:42 Mod.Track: Off
C/D FX Group
Send C 🕻 FX C 🕨 53: Reverb Smooth Hall 🕺 🕇
Wet/Dry: 28:88
D to C: 0 Right
Send D FX D 16: Chorus
Wet/Dry: 50:50 Mod.Track: Off
FX FX A FX B FX C FX D

Note: When you stop the Song, or select a different Song, the default effects are selected again. You can, however, stop the Song, change the effects, then start the Song again. Save the Song to permanently change the effects.

FX A...D

Effects assigned to the corresponding effect processors. Usually, A and C are reverbs, while B and D are modulating effects (chorus, flanger, delay...). For a list of the available effects, see "Effects" on page 322.

Wet/Dry

Mix between the effected (Wet) and direct (uneffected, Dry) signal.

Dry	Direct signal only.
Wet	Effected signal only.

nn:nn Percentage of Wet/Dry signal.

B to A, D to C

Amount of the B effect going back to the input of the A effect, or of the D effect going back to the input of the C effect.

Mod.Track (Modulating Track)

Source track for modulating MIDI messages. You can modulate an effect parameter with a MIDI message generated by a physical controller.

▶ SONG

► SONG

►SONG

Effects: FX A...D

These pages contain the editing parameters for the four effect processors. Here is an example of the FX A page, with the Reverb Smooth Hall effect assigned.

SEQUENCER: Ef	fects		
▶ 54: Reverb We	t Plate		FX A
Reverb Time Esec]:	1.6	High Damp [%]:	30
Pre Delay [msec]:	30	Pre Delay Thru [%]:	20
EQ Trim:	100		
Pre LEQ Gain EdB3:	0	– Pre HEQ Gain EdB3:	0
Wet/Dry:	16: 84	Src: 🕨 Off	Amt: 0
FX Select FX B FX C FX D			

Selected effect

▶ SONG

▶ SONG

►SONG

Select one of the available effects from this pop-up menu. This is equivalent to the "FX A...D" parameters found in the "Effects: FX Select" page (see above).

Parameters

Parameters may differ, depending on the selected effect. See "Effects" on page 322 for a list of available parameters for each effect type.

Track Controls: Mode

Parameter

See "Track Controls: Mode" on page 86.

Track Controls: Drum Volume

Parameter

See "Track Controls: Drum Volume" on page 176.

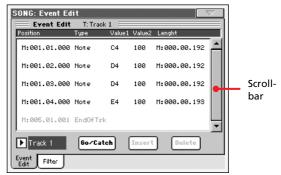
Track Controls: Easy Edit

Parameter

See "Track Controls: Easy Edit" on page 88.

Event Edit: Event Edit

The Event Edit is the page where you can edit each single MIDI event of the selected track. You can, for example, replace a note with a different one, or change its playing strength. See also "Event Edit procedure" on page 177 for more information on the event editing procedure.



Position

Position of the event, expressed in the form 'aaa.bb.ccc':

- 'aaa' is the measure
- 'bb' is the beat
- 'ccc' is the tick (each quarter beat = 384 ticks)

You can edit this parameter to move the event to a different position. You can edit a position in either of the following ways:

- (a) select the parameter, and use the TEMPO/VALUE controls to change the value, or
- (b) select the parameter, then touch it again; the numeric keypad will appear. Enter the new position by dialing in the three parts of the number, separated by a dot. Zeroes at the beginning can be omitted, as well as the least important parts of the number. For example, to enter position 002.02.193, dial "2.2.193"; to enter position 002.04.000 dial "2.4"; to enter position 002.01.000, simply dial "2".

Туре

Type of the event shown in the display. To edit it, select the parameter and use the TEMPO/VALUE controls to change its value.

Value 1 and 2

Values of the event shown in the display. Depending on the selected event, the value may change. This parameter also shows the (non-editable) "End Of Track" marking, when the end of the track is reached.

Here are the events contained in ordinary tracks (1-16).

Туре	First value	Second value
Note	Note name	Velocity
RX Noise	Note name	Velocity
Prog	Program Change number	-
Ctrl	Control Change number	Control Change value
Bend	Bending value	-
Aftt	Mono (Channel) After- touch value	-

▶ SONG

▶ SONG

Туре	First value	Second value
PAft	Note to which the After- touch is applied	Poly Aftertouch value

And here are the events contained in the Master track.

Туре	First value	Second value
Тетро	Tempo change	-
Volume	Master Volume value	-
Meter	Meter change ^(a)	_
Scale	One of the available pre- set Scales	Root note for the selected Scale
UScale (User Scale)	Altered note	Note alteration ^(b)
QT (Quarter Tone)	Altered note	Note alteration (0, 50) ^(b)
QT Clear (Quarter Tone Clearing)	Reset of all Quarter Tone (QT) changes	-
FXType	One of the four available FX processors	Effect number ^(c)
FXSend	Feedback Send (B>A or D>C)	Feedback send level

(a). Meter changes can't be edited or inserted separately from a measure. To insert a Meter change, use the Insert function in the Edit section and insert a series of measures with the new meter. Existing data can then be copied or entered to these measures

(b). To edit User Scale and Quarter Tone settings, select the first value, then select the scale's degree to edit. Edit the second value to change the tuning of the selected note of the scale.

(c). When selecting a different effect number during this edit, default settings will be assigned to this event.

To edit the event Type and Values, select the parameter and use the TEMPO/VALUE controls to change their value. In case of numeric values, you can also press them twice to open the numeric keypad.

Length

Length of the selected Note event. The value format is the same as the Position value. Edit it in the same way.

Note: If you change a length of "000.00.000" to a different value, you can't go back to the original value. This rather uncommon zero-length value may be found in the drum and percussion tracks of Songs made in Backing Sequence mode.

Track

Use this pop-up menu to select the track to edit.

- Track 1...16 One of the ordinary tracks of the Song. These tracks contains musical data, like notes and controllers.
- Master This is a special track, containing Tempo changes, Meter changes, Scale and Transpose data, and the effect parameters.

Scrollbar

Use the scrollbar to browse the event through the list.

Go/Catch

This is a dual-function command.

• While the sequencer is not running, it works as a Go to Measure command. Press it to open the Go to Measure dialog box:



When in this dialog box, select a target measure, and press OK. The first event available in the target measure will be selected.

• While the sequencer is running, it works as a Catch Locator command. Press it to show the event that is currently playing.

Insert

Press the Insert button in the display to insert a new event at the current shown Position. The default values are Type = Note, Pitch = C4, Velocity = 100, Length = 192.

Note: You can't insert new events in an empty, non-recorded Song. To insert an event, you must first insert some empty measures by using the Insert Measure function (see "Song Edit: Cut/Insert Measures" on page 180).

Delete

Press the Delete button in the display to delete the event selected in the display.

Note: The "End of Track" event cannot be deleted.

Event Edit procedure

Here is the general event editing procedure.

- While in the Event Edit page, press ■> (PLAY/STOP) in the SEQUENCER 1 section to listen to the Song. Press it again to stop the Song.
- 2. Select the Filter page, and turn "Off" the filter for the event types you wish to see in the display (see "Event Edit: Filter" on page 178 for more information).
- 3. Return to the Event Edit page.
- 4. Use the "Track" pop-up menu to select the track to edit. The list of events contained in the selected track will appear in the display.

For more information on the event types and their values, see above.

- **5.** Select the "Position" parameter. Use the TEMPO/VALUE controls (or press the parameter again to open the numeric keypad) to change the event's position.
- 6. Select the "Type" parameter and use the TEMPO/VALUE controls to change the event type. Select the "Value 1 and 2" parameters and use the TEMPO/VALUE controls (or press the parameter again to open the numeric keypad) to modify the selected value.
- 7. In the case of a Note event, select the Length parameter, and use the TEMPO/VALUE controls (or press the parameter again to open the numeric keypad) to change the event's length.

• While the sequencer is not running, you may press the Go/Catch button in the display to go to a different measure (see "Go/Catch" above)

• While the sequencer is running, you may use the Go/ Catch button in the display to see the currently playing event in the display (see "Go/Catch" above).

• Use SEQUENCER 1 transport controls to listen to the Song.

- 8. Press the insert button in the display to insert an event at the Position shown in the display (a Note event with default values will be inserted). Press the Delete button in the display to delete the selected event.
- 9. When the editing is complete, you may select a different track (go to step 4).
- 10. When finished editing the whole Song, select the Save Song command from the page menu to save the Song to disk. See "Save Song window" on page 183 for more information on saving a Song.

Event Edit: Filter

This page is where you can select the event types to be shown in the Event Edit page.

SEQUENCER: Event Edit	∇
Filter	
Note/RX Noise	After Touch
Program	Poly After Touch
Control	Pitch Bend
Tempo/Meter	Pa1X Controls
Event Edit Filter	

Turn On the filter for all event types you do not wish to see in the Event Edit page.

Note/RX Noise

Notes and RX Noises.

Program Program Change events.

Control Control Change events.

Tempo/Meter Tempo and Meter changes (Master Track only).

After Touch Mono (Channel) Aftertouch events.

Poly After Touch

Poly Aftertouch events.

Pitch Bend Pitch Bend events.

Pa1X Controls

Controls exclusive of the Pa1X, like the FX and Scale settings. These controls are recorded to the Master Track, and saved as System Exclusive data.

Song Edit: Quantize

The quantize function corrects any rhythm error after recording.

SEQUENCER: Edit	
Quantize	
Track: 🕨 Track 1	
Resolution: 🕨 🎜	
Start Tick: <u>001.01.000</u>	End Tick: 001.01.192
Bottom Note: <u>C-1</u>	Top Note: <u>G9</u>
Exec	sute
m m m	<i>m m m</i>
T01 T02 T03 T04 Quantize Trans- Pose Velocity Insert	T05 T06 T07 T08
Quantize Pose Velocity Insert	Delete Copy Move

After setting the various parameters, press Execute to start the operation.

Track

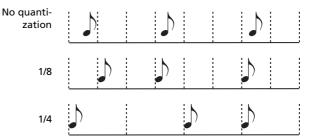
Use this parameter to select a track.

All Quantize will apply to all tracks.

Track 1...16 Quantize will apply only to the selected track.

Resolution

This parameter sets the quantization value. For example, when you select (1/8), all notes are moved to the nearest 1/8 division. When you select 1/4, all notes are moved to the nearest 1/4 division.



▶ (1/32)...↓ (1/4)

Grid resolution, in musical values. A "b...f" character added after the value means swing-quantization. A "3" means triplet.

Start / End Tick

Use these parameters to set the starting and ending points of the range to be quantized.

If you wish to select a four-measure sequence starting at the beginning of the Song, the Start will be positioned at 1.01.000, and the End at 5.01.000.

Bottom / Top Note

Use these parameters to set the bottom and top note of the keyboard range to quantize. If you select the same note as the Bottom and Top parameters, you can select a single percussive instrument in a Drum track.

Note: These parameters are available only when a Drum track is selected.

Song Edit: Transpose

 SEQUENCER: Edit

 Transpose

 Track:
 Track 1

 Value:
 Ø

 Start Tick:
 001.01.000

 End Tick:
 001.01.012

 Bottom Note:
 C-1

After setting the various parameters, press Execute to start the operation.

Execute

M M

M M M

Track

Use this parameter to select a track.

M M

T 93

All All tracks selected (apart for Drum tracks).

Track 1...16 Selected track.

M

Value

Transpose value (±127 semitones).

Start / End Tick

Use these parameters to set the starting and ending points of the range to transpose.

If you wish to select a four-measure sequence starting at the beginning of the Song, the Start will be positioned at 1.01.000, and the End at 5.01.000.

Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to transpose. If you select the same note as the Bottom and Top parameters, you can select a single note, or a single percussive instrument in a Drum track.

Song Edit: Velocity

Here you can change the Velocity value for the notes. An Advanced mode is available, allowing you to select a velocity curve for the selected range. This is useful to create fade-ins or fade-outs.

SEQUENCER: Edit	
- Yelocity	
Track: 🕨 Track 1	
Intensity: <u>100</u> %	Curve: 🕨 Curve 1
Start Vel. Value: 64	End Vel. Value: 127
Start Tick: 001.01.000	End Tick: 001.01.192
Bottom Note: <u>C-1</u>	Top Note: <u>G9</u>
Advanced Exe	cute
m w w m	m m m m
T01 T02 T03 T04 Quantize Trans- Velocity Cut pose Velocity Insert	T05 T06 T07 T08 Delete Copy Move

After setting the various parameters, press Execute to start the operation.

Track

Use this parameter to select a track.

All All tracks selected.

Track 1...16 Selected track.

Value

Velocity change value.

Start / End Tick

Use these parameters to set the starting and ending points of the range to edit.

If you wish to select a four-measure sequence starting at the beginning of the Song, the Start will be positioned at 1.01.000, and the End at 5.01.000.

Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to edit. If you select the same note as the Bottom and Top parameters, you can select a single percussive instrument in a Drum track.

Advanced

When this checkbox is checked, the "Intensity", "Curve", "Start Velocity Value" and "End Velocity Value" parameters can be edited.

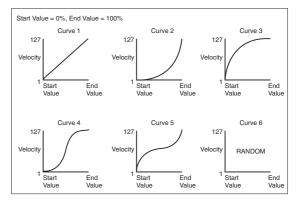
Intensity

(Only available in Advanced mode). Use this parameter to specify the degree to which the velocity data will be adjusted toward the curve you specify in "Curve".

0...100% Intensity value. With a setting of 0 [%], the velocity will not change. With a setting of 100 [%], the velocity will be changed the most.

Curve

(*Only available in Advanced mode*). Use this parameter to select one of the six curves, and to specify how the velocity will change over time.



Start / End Vel. Value

(Only available in Advanced mode). Velocity change at the starting and ending ticks of the selected range.

0...100 Velocity change in percentage.

Here you can transpose the Song, a track or a part of a track.

Song Edit: Cut/Insert Measures

In this page you can cut or insert measures from the Song.

S	EQUENCER:	Edit	∇
ſ	—Cut Measu	re	
	Start:	1	Lenght: <u>1</u>
		Execute	
	Insert Me	asure	
	Start:	1	Lenght: <u>1</u>
			Meter: <u>4/4</u>
		Execute	
	M	MM	n m m
Qu	T01 T02 Jantize Trans- Pose	T03 T04 T0 Velocity Cut Insert Dele	

After selecting the Start and Length parameters, press Execute to start the operation.

After the Cut, the following measures are moved back, to fill the cut measures.

After the Insert, the following measures are pushed forward to accommodate the inserted measures.

Start

First measure where to begin cutting/inserting.

Length

Number of measures to be cut/inserted.

Meter

Meter of the measures to be inserted.

Song Edit: Delete

This page is where you can delete MIDI events from the Song.

SEQUENCER: Edit
Delete
Track: 🕨 Track 1
Event: 🕨 All
Start Tick: 001.01.000 End Tick: 001.01.192
Bottom Note: <u>C-1</u> Top Note: <u>G9</u>
Execute
W W W W W W
T91 T92 T93 T94 T95 T96 T97 T98 Quantize Trans- Velocity Cut Delete Copy Move

After setting the various parameters, press Execute to start the operation.

Track

Use this parameter to select a track.

- All All tracks selected.
- Track 1...16 Selected track.
- Master Master track. This is where the Tempo, Scale and Effect events are recorded.

Event

Type of MIDI event to delete.

All	All events. Measures will not be removed from the Song, and will remain empty.
Note	All notes in the selected range.
Dup.Note	All duplicate notes. When two notes with the same pitch are encountered on the same tick, the one with the lowest velocity is deleted.
After Touch	After Touch events.
Pitch Bend	Pitch Bend events.
Prog.Change	Program Change events, excluding the bundled Control Change #00 (Bank Select MSB) and #32 (Bank Select LSB).
Ctl.Change	All Control Change events, for example Bank Select, Modulation, Damper, Soft Pedal
CC00/32C0	C127 Single Control Change events. Double Control Change numbers (like 00/32) are MSB/LSB bun-

Start / End Tick

dles.

Use these parameters to set the starting and ending points of the range to edit.

If you wish to select a four-measure sequence starting at the beginning of the Song, the Start will be positioned at 1.01.000, and the End at 5.01.000.

Bottom / Top Note

Use these parameters to set the bottom and top of the keyboard range to delete. If you select the same note as the Bottom and Top parameters, you can select a single note, or a single percussive instrument in a Drum track.

Note: These parameters are available only when the All or Note options are selected.

Song Edit: Copy

Here you can copy tracks or phrases.



After setting the various parameters, press Execute to start the operation.

Note: If you copy too many events on the same "tick", the "Too many events!" message appears, and the copy operation is aborted.

Mode

Use this parameter to select the Copy mode.

Merge	Copied data are merged with the data at the target position.
Overwrite	Copied data replace all data at the target position.

Warning: Deleted data cannot be recovered!

From Track... To Track

Use these parameters to select the source and target track to copy.

All All tracks. The target track cannot be selected.

Track 1...16 Selected source and target tracks.

Start Measure... End Measure

These parameters are the starting and ending measure to copy. For example, if From Measure=1 and To Measure=4, the first four measures are copied.

To Measure

This parameter is the first of the target measures.

Repeat Times

Number of times the copy must be executed. Copies will be consecutive.

Song Edit: Move

Here you can shift a track forward or backward by just a few ticks or whole measures.

SEQUENCER:	Edit		
Move			
Track:	▶ Track 1		
Start Tick:	001.01.000	To Tick:	001.01.192
End Tick:	001.01.192		
	Exe	cute	
m m	MM	M	m m
T01 T02 Quantize Trans- pose	T03 T04 Velocity Cut Insert	T05 T06 Delete Copy	T07 T08 Move

After setting the various parameters, press Execute to complete the operation.

Track

Use these parameters to select the track you want to move.

Track 1...16 Selected track.

Start / End Tick

These parameters set the starting and ending point of the range to move.

To Tick

This parameter allows you to set the target starting point of the moved track.

Preferences: Global Setup

In this page, you can select a MIDI Setup and the Harmony track for the Sequencer mode.

SEQUENCER: Preferences	7
Global-Sequencer Setup	
Midi Setup: 🕨 03 Sequencer 1	
Harmony Track: 🕨 Off	
Seq. Setup	

Note: These settings are stored in the Sequencer Setup area of the Global file. (Parameter of this kind are marked with the **>GBL**^{Seq} abbreviation through the manual). After changing these settings, select the Write Global-Sequencer Setup command from the page menu to save them to the Global.

Midi Setup

► GBL^{Seq}

MIDI channels for the Sequencer mode can be automatically configured by selecting a MIDI Setup with this parameter. See "MIDI" on page 273 for more information on using MIDI Setups.

Note: To automatically select a MIDI Setup when entering the Sequencer mode, select the Write Global-Sequencer Setup command from the page menu.

For detailed information on MIDI Setup settings, see "MIDI Setup" on page 321.

Note: After selecting a MIDI Setup, you can go to the Global mode and apply any change to each channel setting. To store these changes to a MIDI Setup, while still in Global mode select the Write Global-Midi Setup command from the page menu. All MIDI Setups can be freely customized and overwritten.

Hint: To restore the original MIDI Setups, load the original Factory data again (downloadable from <u>www.korgpa.com</u>).

Harmony Track

▶ GBL^{Seq}

ference

Ref

The Voice Processor gets the chord notes from the track selected with this parameter.

Hint: Go to the Voice Processor Preset section of the Global mode to try different Voice Processor Presets while creating or editing a Song.

Off No track sends notes to the Harmony module of the Voice processor. Chords can still be received from the MIDI IN.

Seq.1-Track 1...16

Chords are sent from one of Sequencer 1 tracks.

Page menu

Press the page menu icon to open the menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.

Write Global-Seq. Setup
Load Song
Save Song
Undo
Overdub Step Recording
Overwrite Step Recording
Delete Song
Delete Current Track
Solo Track
Exit from Record

Write Global-Seq. Setup

Select this command to open the Write Global-Seq. Setup dialog box, and save global settings that are unique to the Sequencer mode. (See "Write Global-Sequencer Setup dialog box" on page 182).

Load Song

Select this command to open the Song Select window, and load a Song to the sequencer. (See "Song Select window" on page 182).

Please note that in Sequencer mode the file is loaded to memory – contrary to Song Play mode, where Songs are read directly from disk.

Save Song

Select this command to save the new or edited Song to disk as a Standard MIDI File. The file is automatically added the ".MID" extension. After selecting this command, the Save Song page appears (see "Save Song window" on page 183).

Warning: Turning the instrument off will delete the Song from memory. Save your Song to disk to avoid losing it.

Warning: The Song is also lost when switching from Sequencer to Style Play or Song Play mode, without previously saving the Song to disk.

Undo

When selecting this command, the latest operation is canceled, and data are reverted to the previous situation.

Overdub Step Recording

Only available in Record mode. Select this command to enter Overdub Step Record mode. This recording mode lets you enter events one at a time, adding events to the existing events. (See "Record mode: Step Record page" on page 166).

Overwrite Step Recording

Only available in Record mode. Select this command to enter Overwrite Step Record mode. This recording mode lets you enter events one at a time, overwriting all existing events. (See "Record mode: Step Record page" on page 166).

Delete Song

Select this command to delete the Song and create a new, blank Song.

Delete Current Track

Select this command to delete the track currently selected in the Track area (see "Track volume/status area" on page 165).

Solo Track

Select the track to be soloed, and check this item. You will hear only the selected track, and the 'Solo' warning will flash on the page header.

Uncheck this item to exit the Solo function.

Exit from Record

Only available in Record mode. Select this command to exit the Record mode, and go back to the Main page of the Sequencer Play mode (see "Sequencer Play - Main page" on page 161).

Write Global-Sequencer Setup dialog box

Open this window by selecting the Write Global-Song Setup item from the page menu. Here, you can save MIDI Setups (see "Midi Setup" on page 181), that are saved to the Global file.

W-it- 01-1-1 0	
₩rite Global-So Write Global-Sequence	
Cancel	ОК

Parameters saved in the Sequencer Setup area of the Global are marked with the >GBL^{Seq} symbol through the user's manual.

Song Select window

This window appears when you select the "Load Song" command from the page menu, or press the SELECT button in the SEQUENCER 1 sections on the control panel. See "Song Select window" on page 74 for details.

Save Song window

The recorded Song is contained in RAM, and is lost when turning the instrument off. The Song is also lost when you overwrite it in Record mode, or if you confirm the warning message when switching to the Style Play or Song Play mode. You must save to disk any Song you wish to preserve.

This window appears when you select the "Save Song" command from the page menu.

Press EXIT to exit from this page and go back to the main page of the Sequencer operating mode without saving the Song.

Song pa	th	Directory
SEQUENCEL 1	Save Song	
Type * File		Date
MYFILES		12-96-93 16:51
VORK		12-06-03 16:51
) 34K	08-05-01 02:00
	D 107K	08-05-01 02:00
MD) A CANON.MID	14K	08-05-01 02:00
HD Op	en Close	Save

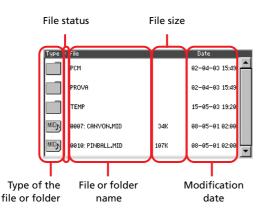
Storage device

Song path

This line shows the path of the location where you are saving the Song.

Directory

This is the list of the selected device's content.



Use the scrollbar to scroll the list items.

As an alternative, you can select one of the items, and use the TEMPO/VALUE controls to scroll.

Keep the SHIFT button pressed, and press DOWN or UP, to jump to the previous or next alphabetical section.

Storage device

Use this pop-up menu to select one of the available storage devices where to save the Song.

Device	Туре
FD	Floppy disk
HD	Hard disk (optional on the Pa1X with speakers)

Open

Opens the selected folder (item whose icon looks like this: ____).

Close

Closes the current folder, returning to the parent ("upper") folder.

Save

Press this button to open the Save Song dialog box, and save the Song to the current directory.

Save Song
Song Name: T NewSong
Το
HD:V
Cancel OK

• If no file has been selected in the display, prior to pressing Save, the "NewSong" default name will be automatically assigned to the Song.

Note: If a file is selected, just touch the storage device name to deselect it.

• If a file has been selected in the display, prior to pressing Save, the name of the selected file will be automatically assigned to the Song.

Reference

In any of the above situations, press the **T** (Text Edit) button to edit the Song name.

Warning: If a file with the same name is already in the current directory, a message will warn you. If you confirm, the existing file will be overwritten. Select a file before saving only if you want to overwrite it (i.e., in case you are saving changes to an existing file).

Empty measure at the beginning of the Standard MIDI File

When saving a Song as an SMF, an empty measure is automatically inserted to the beginning of the Song. This measure contains various Song initialization parameters.

Play/Mute status saved with the Song

When saving a Song, the Play/Mute status is saved with the Song. This status is preserved also when playing back the same Song in Song Play mode.

Master Transpose saved with the Song

When saving a Song, the Master Transpose value is saved with the Song. Since this value is saved as System Exclusive data, it is preserved also when playing back the Song in Song Play mode.

Hint: Since the Master Transpose is a global parameter, loading a Song with a non-standard transposition may result in unwanted transposing when loading other Songs that do not contain their own transposition data. To transpose a Song it is advisable to use the Transpose function in the Edit section of the Sequencer mode (see "Song Edit: Transpose" on page 179).

You may also lock the Master Transpose, to avoid unwanted transposition. See "General Controls: Lock" on page 227 of the Global chapter.

As a general rule, you should use the Master Transpose (TRANS-POSE buttons on the control panel) when you need to transpose Keyboard tracks together with the Song. You should use the Edit mode Transpose function (see "Song Edit: Transpose" on page 179) when only the Song has to be transposed.

Note: The Master Transpose value is always shown on the page header:



Save Song procedure

- 1. If you are in Record mode, stop the sequencer and exit from the Record mode. Then go back to the main page of the Sequencer Play mode (see "Sequencer Play Main page" on page 161).
- 2. Select the Save Song command from the page menu. The Save Song page appears.
- **3.** Select the folder where you want to save the Song into. Use the Open and Close commands to browse open or close folders. Use the scrollbar to browse through the files.
- 4. When you are in the directory where you want to save your Song to, press the Save button in the display.
 - To overwrite an existing file, select it before pressing Save.

• To **create** a new file, do not select any file before pressing Save. The "NewSong" ("NEWSONG.MID" on disk) name will be automatically assigned to the Song.

- 5. After pressing the Save button, the Save Song dialog box will appear.
- 6. If you like, press the **T** (Text Edit) button to edit the name.
- Press OK to confirm saving, or Cancel to stop the Save operation.

Sound operating mode

The Sound operating mode is where you can listen to individual Sounds, and edit them.

To select a Sound, see the "Basic operations" chapter.

In this mode, the selected Sound can always be played across the full keyboard range.

While in a different operating mode, you can easily select the Sound to be edited when switching to the Sound mode. Just select the track the Sound to be edited is assigned to, then keep the SHIFT button pressed while pressing the SOUND button.

Hint: This is useful to see the Bank Select/Program Change numbers when programming a Song on an external sequencer.

Note: The Sound uses the same Scale of the latest selected Performance or STS.

The MIDI channel

In Sound mode, Pa1X receives and transmits on the same channel of the Upper 1 track. If the Global channel is assigned, notes can be received also on this channel. See "MIDI: MIDI In Channels" on page 232 and "MIDI: MIDI Out Channels" on page 232 for more information.

How to select oscillators

While in an edit page requiring an oscillator to be selected for editing, use the vertical row of buttons on the right (1...5) to select one of the available oscillators. The number of available oscillators depends on the "Oscillator Mode" parameter (see page 188).

When oscillators cannot be select, since the parameter contained in the current page are global and valid for the whole Sound, these buttons are greyed out, and cannot be selected.

Sounds, Drum Kits, Digital Drawbars

Pa1X features three different kinds of Sounds:

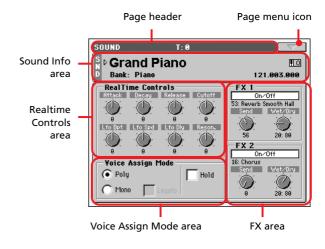
- Ordinary Sounds. These are normal instrument Sounds, like pianos, strings, basses.
- Drum Kits. These are drum and percussion kits, where each note of the keyboard is a different percussive instrument. You can find Drum Kits in the DRUM & PERC and USER DK banks.
- Digital Drawbars. These are Sounds with a very complex structure, and a special usage. See "Digital Drawbars page" on page 187 for more information.

Before pressing MENU to enter the edit environment, you should select a Sound of the type you wish to edit or create.

Note: Notes pointing to special Drum Kit features are marked by the **DRUM** icon.

Main page

Here is the main page of the Sound operating mode.



Page header

This line shows the current operating mode and transposition.

SOUND	T: 0	
T	T	
Operating mode	Master Transpose	
name	(in semitones)	

Operating mode name

Name of the current operating mode.

Master transpose

Master transpose value in semitones. This value can be changed using the TRANSPOSE buttons on the control panel.

Page menu icon

Press the page menu icon to open the menu. See "Page menu" on page 206 for more information.



Sound Info area

This is where basic details for the Sound are shown. Press anywhere in this area to open the Sound Select window.

Sound name

Name of the Sound assigned to the corresponding Keyboard track.

Bank

Bank the current Sound belongs to.

Bank Select / Program Change sequence

Bank Select MSB / Bank Select LSB / Program Change numbers, in the form "CC00.CC32.PC".

- CC00 This section shows the value of the Control Change (CC) 00 message (or Bank Select MSB) for the selected Sound.
- CC32 This section shows the value of the Control Change (CC) 32 message (a.k.a. Bank Select LSB) for the selected Sound.
- PC This section shows the value of the Program Change (PC) message for the selected Sound. Values are in the standard 0-127 MIDI numbering format.

Note: Some manufacturers could use the 1-128 numbering system; when connecting your Pa1X to an instrument of this kind, increment the PC value by 1 unit.

Octave Transpose icon

Non editable. Octave transpose value.

Realtime Controls area

Controls in this area allow you to edit the main parameters of the Sounds assigned to each track.

While in this page, Assignable Sliders are linked to the corresponding Realtime Controls (a.k.a. Easy Sound Edit parameters).

Assignable Slider	Realtime Control	Assignable Slider	Realtime Control
1	Attack	5	LFO Depth
2	Decay	6	LFO Speed
3	Release	7	LFO Delay
4	Cutoff	8	Resonance

Note: All values refer to the original values of the Sound.

Note: When selecting the Write Sound command from the page menu, current parameter values, after editing the Realtime Controls, are saved with the Sound. After saving, Realtime Controls are set back to the default position.

Note: After selecting a different Sound, Realtime Control values are automatically set to zero.

- Attack time. This is the time during which the Attack sound goes from zero (at the moment when you strike a key) to it's maximum level. Decay time. Time to go from the final Attack level Decay to the beginning of the Sustain. Release time. This is the time during which the Release sound goes from the sustaining phase, to zero. The Release is triggered by releasing a key. Cutoff Filter cutoff. This sets the sound brightness. LFO Depth Intensity of the Vibrato (LFO). LFO Speed Speed of the Vibrato (LFO).
- LFO Delay Delay time before the Vibrato (LFO) begins, after the sound starts.

Resonance Use the Filter Resonance to boost the cutoff frequency.

Voice Assign Mode

Poly

The Sound will play polyphonically, allowing you play chords.

Mono

The Sound will play monophonically, producing only one note at a time.

Hold

Use this parameter to keep the notes sustained even after releasing the keys.

Note: Please remember the Hold must be On before playing the note to be held.

Legato

This parameter is available when the Mono option is selected.

Note: If "Legato" is On, certain multisamples or keyboard locations may produce an incorrect pitch.

On

Legato is on. When multiple note-on's occur, the first note-on will retrigger the sound, and the second and subsequent note-on's will not retrigger.

When legato is on, multiple note-on's will not retrigger the voice. If one note is already on and another note is turned on, the first voice will continue sounding. The oscillator sound, envelope, and LFO will not be reset, and only the pitch of the oscillator will be updated. This setting is effective for wind instrument sounds and analog synth-type sounds.

Off Legato is off. Notes will always be retriggered when note-on occurs.

When legato is off, multiple note-on's will retrigger the voice at each note-on. The oscillator sound, envelope, and LFO will be reset (and retriggered) according to the settings of the Sound.

FX Area

In Sound mode, the Sound uses its own effects instead of relying on A-D effects. Two effect processors (FX1 and FX2) are available.

On/Off

Use this button to turn on or off the corresponding effect.

Note: When an effect parameter is edited, this parameter is automatically set to On.

Note: If the FX1 and FX2 effects have been set to Off, FX Send values are set to zero when saving the Sound.

Selected Effect

Non editable. This shows the effect assigned to the corresponding FX processor. To select a different effect, see "FX1/2" on page 205.

Send

Use this knob to adjust the level of the corresponding effect.

Wet/Dry

Use this knob to adjust the mix between the wet (effected) and dry (uneffected) signal for the corresponding effect.

Digital Drawbars page

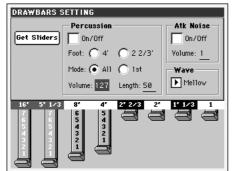
DIGITAL DRAWBARS are different from ordinary Sounds. Their parameters are not saved as a new Sound, but can be saved to a Performance. Therefore, when entering the Digital Drawbars page, the MENU button is disabled.

Note: In Style Play and Backing Sequence mode, only a Digital Drawbar Sound is available for the Keyboard tracks, and one for the Style tracks. Save them to a Performance (see "Write Performance dialog box" on page 95).

Note: In Song Play mode, there is a Digital Drawbars Sound for the Keyboard tracks, one for Song tracks 1-8, another one for Song tracks 9-16.

Note: In Sequencer mode there is a Digital Drawbars Sound for Song tracks 1-8, one for Song tracks 9-16.

When you select the DIGITAL DRAWBARS bank, the Digital Drawbar page appears, and the current setting is assigned to the selected track.



When entering this page, the SLIDER MODE button is automatically set to DRAWBARS, so you can use the sliders to change each foot volume. As an alternative, touch a foot and use TEMPO/VALUE controls to change its value.

Each foot refers to the pipe length in a pipe organ, in which the sound is produced by pipes of different length. Longer pipes mean a lower sound; therefore, the 16' drawbar produces the lowest pitched sound, while the 1' drawbar produces the highest pitched sound.

Percussion

The percussion adds a percussive sound to the attack segment of the organ sound.

On/Off

Use this parameter to turn percussion on or off.

Foot

Use this parameter to select a percussion register.

- 4' Percussion added to the 4' foot.
- $2^{2}/_{3}$ Percussion added to the $2^{2}/_{3}$ foot.

Mode (Percussion Mode)

This parameters lets you decide if the percussion sound has to be triggered on the first note of a group of held notes, or to all notes.

- All The percussive attack is played on all notes of a chord.
- 1st The percussive attack is played only on the first note of a chord or a group of held notes. Release all notes to trigger the percussion again.

Volume (Percussion Volume)

Level of the percussive sound.

0...99 Level.

Length (Percussion Length)

Decay speed of the percussive sound. 0...99 Decay time.

Atk Noise (Attack Noise)

On/Off

Turns the noise component of the percussive attack on of off.

Volume

Level of the attack noise (from 0 to 7).

Wave (Drawbar Wave)

Waveshape of the drawbars.

Mellow	A mellow-sounding synthetic wave.
Hard	A harder-sounding synthetic wave.

Edit menu

From any page, press the MENU button to open the Sound edit menu. This menu gives access to the various Sound edit sections.

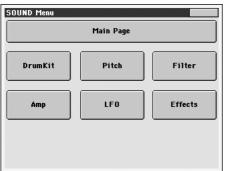
When in the menu, select an edit section, or press EXIT or SOUND to exit the menu and return to the main page. To return to the main page, you can also select the Main Page menu item.

When in an edit page, press EXIT or the SOUND button to return to the main page of the Sound operating mode.

When an ordinary Sound is selected:



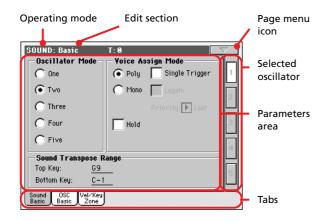
• When a Drum Kit is selected, the "Basic" section is replaced by the "DrumKit" section:



Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by pressing the corresponding tab on the lower part of the display.

Edit page structure

All edit pages share some basic elements.



Operating mode

This indicates that the instrument is in Sound mode.

Edit section

This identifies the current edit section, corresponding to one of the items of the edit menu (see "Edit menu" on page 188).

Page menu icon

Press this icon to open the page menu (see "Page menu" on page 206).

Selected oscillator

Use these buttons to select the oscillator to edit.

Parameters area

Each page contains various parameters. Use the tabs to select one of the available pages. For detailed information on the various types of parameters, see sections starting from page 188.

Tabs

Use tabs to select one of the edit pages of the current edit section.

Basic: Sound Basic

Here you can make basic settings for the Sound, such as basic oscillator settings, the oscillator count, and the polyphonic mode.

SOUND: Basic T: 0		
-Oscillator Mode-	Voice Assign Mode	
C One	💿 Poly 📃 Single Trigger 📘 1	
● Two	Mono Legato	
C Three	Priority: 🕨 Last	
C Four	Hold 3	
C Five	4	
Sound Transpose Range		
Top Key: G9	_	
Bottom Key: C-1		
Sound OSC Vel/Key Basic Basic Zone		

Oscillator Mode

Use these radio buttons to specify the basic Sound type; whether it will use one or more oscillators (up to five).

The total amount of polyphony varies depending on the number of oscillators used by the Sound (a maximum of 62 with only 1 oscillator, or a maximum of 12 with 5 oscillators).

Voice Assign Mode

This is the polyphonic mode of the Sound.

Poly	The Sound will play polyphonically, allowing you
-	play chords.

Mono The Sound will play monophonically, producing only one note at a time.

Single Trigger

This parameter is available when the selected mode is Poly.

- On When the same note is played repeatedly, the previous note will be silenced before the next note is sounded, so that the notes do not overlap.
- Off When the same note is played repeatedly, the previous note will not be silenced before the next note is sounded.

Legato

This parameter is only available when the selected mode is Mono. It is the same found on the main page of the Sound mode.

See "Legato" on page 186 for information on this parameter.

Priority

This parameter is available when the selected mode is Mono. It specifies which note will be given priority to play when two or more notes are played simultaneously.

Low	Lowest note will take priority.
-----	---------------------------------

- High Highest note will take priority.
- Last Last note will take priority.

Hold

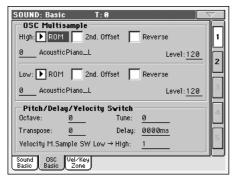
Use this parameter to keep the notes sustained even after releasing the keys.

Sound Transpose Range

Use these parameters to set a range for transposition. Inside this range notes are transposed. Outside this range, they are not transposed. This is useful to avoid RX Sounds being transposed when transposing a Sound.

Basic: OSC Basic

The multisample(s) on which the Sound will be based can be selected here for each of the five oscillators. Each oscillator can use 1 or 2 multisamples, each one assigned to the High or Low layer.



OSC Multisample

High/Low Bank/Num

Use these parameters to select a different multisample for each of the High and Low layers. You can use velocity to switch between the two multisamples. Offset, Reverse and Level can be adjusted independently for the High and Low multisamples. The High and Low pop-up menus is where you select the bank (ROM, RAM or EXB), while the numeric field under it is for selecting the multisample inside the selected bank. The Sound name appears on its right.

The multisample you select for the High layer will be triggered by velocities higher than the value of the "Velocity Multisample Switch Low-High" parameter (see page 190). If you do not wish to use velocity switching, set the switch to a value of 001, and select only the High multisample.

- ROM The Flash-ROM bank. The internal Flash-ROM contains 445 different multisamples (preset multisamples), supplied by Korg as standard.
- RAM RAM multisample, read from the RAM. These are user-loaded or created multisamples.

Note: If you create a new Sound based on a RAM multisample, the RAM samples must be loaded from disk. See "PCM Autoload" and "Load PCM button" on page 266 (Disk mode) for information on loading PCM samples, either at startup or with a dedicated command.

EXB1, EXB2 EXB1 or EXB2 multisample, loaded from the corresponding optional EXB board (if installed).

Note: Each multisample has an upper note range limit, and cannot produce sound when played above that limit.

2nd Offset

These parameters specify the point where the multisample(s) will begin to play. For some multisamples this parameter will not be available.

- On The sound will begin from the offset location pre-determined for each multisample.
- Off The sound will start from the beginning of the multisample waveform.

Reverse

The multisample will be played in reverse. In the case of Flash-ROM or optional (RAM or EXB) multisamples that were originally specified to loop, the multisample will be played back in "one-shot" reverse mode. If the multisample was originally set to reverse, it will playback without change.

- On The multisample will playback in reverse.
- Off The multisample will play back normally.

Level

These parameters specify the level of each multisample.

0...127 Multisample level.

Note: Depending on the multisample, high settings of this parameter may cause the sound to distort when a chord is played. If this occurs, lower the level.

Pitch/Delay/Velocity Switch

Octave

Use this parameter to adjust the pitch of the selected oscillator in octave units. The normal octave of the multisample is "0".

-2...+1 Octave transposition.

Transpose

Use this parameter to adjust the pitch of the selected oscillator in semitone steps over a range of ± 1 octave.

-12...+12 Transposition in semitones.

Tune

Use this parameter to adjust the pitch of the sample in one-cent steps (a semitone is 100 cents) over a range of ± 1 octave.

-1200...+1200

Fine-tune value in cents.

Delay

This parameter sets a delay time from the note-on to the real beginning of the sound. With a setting of KeyOff, the sound will begin when note-off occurs. This is useful to create sounds such as the "click" that is heard when a harpsichord note is released. In this case, set the "Sustain" parameter to 0 (see page 199).

Key Off The sound will begin when the note is released.

0...5000ms Delay time in milliseconds.

Velocity Multisample Switch Low-High

This is the velocity value dividing the High and Low layers for the selected oscillator. Notes struck harder than this value will be played by the High multisample.

Basic: Vel/Key Zone

Here you can set a note and velocity range "window" for the selected oscillator.

	UND: Basic
	Yelocity Zone —
1	Тор:
	Bottom:
2	Keyboard Range -
	Top Key:
З	Bottom Key:
	Scaled ¥elocity-
4	Тор:
	Bottom:
- 5	
	und OSC Vel/Ke sic Basic Zone

Velocity Zone

Here you can specify the velocity range for the selected oscillator.

Note: You cannot set the Bottom Velocity higher than the Top Velocity, nor the Top Velocity lower than the Bottom Velocity.

0...127 Assigned velocity.

Keyboard Range

Here you can specify the note range for the selected oscillator.

Note: You cannot set the Bottom Key higher than the Top key, nor the Top Key lower than the Bottom key.

C-1...G9 Assigned note.

Scaled Velocity

Use these parameters to scale velocity values received by the oscillator. By using the "Velocity Zone" function (see above), an oscillator may be limited to a restricted range (say, 10 to 20), that may result in weak dynamics when the associated sample is triggered.

By assigning a different value to these parameters, the restricted range will be converted to a wider range (for example, the lowest range value of 10 may be converted to a Scaled Velocity value of 0, and the highest range value of 20 may be converted to a Scaled Velocity value of 127). All values included between the minimum and maximum value are scaled accordingly.

As a consequence, you can create an RX Sound of guitar, by assigning the guitar fret noise to the 10~20 velocity range. When a dynamics value between 10~20 is received, the real velocity value is scaled to the Scaled Velocity values, and plays louder.

0...127 Assigned velocity value.

DrumKit: Sample Setup (Drum Kits)

This page appears when you edit a Drum Kit. Here you can select a different percussive sample for each key and layer.

DRUM Drum Kits use only one oscillator.

	SOUND: DrumKit T: 0
	KEY:C-1 Layers: 🕨 1 🔽 Assign
Selected Layer 🚤	Lauer Selector & Yelocitu Sample Switch
Velocity 🗕	$001 \rightarrow \underline{127} \rightarrow \underline{127} \rightarrow \underline{127} \rightarrow \underline{127} \rightarrow \underline{127} \rightarrow \underline{127} \rightarrow \underline{127}$
Switches	DrumSample
	ROM 2nd. Offset Rev Level: -65 Transpose: 0
	45 SD Wood 2 pp (Stereo) Tune: 0
	Cutoff: <u>0</u> Resonance: <u>0</u> Attack: <u>0</u> Decay: <u>+17</u>
	Sample Voice Setup Mixer

Кеу

Key

Key in edit. You can press a key on the keyboard, while this parameter is selected, to select a key.

Layers

Number of layers assigned to the selected key. Depending on the number of selected layers, you can have a different number of velocity switches.

Assign

Use this parameter to turn the sample on/off.

On	The sample is assigned to the selected key.

Off	The sample is not assigned. The sample assigned
	to the next highest assigned key is used instead.

Layer Selector & Velocity Sample Switch

Selected Layer

Use these radio buttons to select the layer to edit. The available layers depends on the "Layers" parameter.

Velocity Switches

Each of these values separates the two adjacent layers for the selected sample/key. Notes stricken harder than a velocity switch will be played by the layer on the right, while notes stricken softer are played by the layer on the left.

The first and last values are not editable, and are always 001 and 127 (respectively).

Drum Sample

Bank/Num

Use these parameters to select a different Drum Sample for each layer. You can use velocity to switch between the available samples. Offset, Reverse and Level can be adjusted independently for the various multisamples.

The pop-up menu is where you select the bank (ROM, RAM or EXB), while the numeric field under it is for selecting the sample inside the selected bank. The sample name appears on its right.

The sample you select for the current layer will be triggered by velocities higher than the value of the "Velocity Switches" parameter (see page 191). If you do not wish to use velocity switching, assign just one layer to the selected key, and assign a sample only to Layer 1.

- ROM The Flash-ROM bank. The internal Flash-ROM contains 445 different samples (preset samples), supplied by Korg as standard.
- RAM RAM sample, read from the RAM. These are user-loaded or created samples.

Note: If you create a new Drum Kit based on a RAM sample, the RAM samples must be loaded from disk. See "PCM Autoload" and "Load PCM button" on page 266 (Disk mode) for information on loading PCM samples, either at startup or with a dedicated command.

EXB1, EXB2 EXB1 or EXB2 sample, loaded from the corresponding optional EXB board (if installed).

Note: Each sample has an upper note range limit, and may not produce sound when played above that limit.

2nd Offset

These parameters specify the point where the sample will begin to play. For some samples this parameter will not be available.

- On The sound will begin from the offset location pre-determined for each sample.
- Off The sound will start from the beginning of the sample.

Reverse

The sample will be played in reverse. For more information see "Reverse" on page 189.

Level

This parameter specifies the level of the sample. For more information, see "Level" on page 189.

Mono/Stereo indicator

Non editable. This indicator tells if the selected sample is mono (one voice per note) or stereo (two voices per note).

Transpose

This parameter transposes the selected sample. Use it to change the pitch of the selected key.

0 No transposition applied.

-64...+63 Transpose value in semitones.

Tune

Use this parameter to fine-tune the assigned sample.

0 No fine-tuning.

-99...+99 Fine-tuning value in cents (1/100 of a semitone).

Cutoff

This parameter sets the cutoff frequency for the filter applied to the selected sample.

Resonance

This parameter sets the resonance for the filter applied to the selected sample.

Attack

This parameter is an offset to the selected sample's EG Attack.

Decay

This parameter is an offset to the selected sample's EG Decay.

DrumKit: Voice Mixer (Drum Kits)

This page appears when you edit a Drum Kit. Here you can set various parameters for the different percussive sample assigned to the selected key and layer.



See "Key" on page 190.

Voice Assign Mode

Single Trigger

Use this parameter to set the sample as a single-triggered one.

- On When the same key (note) is played repeatedly, the previous note will be stopped before the new note is triggered, so that they will not overlap.
- Off When the same key (note) is played repeatedly, the previous note will not be stopped before the new note is triggered.

Exclusive Group

Exclusive Groups are sets of mutually exclusive keys, stopping each other. For example, if the Open Hi-Hat and Closed Hi-Hat are assigned the same Exclusive Group, playing an Open Hi-Hat will stop the Closed Hi-Hat playing.

None	No Exclusive Group assigned. The selected key
	will not be stopped by any other key.

1...127 Exclusive Groups assigned to the selected key. When you play this key, all other keys assigned to the same Exclusive Group will be stopped, and this key will be stopped by other keys assigned to the same Exclusive Group.

Enable Note On Receive

Use this parameter to enable/disable the reception of the Note On (Key On) message.

eived.
eived.

Off The Note On message is not received. Therefore, the corresponding key is muted.

Enable Note Off Receive

Use this parameter to enable/disable the reception of the Note Off (Key Off) message.

- On The sound will stop as soon as you release the key.
- Off The sound will continue playing up to the end of the sample. The Note Off message is ignored.

Mixer

Pan

This parameter sets the position in the stereo panorama of the selected key.

Send FX1

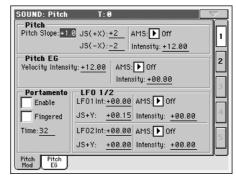
This parameter sets the FX1 send level for of the selected key.

Send FX2

This parameter sets the FX2 send level for of the selected key.

Pitch: Pitch Mod

Here you can make pitch settings for each oscillator. These settings specify how keyboard location will affect the pitch of each oscillator, and select the controllers that will affect the oscillator pitch and specify the depth of control. You can also specify the amount of pitch change produced by the Pitch EG and by LFO1 and LFO2, switch portamento on/off and specify how it will apply.



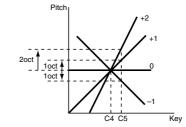
Pitch

Pitch Slope

Normally you will leave this parameter at +1.0. Positive (+) values will cause the pitch to rise as you play higher notes, and negative (-) values will cause the pitch to fall as you play higher notes.

With a value of 0, there will be no change in pitch, and the C4 pitch will sound regardless of the keyboard location you play.

The diagram shows how the Pitch Slope and pitch are related:



-1.0...+2.0 Pitch slope value.

JS (+X)

This parameter specifies how the pitch will change when the joystick is moved all the way to the right. A setting of 12 produces 1 octave of change.

For example if you set this to +12 and move the joystick all the way to the right, the pitch will rise one octave above the original pitch.

-60...+12 Maximum pitch change in semitones.

JS (–X)

This parameter specifies how the pitch will change when the joystick is moved all the way to the left. A setting of 12 produces 1 octave of change.

For example, if you set this to -60 and move the joystick all the way to the left, the pitch will fall five octaves below the original

pitch. This can be used to simulate the downward swoops that a guitarist produces using the tremolo arm.

-60...+12 Maximum pitch change in semitones.

AMS (Alternate Modulation Source)

This parameter selects the source that will modulate the pitch of the selected oscillator. See "AMS (Alternate Modulation Source) list" on page 208.

Intensity

This parameter specifies the depth and direction of the effect produced by "AMS". With a setting of 0, no modulation will be applied. With a setting of 12.00, the pitch will change up to one octave.

For example, if you set "AMS" to After Touch and apply pressure to the keyboard, the pitch will rise if this parameter is set to a positive (+) value, or fall if this parameter is set to a negative (-) value. The range is a maximum of one octave.

-12.00...+12.00

Parameter value.

Pitch EG

The Pitch EG (Envelope Generator) is unique to all oscillators.

Velocity Intensity

This parameter specifies the depth and direction of the modulation that the pitch EG specified on "Pitch: Pitch EG" will apply to the pitch. With a setting of 12.00, the pitch will change a maximum of ± 1 octave.

-12.00...+12.00

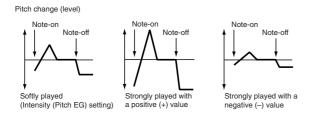
Parameter value.

Pitch EG AMS (Alternate Modulation Source)

This parameter selects the source that will modulate the pitch EG of the selected oscillator. See "AMS (Alternate Modulation Source) list" on page 208).

Pitch EG Intensity

This parameter specifies the depth and direction of the effect that "AMS" will have. For example, if you set "AMS" to Velocity and set this value to +12.00, the velocity will control the range of pitch change produced by the pitch EG in a range of ± 1 octave. As you play more softly, the pitch change will draw closer to the pitch EG levels.



Note: "Intensity" (Pitch EG) and AMS will be added to determine the depth and direction of the pitch modulation applied by the pitch EG.

Portamento

Enabled

This parameter turns the portamento effect (smooth change in pitch from one note to the next) on/off, and specifies how it will be applied.

Note: Portamento will also be switched when CC#65 (Portamento SW) is received.

On Portamento will be appl	ed.
----------------------------	-----

Off Portamento will not be applied.

Fingered

This parameter specifies whether the portamento effect restarts or not with each note played.

On	Portamento will restart with each note.
Off	Portamento will not restart with each note.

Time

This parameter sets the portamento time. Increasing the value will produce a slower change in pitch.

000...127 Portamento time in MIDI value.

Pitch: Pitch EG

Here you can make settings for the pitch EG, which creates timevariant changes in the pitch of the oscillators. The depth of pitch change produced by these EG settings on the oscillators is adjusted by the "Intensity (AMS1/2 Intensity)" parameter (see page 194).

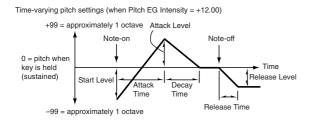
SOUND: Pitch T: 0	
Start:0 Attack:0	Release:0
Level Modulation	Time Modulation
Intensity: <u>0</u> St: <u>0</u> At: <u>0</u> AMS2: Velocity	Intensity: 0 At: 0 Dc: 0
Intensity:0 St:0 At:0 Pitch Pitch EG	5

Diagram

The diagram on top of the page shows the Pitch envelope line.

Level

These parameters specify the amount of pitch change. The actual amount of pitch change will depend on the "Intensity (AMS1/2 Intensity)" parameter (see below). For example, with an "Intensity" setting of +12.00, a "Level" setting of +99 would raise the pitch one octave, and a "Level" setting of -99 would lower the pitch one octave.



Start Level

Specifies the amount of pitch change at note-on.

-99...+99 Parameter value.

Attack Level

Specifies the amount of pitch change when the attack time has elapsed.

-99...+99 Parameter value.

Release Level

Specifies the amount of pitch change when the release time has elapsed.

-99...+99 Parameter value.

Time

These parameters specify the time over which the pitch change will occur.

See diagram above.

Attack Time

Specifies the time over which the pitch will change from note-on until it reaches the pitch specified as the attack level.

0...99 Parameter value.

Decay Time

Specifies the time over which the pitch will change after reaching the attack level until it reaches the normal pitch.

0...99 Parameter value.

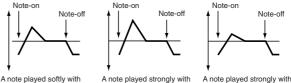
Release Time

Specifies the time over which the pitch will change from note-off until it reaches the pitch specified as the release level.

0...99 Parameter value.

Level Modulation

Pitch EG change (level) (AMS=JS-Y/Velocity, Intensity= positive (+) value



Start Level Swing set to 0,

the Joystick pulled on

Attack Level Swing set to +.

A note played softly with Start Level Swing set at 0, Attack Level Swing set to +, the Joystick pulled on

A note played strongly with Start Level Swing set to 0, Attack Level Swing set to –, the Joystick pulled on

AMS1/2 (Alternate Modulation Source 1/2)

These parameters select the source that will control the pitch EG "Level" parameters ("AMS (Alternate Modulation Source) list" on page 208).

Intensity (AMS1/2 Intensity)

These parameters specify the depth and direction of the effect applied by "AMS1". With a setting of 0, the levels specified by "Level" will be used.

For example if "AMS1" is After Touch, pressing the keys to turn it on will change the "Level" parameters of the Pitch EG. As the absolute value of "Intensity" is increased, the pitch EG levels will change more greatly when the key pressure is released. The direction of the change is specified by "St (Start Level Swing)" and "At (Attack Level Swing)". When the key pressure is released, the pitch EG levels will return to their own settings.

If "AMS1" is set to Velocity, increasing the absolute value of "Intensity" will produce increasingly wider change in pitch EG levels for strongly-played notes. The direction of the change is specified by "St (Start Level Swing)" and "At (Attack Level Swing)". As you play more softly, the pitch change will draw closer to the pitch EG levels.

-99...+99 Parameter value.

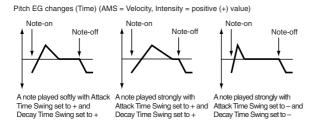
St (Start Level Swing)

This parameter specifies the direction of change in "Start Level" caused by "AMS1/2". If "Intensity" is a positive (+) value, a setting of + will raise the EG level, and a setting of - will decrease it. With a setting of 0 there will be no change.

At (Attack Level Swing)

This parameter specifies the direction of change in "Attack Level" caused by "AMS1/2". If "Intensity" is a positive (+) value, a setting of + will raise the EG level, and a setting of - will decrease it. With a setting of 0 there will be no change.

Time Modulation



AMS (Alternate Modulation Source)

This parameter selects the source that will control the "Time" parameters of the pitch EG (see "AMS (Alternate Modulation Source) list" on page 208).

Intensity (AMS Intensity)

This parameter specifies the depth and direction of the effect that "AMS" will have on the "Time" parameters. With a setting of 0, the pitch EG times will be just as specified by the "Time" settings.

The alternate modulation value at the moment that the EG reaches each point will determine the actual value of the EG time that comes next.

For example, the decay time will be determined by the alternate modulation value at the moment that the attack level is reached.

When this parameter is set to values of 16, 33, 49, 66, 82, or 99, the specified EG times will speed up as much as 2, 4, 8, 16, 32, or 64 times respectively (or slowed down to 1/2, 1/4, 1/8, 1/16, 1/32, or 1/64 of the original time).

For example if "AMS" is set to Velocity, increasing the absolute value of "Intensity" will allow strongly-played notes to increase the changes in pitch EG "Time" values. The direction of the change is specified by "At (Attack Time Swing)" and "Dc (Decay Time Swing)". As you play more softly, the pitch EG times will more closely approach the actual settings of the pitch EG.

-99...+99 Parameter value.

At (Attack Time Swing)

This parameter specifies the direction in which "AMS" will affect the "Attack Time" parameter. With positive (+) values of "Intensity", a setting of + will cause the time to be lengthened, and a setting of – will cause the time to be shortened. With a setting of 0 there will be no change.

Dc (Decay Time Swing)

Specify the direction in which "AMS" will affect the "Decay Time". With positive (+) values of "Intensity", a setting of + will cause the time to be lengthened, and a setting of - will cause the time to be shortened. With a setting of 0 there will be no change.

Filter: Filter Type

Here you can make settings for the filters that will be used by the oscillators. You can select either a 24 dB/octave low pass filter with resonance, or a series connection of a 12 dB/octave low pass filter and a 12 dB/octave high pass filter.

GOUND: Filter T: 0	∇
Filter Type	IIC
Low Pass Resonance	1
C Low Pass & High Pass	
	2
Trim: 99	
	з
Filter A	
Frequency: 5 Res.Mod. by AMS: 🕨 Off	4
Resonance: 0 Intensity: 0	
Filter B	
	5

Filter Type

This parameter selects the type of filter (Low Pass Resonant, Low Pass & High Pass) for the selected oscillator.

Low Pass Resonance

When the Low Pass filter type is selected, only filter A will be activated.



Low Pass & High Pass

When the Low Pass & High Pass filter type is selected, the filter B will be activated.



Trim

Use this parameter to adjust the level at which the audio signal output from the selected oscillator is input to filter A.

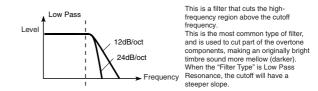
Note: If this value is raised, the sound may distort if Resonance is set to a high value or when you play a chord.

00...99 Trim level.

Filter A

Frequency (Cutoff Frequency A)

This parameter specifies the cutoff frequency of filter A.



00...99 Cutoff frequency value.

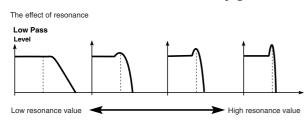
Resonance (Resonance A)

The resonance emphasizes the overtone components that lie in the region of the cutoff frequency specified by "Frequency", producing a more distinctive sound. Increasing this value will produce a stronger effect.

00...99 Resonance value.

Res. Mod. by AMS (Resonance modulated by AMS)

Selects the source that will control the "Resonance" level. See "AMS (Alternate Modulation Source) list" on page 208.



Intensity (AMS Intensity)

This parameter specifies the depth and direction of the effect that "Res. Mod. by AMS (Resonance modulated by AMS)" will have on the resonance level specified by "Resonance (Resonance A)".

For example if Velocity has been selected, changes in keyboard velocity will affect the resonance.

With positive (+) values, the resonance will increase as you play more strongly, and as you play more softly the resonance will approach the level specified by the "Resonance" setting.

With negative (-) values, the resonance will decrease as you play more strongly, and as you play more softly the resonance will approach the level specified by the "Resonance" setting.

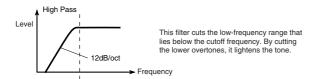
The resonance level is determined by adding the "Resonance" and "Intensity (AMS Intensity)" values.

```
-99...+99 Parameter value.
```

Filter B

Frequency (Cutoff Frequency B)

This parameter specifies the cutoff frequency of filter B. This parameter will be displayed when "Filter Type" is set to Low Pass & High Pass.



00...99 Cutoff frequency value.

Filter: Filter Mod

These settings let you apply modulation to the cutoff frequency ("Frequency") of the filter for the selected oscillator to modify the tone.

SOUND: Filter T:	0
Keyboard Track Key Low: B3 Key High	: F5 Intensity to A: +36
Ramp Low: <u>+48</u> Ramp Hig	gh: <u>-99</u> Intensity to B: 0
Filter EG Velocity to A:+55 Int to A	: <u>+31</u> AMS: Dff 2
Velocity to B:0 Int to B	:0 Int to A:0 Int to B:0
Filter A Modulation - AMS1: Off	AMS2: D Off
Intensity: <u>0</u>	Intensity: 0 4
Filter B Modulation - AMS1: Joystick X	AMS2: Channel AT
Intensity: <u>0</u>	Intensity: 0
	lter EG

When "Filter Type" is Low Pass Resonance, parameters for filter B will not be editable (greyed out).

Keyboard Tracking

Key Low/High

These settings specify keyboard tracking for the cutoff frequency of the filter for the selected oscillator. The way in which the cutoff frequency is affected by the keyboard location you play can be specified by the "Key Low", "Key High", "Ramp Low" and "Ramp High" parameters.

Keyboard tracking will apply to the range below the specified Low note number, and above the specified High note number.

C–1...G9 Lowest/Highest note in the range.

Ramp Low/High

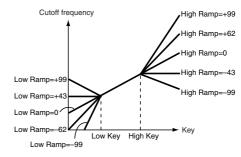
These parameter specifies the angle of keyboard tracking.

If "Intensity to A" and "Intensity to B" are set to +50, "Ramp Low" is set to -62 and "Ramp High" is set to +62, the angle of the change in cutoff frequency will correspond to the keyboard location (pitch). This means that the oscillation that occurs when you increase the "Resonance (Resonance A)" will correspond to the keyboard location.

If you set "Ramp Low" to +43 and "Ramp High" to -43, the cutoff frequency will not be affected by keyboard location. Use this setting when you do not want the cutoff frequency to change for each note.

-99...+99 Angle value.

Here is how cutoff frequency is affected by keyboard location and the Ramp setting ("Intensity to A" and "Intensity to B" = +50):



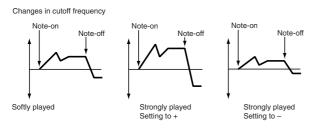
Tracking to A/B

These parameters specify the note numbers at which keyboard tracking will begin to apply, and set the "Intensity to A" and "Intensity to B" parameters to specify the depth and direction of the change applied to filters A and B.

For the range of notes between "Key Low" and "Key High", the cutoff frequency will change according to the keyboard location (pitch).

-99...+99 Parameter value.

Filter EG



Velocity to A

This parameter specifies the depth and direction of the effect that velocity will have on the time-varying changes created by the filter EG (as set on "Filter: Filter EG") to control the filter A cutoff frequency.

With positive (+) values, playing more strongly will cause the filter EG to produce greater changes in cutoff frequency. With negative (-) values, playing more strongly will also cause the filter EG to produce greater changes in cutoff frequency, but with the polarity of the EG inverted.

99...+99 Value of the Velocity to A parameter.

Velocity to B

This parameter specifies the depth and direction of the effect that velocity will have on the time-varying changes created by the filter EG to control the filter B cutoff frequency (see "Velocity to A").

99...+99 Value of the Velocity to B parameter.

Int to A (Intensity to A)

Specifies the depth and direction of the effect that the time-varying changes created by the filter 1 EG will have on the filter A cutoff frequency.

With positive (+) settings, the sound will become brighter when the EG levels set by Filter EG "Level" and "Time" parameters are in the "+" area, and darker when they are in the "-" area.

With negative (–) settings, the sound will become darker when the EG levels set by Filter EG "Level" and "Time" parameters are in the "+" area, and brighter when they are in the "–" area.

-99...+99 Parameter value.

Int to B (Intensity to B)

Specifies the depth and direction of the effect that the time-varying changes created by the filter EG will have on the filter B cutoff frequency (see "Int to A (Intensity to A)").

-99...+99 Parameter value.

AMS (EG Alternate Modulation Source)

Selects the source that will control the depth and direction of the effect that the time-varying changes produced by the filter EG will have on the cutoff frequency of filters A and B. See "AMS (Alternate Modulation Source) list" on page 208.

Int to A (Intensity to A)

Specifies the depth and direction of the effect that "AMS" will have on filter A. For details on how this will apply, refer to "Int to A (Intensity to A)".

Int to B (Intensity to B)

Specifies the depth and direction of the effect that "AMS" will have on filter B. For details on how this will apply, refer to "Int to A (Intensity to A)".

Note: The sum of the settings for "Velocity to A/B", "Intensity to A/B", and "(AMS) Intensity to A/B" will determine the depth and direction of the effect produced by the filter EG.

Filter A/B Modulation

AMS1 (Alternate Modulation Source 1 for filter A/B)

Selects the source that will control modulation of the filter A cutoff frequency. See "AMS (Alternate Modulation Source) list" on page 208.

Note: The filter B parameters will be displayed when "Filter Type" on page 195 is Low Pass & High Pass.

Intensity (Intensity to AMS1)

Specifies the depth and direction of the effect that "AMS1" will have.

When "AMS1" is JS X, a positive (+) value for this parameter will cause the cutoff frequency to rise when the joystick is moved toward the right, and fall when the joystick is moved toward the left. With a negative (-) value for this parameter, the opposite will occur.

This value is added to the setting of the Filter A "Frequency".

AMS2 (Alternate Modulation Source 2 for filter A/B)

Selects the source that will control modulation of the filter A cutoff frequency (see "AMS (Alternate Modulation Source) list" on page 208).

Intensity (Intensity to AMS2)

Specifies the depth and direction of the effect that the selected source will have (see "Intensity (Intensity to AMS1)" on page 197).

Filter: Filter LFO

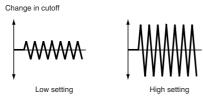
Here you can use the filter LFO to apply cyclic modulation to the cutoff frequency of the filter (for the selected oscillator) to create cyclical changes in tone.

SOUND: Filter	T: 0			∇
LFO 1 Intensity to A:	0	AMS: 🕨 Off		
Intensity to B:		Intensity to A:	0	
JS-Y Intensity to A:	0			2
JS-Y Intensity to B:				H
_LF0 2		_		3
Intensity to A:	0	AMS: 🕨 Off		Б
Intensity to B:		Intensity to A:	0	4
JS-Y Intensity to A:	0			Б
JS-Y Intensity to B:				5
Filter Filter Filter Type Mod LFO Mod E6				

LFO 1

Intensity to A

Specifies the depth and direction of the modulation that LFO1 (set on "LFO: LFO1") will have on the cutoff frequency of filter A. Negative (–) settings will invert the phase.



-99...+99 Parameter value.

Intensity to B

Specify the depth and direction of the modulation that LFO1 will have on the cutoff frequency of filter B (see "Intensity to A").

-99...+99 Parameter value.

JS (Joystick) –Y Intensity to A

By moving the joystick in the Y direction (toward yourself), you can control the depth at which LFO1 modulates the cutoff frequency of filter A. This parameter specifies the depth and direction of the control.

Higher settings of this parameter will produce greater increases in the effect of LFO1 on the filter when the joystick is moved toward yourself.

-99...+99 Parameter value.

JS (Joystick) –Y Intensity to B

By moving the joystick in the Y direction (toward yourself), you can control the depth at which LFO1 modulates the cutoff frequency of filter B. This parameter specifies the depth and direction of the control (see "JS (Joystick) –Y Intensity to A").

AMS (Filter LFO1 Alternate Modulation Source)

Select a source that will control the depth and direction of cutoff frequency change for both filters A and B. See "AMS (Alternate Modulation Source) list".

Intensity to A

Specifies the depth and direction of the effect that "AMS" will have on filter A.

For example if "AMS" is After Touch, higher settings of this parameter will allow greater change to be applied to LFO1 when you apply pressure to the keyboard.

-99...+99 Parameter value.

Intensity to B

Specifies the depth and direction of the effect that "AMS" will have on filter B (see "Intensity to A").

LFO 2

Adjusts the depth of the cyclic modulation applied by LFO2 (set on "LFO: LFO2") to the cutoff frequency of filters A and B. For more information on the parameters see "LFO 1" above.

Filter: Filter EG

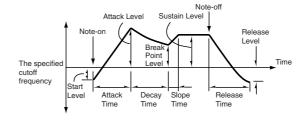
Here you can make settings for the EG that will produce timevarying changes in the cutoff frequency of filters A and B for the selected oscillator. The depth of the effect that these settings will have on the filter cutoff frequency is determined by the "Velocity" and "Intensity" parameters.

SOUND: Filter T	:0
J	
Start:+99 Attack:+95 Bre	ak:+47 Sustain:+18 Release:+53 2
Attack: <u>73</u> Decay: <u>98</u> Slo	Time pe: 99 Release: 88
_Level_Modulation	Time Modulation 3
AMS: 🕨 Velocity	AMS1: FitKTrk+/+
Intensity: <u>+5</u>	Int:+49 At:0 Dc:+ S1:+ R1:- 4
St: <u>0</u> At: <u>0</u> Br: <u>+</u>	AMS2: 🕨 Velocity
	Int:-22 At:+ Dc:+ S1:0 R1:0
	ilter EG

Diagram

The diagram on top of the page shows the Filter envelope line.

Filter envelope



Level

These are the envelope segment levels. The result will depend on the filter that was selected in "Filter Type". For example, with the Low Pass Resonance filter, positive (+) values of EG Intensity will cause the tone to be brightened by positive (+) levels, and darkened by negative (-) levels.

Start

This parameter specifies the change in cutoff frequency at the time of note-on.

-99...+99 Level value.

Attack

This parameter specifies the change in cutoff frequency after the attack time has elapsed.

-99...+99 Level value.

Break (Break Point)

This parameter specifies the change in cutoff frequency after the decay time has elapsed.

-99...+99 Level value.

Sustain

This parameter specifies the change in cutoff frequency that will be maintained from after the slope time has elapsed until noteoff occurs.

-99...+99 Level value.

Release

This parameter specifies the change in cutoff frequency that will occur when the release time has elapsed.

-99...+99 Level value.

Time

These parameters specify the time over which the filter change will occur.

Attack

This parameter specifies the time over which the level will change from note-on until the attack level is reached.

0...99 Time value.

Decay

This parameter specifies the time over which the level will change from the attack level to the break point level.

0...99 Time value.

Slope

This parameter specifies the time over which the level will change after the decay time has elapsed until the sustain level is reached.

0...99 Time value.

Release

This parameter specifies the time over which the level will change after note-on occurs until the release level is reached.

0...99 Time value.

Level Modulation

Filter 1 EG changes (level) (AMS = Velocity, Intensity = a positive (+) value)



AMS (Alternate Modulation Source)

This parameter selects the source that will control the "Level" parameters of the filter EG ("AMS (Alternate Modulation Source) list" on page 208).

Intensity (AMS Intensity)

This parameter specifies the depth and direction of the effect applied by "AMS". With a setting of 0, the levels specified by "Frequency (Cutoff Frequency A)" will be used.

For example, if "AMS" is Velocity, and you set "St (Start Level Swing)", "At (Attack Level Swing)" and "Br (Break Level Swing)" to + and set "Intensity" to a positive (+) value, the EG levels will rise as you play more strongly. If "Intensity" is set to a negative (-) values, the EG levels will fall as you play more strongly.

-99...+99 Intensity value.

St (Start Level Swing)

This parameter specifies the direction in which "AMS" will affect "Start". When "Intensity" has a positive (+) value, a setting of +for this parameter will allow "AMS" to raise the EG level, and a setting of - will allow "AMS" to lower the EG level. With a setting of 0 there will be no change.

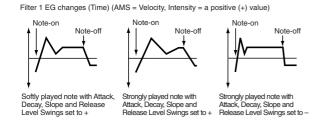
At (Attack Level Swing)

This parameter specifies the direction in which "AMS" will affect "Attack". When "Intensity" has a positive (+) value, a setting of +for this parameter will allow "AMS" to raise the EG level, and a setting of - will allow "AMS" to lower the EG level. With a setting of 0 there will be no change.

Br (Break Level Swing)

This parameter specifies the direction in which "AMS" will affect "Break (Break Point)". When "Intensity" has a positive (+)value, a setting of + for this parameter will allow "AMS" to raise the EG level, and a setting of – will allow "AMS" to lower the EG level. With a setting of 0 there will be no change.

Time Modulation



AMS1/2

Use this parameter to select the source that will control the "Time" parameters of the filter EG. See "AMS (Alternate Modulation Source) list" on page 208.

Int (AMS Intensity)

This parameter specifies the depth and direction of the effect that "AMS1/2" will have.

For example, if "AMS1/2" is set to FltKTr +/+, the EG "Time" parameters will be controlled by the Keyboard Tracking settings. With positive (+) values of this parameter, positive (+) values of "Ramp Low/High" will lengthen the EG times, and negative (-) values of "Ramp Low/High" will shorten the EG times. The direction of change is specified by "At (Attack Time Swing)", "Dc (Decay Time Swing)", "Sl (Slope Time Swing)", and "Rl (Release Time Swing)".

With a setting of 0, the times specified by "Frequency (Cutoff Frequency A)" will be used.

If "AMS1/2" is set to Velocity, positive (+) values of this parameter will cause EG times to lengthen as you play more strongly, and negative (-) values will cause EG times to shorten as you play more strongly.

-99...+99 Intensity value.

At (Attack Time Swing)

This parameter specifies the direction in which "AMS1/2" will affect the attack time. With positive (+) values of "Intensity", setting this parameter to + will allow AMS to lengthen the time, and setting this parameter to - will allow AMS to shorten the time. With a setting of 0 there will be no change.

Dc (Decay Time Swing)

This parameter specifies the direction in which "AMS1/2" will affect the decay time. With positive (+) values of "Intensity", setting this parameter to + will allow AMS to lengthen the time, and setting this parameter to - will allow AMS to shorten the time. With a setting of 0 there will be no change.

SI (Slope Time Swing)

This parameter specifies the direction in which "AMS1/2" will affect the slope time. With positive (+) values of "Intensity", setting this parameter to + will allow AMS to lengthen the time, and setting this parameter to - will allow AMS to shorten the time. With a setting of 0 there will be no change.

RI (Release Time Swing)

This parameter specifies the direction in which "AMS1/2" will affect the release time. With positive (+) values of "Intensity", setting this parameter to + will allow AMS to lengthen the time,

and setting this parameter to – will allow AMS to shorten the time. With a setting of 0 there will be no change.

Amp: Amp Level/Pan

These parameters control the volume and pan of the selected oscillator.

SOUND: Amp T: 0	
Amp Level Amp Level: 120	1
Pan AMS: Note Number Pan: L-63 Intensity: +13	2
	4
Amp Lvi/Pan Mod E6	5

Amp Level

Volume of the selected oscillator.

Note: The volume of a Sound can be controlled by CC#7 (volume) and #11 (expression). The resulting level is determined by multiplying the values of CC#7 and #11. The Global MIDI channel is used for control.

0...127 Volume level.

Pan

Pan (stereo position) of the selected oscillator.

- This parameter is not available when editing a Drum Kit. Use the individual Pan control for each key (see "Pan" on page 192).
- Random The sound will be heard from a different location at each note-on.
- L001 Places the sound at far left.
- C064 Places the sound in the center.
- R127 Places the sound to far right.

Note: This can be controlled by CC#10 (panpot). A CC#10 value of 0 or 1 will place the sound at the far left, a value of 64 will place the sound at the location specified by the "Pan" setting for each oscillator, and a value of 127 will place the sound at the far right. This is controlled on the global MIDI channel.

Pan modulation

AMS (Alternate Modulation Source)

Selects the source that will modify pan (see "AMS (Alternate Modulation Source) list" on page 208). This change will be relative to the "Pan" setting.

Intensity

Specifies the depth of the effect produced by "AMS". For example, if "Pan" is set to C064 and "AMS" is Note Number, positive (+) values of this parameter will cause the sound to move toward the right as the note numbers increase beyond the C4 note (i.e.,

as you play higher), and toward the left as the note numbers decrease (i.e., as you play lower). Negative (-) values of this parameter will have the opposite effect.

-99...+99 Parameter value.

Amp: Amp Mod

These settings allow you to apply modulation to amp (for each oscillator) to modulate the volume.

SOUND: Amp	Т: 0
- Keyboard Trac Key Low: CB	Key High: <u>A#4</u>
Ramp Low: +8	Ramp High: 0
Amp Modulatio Velocity Intensity:	
LFO 1/2 LFO1 Intensity:	0AMS:▶ 0ff 4
LFO2 Intensity:	0AMS:▶ Off Intensity: 0
Amp Amp A Lvl/Pan Mod I	Imp EG

Keyboard Tracking

These parameters let you use keyboard tracking to adjust the volume of the selected oscillator. Use the "Key" and "Ramp" parameters to specify how the volume will be affected by the keyboard location that you play.

Key Low/High

These settings specify the note number at which keyboard tracking will begin to apply. The volume will not change between "Key Low" and "Key High".

Keyboard tracking will apply to the range below the specified Low note number, and above the specified Highy note number.

C–1...G9 Lowest/Highest note in the range.

Ramp Low/High

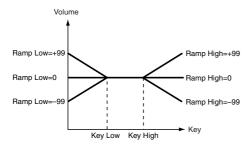
These parameters specify the angle of keyboard tracking.

With positive (+) values of the "Ramp Low" parameter, the volume will increase as you play notes below the "Key Low" note number. With negative (-) values, the volume will decrease.

With positive (+) values of the "Ramp High" parameter, the volume will increase as you play notes above the "Key High" note number. With negative (-) values, the volume will decrease.

-99...+99 Angle value.

Here is an example of volume changes produced by keyboard location and "Ramp" settings:

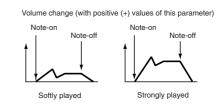


Amp Modulation

These parameters specify how the volume of the selected oscillator will be affected by velocity.

Velocity Intensity

With positive (+) values, the volume will increase as you play more strongly. With negative (-) values, the volume will decrease as you play more strongly.



-99...+99 Intensity value.

AMS (Alternate Modulation Source)

Selects the source that will control the volume of the amp for the selected oscillator (See "AMS (Alternate Modulation Source) list" on page 208). "Velocity" cannot be selected.

Intensity

This parameter specifies the depth and direction of the effect that "AMS" will have. The actual volume will be determined by multiplying the value of the changes produced by the amp EG with the values of Alternate Modulation etc., and if the levels of the amp EG are low, the modulation applied by Alternate Modulation will also be less.

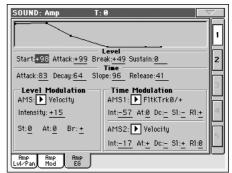
For example, if "AMS" is set to After Touch, positive (+) values of this parameter will cause the volume to increase when pressure is applied to the keyboard. However if the EG settings etc. have already raised the volume to its maximum level, the volume cannot be increased further.

With negative (-) values of this parameter, the volume will decrease when pressure is applied to the keyboard.

-99...+99 Intensity value.

Amp: Amp EG

These parameters let you create time-varying changes in the volume of the selected oscillator.

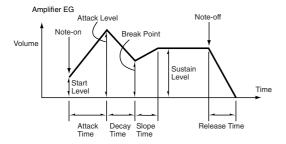


Diagram

The diagram on top of the page shows the Amplitude envelope line.

Level

These parameters are the level of the envelope segment.



Start

This parameter specifies the volume level at note-on. If you want the note to begin at a loud level, set this to a high value.

```
0...99 Level value.
```

Attack

This parameter specifies the volume level that will be reached after the attack time has elapsed.

0...99 Level value.

Break

This parameter specifies the volume level that will be reached after the decay time has elapsed.

```
0...99 Level value.
```

Sustain

This parameter specifies the volume level that will be maintained from after the slope time has elapsed until note-off occurs.

0...99 Level value.

Time

These parameters specify the time over which the volume change will occur.

Attack

This parameter specifies the time over which the volume will change after note-on until it reaches the attack level. If the start level is 0, this will be the rise time of the sound.

0...99 Time value.

Decay

This parameter specifies the time over which the volume will change from when it reaches the attack level until it reaches the break point level.

0...99 Time value.

Slope

This parameter specifies the time over which the volume will change from when it reaches the break point level until it reaches the sustain level.

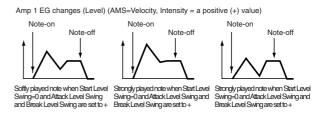
0...99 Time value.

Release

This parameter specifies the time over which the volume will change after note-off until it reaches 0.

0...99 Time value.

Level Modulation



AMS (Alternate Modulation Source)

This parameter specifies the source that will control the "Level" parameters of the amp EG. See "AMS (Alternate Modulation Source) list" on page 208.

Intensity

This parameter specifies the depth and direction of the effect that "AMS" will have. For example, if "AMS" is Velocity, setting "St (Start Level Swing)", "At (Attack Level Swing)" and "Br (Break Point Level Swing)" to + and setting "Intensity" to a positive (+) value will cause the amp EG volume levels to increase as you play more strongly. Setting "Intensity" to a negative (-) values will cause the amp EG volume levels to decrease as you play more strongly. With a setting of 0, the levels will be as specified on "Amp: Amp EG".

-99...+99 Intensity value.

St (Start Level Swing)

This parameter specifies the direction in which "AMS" will change "Start". If "Intensity" is set to a positive (+) value, setting this parameter to + will allow AMS to increase the EG level, and setting this parameter to - will allow AMS to decrease the EG level. With a setting of 0, no change will occur.

At (Attack Level Swing)

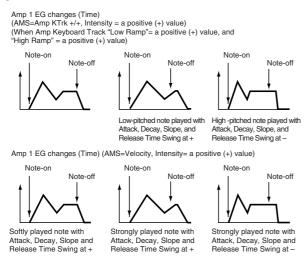
This parameter specifies the direction in which "AMS" will change "Attack". If "Intensity" is set to a positive (+) value, setting this parameter to + will allow AMS to increase the EG level, and setting this parameter to - will allow AMS to decrease the EG level. With a setting of 0, no change will occur.

Br (Break Point Level Swing)

This parameter specifies the direction in which "AMS" will change "Break". If "Intensity" is set to a positive (+) value, setting this parameter to + will allow AMS to increase the EG level, and setting this parameter to - will allow AMS to decrease the EG level. With a setting of 0, no change will occur.

Time Modulation

These parameters let you use an alternate modulation source to modify the amp EG times that were specified in "Time" on page 202.



AMS1 (Alternate Modulation Source 1 - Time)

This parameter specifies the source that will control the "Time" parameters of the amp EG (see "AMS (Alternate Modulation Source) list" on page 208). With a setting of Off, there will be no modulation.

Intensity

This parameter specifies the depth and direction of the effect that "AMS1" will have. For example, if "AMS1(T)" is Amp KTrk +/+, the (Amp) Keyboard Track settings (see "Keyboard Tracking" on page 201) will control the EG "Time" parameters. With positive (+) values of this parameter, positive (+) values of "Ramp (Ramp Setting) will cause EG times to be lengthened, and negative (-) values of "Ramp (Ramp Setting)" will cause EG times to be shortened. The direction of the change is specified by "At (Attack Time Swing)", "Dc (Decay Time Swing)", "Sl (Slope Time Swing)", and "Rl (Release Time)".

When "AMS1(T)" is Velocity, positive (+) values will cause EG times to lengthen as you play more strongly, and negative (-) values will cause EG times to shorten as you play more strongly. With a setting of 0, the EG times will be as specified by the "Level" parameters (see page 202).

At (Attack Time Swing)

This parameter specifies the direction of the effect that "AMS1" will have on "Attack". With positive (+) values of "Intensity", setting this parameter to + will allow AMS1 to lengthen the time, and setting it to - will allow AMS1 to shorten the time. With a setting of 0 there will be no effect.

Dc (Decay Time Swing)

This parameter specifies the direction of the effect that "AMS1" will have on "Decay". With positive (+) values of "Intensity", setting this parameter to + will allow AMS1 to lengthen the time, and setting it to - will allow AMS1 to shorten the time. With a setting of 0 there will be no effect.

SI (Slope Time Swing)

This parameter specifies the direction of the effect that "AMS1" will have on "Slope". With positive (+) values of "Intensity", set-

ting this parameter to + will allow AMS1 to lengthen the time, and setting it to - will allow AMS1 to shorten the time. With a setting of 0 there will be no effect.

RI (Release Time)

This parameter specifies the direction of the effect that "AMS1" will have on "Release". With positive (+) values of "Intensity", setting this parameter to + will allow AMS1 to lengthen the time, and setting it to - will allow AMS1 to shorten the time. With a setting of 0 there will be no effect.

AMS2 (Alternate Modulation Source 2)

This is another alternate modulation source for the Amp EG. See above "AMS1" parameters.

LFO: LFO1

In this and the next page you can make settings for the LFO that can be used to cyclically modulate the Pitch, Filter, and Amp of each oscillator. There are two LFO units for each oscillator. By setting the LFO1 or LFO2 Intensity to a negative (–) value for Pitch, Filter, or Amp, you can invert the LFO waveform.

SOUND: LFO T: 0	7
_LF01	
Waveform: 🕨 Triangle 0	1
Frequency: <u>65</u> Offset: 0	
Key Sync. Fade: <u>9</u> Delay: <u>0</u>	2
Frequency Modulation	3
AMS1: Doff AMS2: Doff	_
Intensity: 0 Intensity: 0	4
Frequency MIDI /Tempo Sync.	
MIDI/Tempo Sync. Base Note: 🕨 🖇	5
Times: 1	2
LF0 1 LF0 2	-

Waveform

This parameter selects the LFO waveform. The numbers that appear at the right of some of the LFO waveforms indicate the phase at which the waveform will begin.

Triangle 0	\sim	Step Triangle — 4
Triangle 90	Triangle wave	Step Triangle — 6
Triangle Random	Phase will change randomly at each key-in	Step Saw – 4
Saw 0	Sawtooth down↓	Step Saw — 6
Saw 180		Random1 (S/H): Conventional sample & hold (S/H) in which the
Square		level changes randomly at fixed intervals of time
Sine		Random2 (S/H): Both the levels and the time intervals will change randomly.
Guitar	Guitar vibrato	Random3 (S/H): The maximum level and minimum level will
Exponential Triangle	大	alternate at random intervals of time (i.e., a square wave with random period).
Exponential Saw Down	\leftarrow	Random4 (Vector) Random5 (Vector)
Exponential Saw Up	<u></u>	Random6 (Vector) These types cause Random 1—3 to change smoothly. They can be used to simulate the instability of acoustic instruments etc.
		Instability of acoustic instruments etc.

Frequency

Set the LFO frequency. A setting of 99 is the fastest.

00...99 Frequency rate.

Offset

This parameter specifies the central value of the LFO waveform. For example, with a setting of 0 as shown in the following diagram, the vibrato that is applied will be centered on the note-on pitch. With a setting of +99, the vibrato will only raise the pitch above the note-on pitch, in the way in which vibrato is applied on a guitar.

When "Waveform" is set to Guitar, the modulation will occur only in the positive (+) direction even if you set "Offset" to 0.

Here are offset settings and pitch change produced by vibrato:



-99...+99 Offset value.

Key Sync

This parameter specifies if the LFO is synchronized to key strokes.

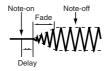
On	The LFO will start each time you play a note, and
	an independent LFO will operate for each note.

Off The LFO effect that was started by the first-played note will continue to be applied to each newlyplayed note. (In this case, Delay and Fade will be applied only to the LFO when it is first started).

Fade

This parameter specifies the time from when the LFO begins to apply until it reaches the maximum amplitude. When "Key Sync." is Off, the fade will apply only when the LFO is first started.

Here is how "Fade" affects the LFO (when "Key Sync" is On):



00...99 Fade rate.

Delay

This parameter specifies the time from note-on until the LFO effect begins to apply. When "Key Sync" is Off, the delay will apply only when the LFO is first started.

0...99 Delay time.

Frequency Modulation

You can use two alternate modulation sources to adjust the speed of the LFO1 for the selected oscillator.

AMS1 (Alternate Modulation Source1)

Selects the source that will adjust the frequency of the selected oscillator LFO1 (see "AMS (Alternate Modulation Source) list" on page 208). LFO1 can be modulated by LFO2.

Intensity (AMS1 Intensity)

This parameter specifies the depth and direction of the effect that "AMS1(F)" will have. When this parameter is set to a value of 16, 33, 49, 66, 82, or 99, the LFO frequency being can be increased by a maximum of 2, 4, 8, 16, 32, or 64 times respectively (or decreased by 1/2, 1/4, 1/8, 1/16, 1/32, or 1/64 respectively).

For example, if "AMS1(F)" is Note Number, positive (+) values of this parameter will cause the oscillator LFO to speed up as you play higher notes. Negative (-) values will cause the oscillator LFO to slow down as you play higher notes. This change will be centered on the C4 note.

If "AMS1(F)" is set to JS +Y, raising the value of this parameter will cause the oscillator LFO1 speed to increase as the joystick is moved away from yourself. With a setting of +99, moving the joystick all the way away from yourself will increase the LFO speed by approximately 64 times.

-99...+99 Intensity value.

AMS2 (Alternate Modulation Source2) Intensity (AMS2 Intensity)

Make settings for a second alternate modulation source that will adjust the frequency of the oscillator LFO1 (see above "AMS1 (Alternate Modulation Source1)" and "Intensity (AMS1 Intensity)").

Frequency MIDI/Tempo Sync

MIDI/Tempo Sync

This parameter enables/disables the LFO synchronization with Sequencer 1 Tempo.

On The LFO frequency will synchronize to the tempo (MIDI Clock) of Sequencer 1. In this case, the values you specified for "Frequency" (see page 203) and "Frequency Modulation" (see page 204) will be ignored.

Base Note

When "MIDI/Tempo Sync" is On, these parameters set a note length relative to " \downarrow (Tempo)" and the multiple ("Times") that will be applied to it. These parameters will determine the frequency of the LFO1. For example if "Base Note" is \downarrow (quarter note) and "Times" is 04, the LFO will perform one cycle every four beats.

Even if you change the " (Tempo)" setting of Sequencer 1, the LFO will always perform one cycle every four beats.

DRUM This parameter is not available when editing a Drum Kit.

$$\$, \$_3, \$, \downarrow_3, \downarrow_3, \downarrow_3, \downarrow, \circ$$

Note value.

Times

DRUM This parameter is not available when editing a Drum Kit.

1...16 Beats before restarting the cycle.

LFO: LFO2

Here you can make settings for the LFO2, which is the second LFO that can be applied to the selected oscillator. See "LFO: LFO1" for more information on the parameters value.

However in "Frequency Modulation", the LFO cannot be selected as a modulation source in "AMS1" or "AMS2."

Effects: FX Select

Here you can select two effects for the whole Sound, switch them on/off, and specify chaining.

SOUND: Effects T: 0	$\overline{\nabla}$
Send 1: 56 FX 1 ▶ 53: Reverb Smooth Hall Vet / Dry: 20: 80	Mono
Send 2: 0 FX 2 16: Chorus Vet/Dry: 28:80 0	
Send To Master	

Note: For details on the effects, refer to the "Effects" chapter.

FX 1/2 Group

Send

Send level for each effect.

Drum Samples have their own send level settings (see "Send FX1" and "Send FX2" on page 192). Use this parameter to adjust the general offset of the Drum Kit.

000...127 Effect level.

FX1/2

Use these parameters to select the effect type for effect 1/2. See the "Effects" chapter for more information.

Note: If 000: No Effect is selected, the output from the master effect will be muted.

Wet/Dry

Mix between the effected (Wet) and direct (uneffected, Dry) signal.

Dry	Direct signal only.
Wet	Effected signal only.
nn:nn	Percentage of Wet/Dry signal.

2>1

Use this parameter to send the output of effect 2 to the input of effect 1.

000...127 Level of the signal exiting the effect 2 going back to the effect 1.

Send to Master

This parameters allows you to decide if the direct + effected signal must go to the Master, or just the effected signal.

- On Only the effected signal will be sent to the Audio Outputs. The direct (non-effected) signal will not be sent.
- Off Both the effected signal and direct signals will be sent to the Audio Outputs.

Effects: FX1

In this page you can edit the effected assigned to the FX1 (A or C) effect processor (usually reverb). See the "Effects" chapter for more information.

Effects: FX2

In this page you can edit the effected assigned to the FX2 (B or D) effect processor (usually modulating effect). See the "Effects" chapter for more information.

Page menu

Press the page menu icon to open the menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.

Write Sound
Solo Oscillator
Swap LFO
Copy Oscillator
Copy FX
Copy Drum Kit
Init. Sound
Compare

Write Sound

Select this command to open the Write Sound dialog box, and save all editing parameters to a Sound.

See "Write Sound dialog box" on page 206 for more information.

Solo Oscillator

Select this command to solo the selected oscillator, and mute the other oscillators. Select it again to unmute the other oscillators.

When this function is activated, the "Solo OSC [n]" indicator (n = oscillator number) blinks on the page header. While in this situation, you can select a different oscillator to be soloed.

Swap LFO

Select tis command to replace LFO1 with LFO2, and vice-versa.

Copy Oscillator

Select this command to copy all settings between oscillators.

See "Copy Oscillator dialog box" on page 206 for more information.

Copy FX

Select this command to copy all FX settings from another Sound.

See "Copy FX dialog box" on page 207 for more information.

Copy Drum Kit

Select this command to copy the Drum Kit from a different Drum Kit.

See "Copy Drum Kit dialog box" on page 207 for more information.

Init Sound

Select this command to delete all parameters, and set them to a default value.

Compare

When this command is checked, original Sound parameter values are temporarily recalled, to compare them with edited parameters. You cannot edit the Sound while you are in Compare mode.

While this function is on, the Compare indicator blinks on the page header.

Write Sound dialog box

Open this window by selecting the Write Sound item from the page menu. Here, you can save all Sound parameters to a Sound location in memory.

Warning: If you write over an existing User Sound, the Sound will be deleted and replaced by the one you are saving ("overwrite"). Please save on disk any User Sound you don't want to lose.

Note: You can't save over a Factory Sound location.

	₩rite Sou	nd
Name:	T Grand Piano	*
	To	
Sound Bank:	USER01	7
Sound:	0 – < empty >	Select
Cance	» 1	ОК

Name

Name of the Sound to be saved. Press the **T** (Text Edit) button next to the name to open the Text Edit window.

Sound Bank

Target bank of Sounds. Each bank corresponds to one of the PERFORMANCE/SOUND buttons. Use TEMPO/VALUE controls to select a different bank.

Sound

Target Sound location in the selected bank. Use TEMPO/VALUE controls to select a different location.

Select... button

Press this button to open the Sound Select window, and select a target location.

Copy Oscillator dialog box

Open this window by selecting the Copy Oscillator item from the page menu. Here, you can copy all settings between oscillators.

Copy Oscillator	ļ
From Sound: D Grand Piano*	
From Oscillator: 1	
To Oscillator: <u>1</u>	
Cancel OK	

From Sound

Press this button to open the Sound Select window, and select the source Sound.

From Oscillator

Select the source oscillator to copy from.

To Oscillator

Target oscillator where to copy the source settings to.

Copy FX dialog box

Open this window by selecting the Copy FX item from the page menu. Here, you can copy all FX settings between FX processors.



From Sound

Press this button to open the Sound Select window, and select the source Sound.

From FX

Select the source effect to copy from.

To FX

Target effect where to copy the source settings to.

Copy Drum Kit dialog box

Open this window by selecting the Copy Drum Kit item from the page menu. Here, you can copy settings from a range of keys of a Drum Kit.

	Copy Dru	m Kit	:
From Dr	rum Kit: [Þ S	Standard	Kit RX1
From	Key: C-1	-	C#-1
То	Key: C-1		
Cance	1	C	ОК
		_	

From Drum Kit

Press this button to open the Sound Select window, and select the source Drum Kit.

From Key

Select the source range of keys to copy from.

To Key

Target key. Settings are copied starting from this key, and upwards.

AMS (Alternate Modulation Source) list

o	
Off	Do not use Alternate Modulation
Pitch EG	Pitch EG
Filter EG	Filter EG within the same oscillator
Amp EG	Amp EG within the same oscillator
LFO1	LFO1 within the same oscillator
LFO2	LFO2 within the same oscillator
Flt KTrk +/+ (Filter Keyboard Track +/+)	Filter keyboard tracking within the same oscillator
Flt KTrk +/- (Filter Keyboard Track +/)	Filter keyboard tracking within the same oscillator
Flt KTrk 0/+ (Filter Keyboard Track 0/+)	Filter keyboard tracking within the same oscillator
Flt KTrk +/0 (Filter Keyboard Track +/0)	Filter keyboard tracking within the same oscillator
Amp KTrk +/+ (Amp Keyboard Track +/+)	Amp keyboard tracking within the same oscillator
Amp KTrk +/ (Amp Keyboard Track +/)	Amp keyboard tracking within the same oscillator
Amp KTrk 0/+ (Amp Keyboard Track 0/+)	Amp keyboard tracking within the same oscillator
Amp KTrk +/0 (Amp Keyboard Track +/0)	Amp keyboard tracking within the same oscillator
Note Number	Note number
Velocity	Velocity
Poly AT (Poly After Touch)	Polyphonic After Touch (transmitted from the Pa1X only as sequence data)
Channel AT (Channel After Touch)	After Touch (Channel After Touch)
Joystick X	Joystick X (horizontal) axis
Joystick +Y	Joystick +Y (vertical upward) direction (CC#01)
Joystick Y	Joystick Y (vertical downward) direction (CC#02)
JS+Y & AT/2 (Joy Stick +Y & After Touch/2)	Joystick +Y (vertical upward) direction and After Touch
JS-Y & AT/2 (Joy Stick Y & After Touch/2)	Joystick Y (vertical downward) direction and After Touch
Ass.Pedal	Assignable foot pedal (CC#04)
CC#18	CC#18
CC#17	CC#17
CC#19	CC#19
CC#20	CC#20
CC#21	CC#21
Damper	Damper pedal (CC#64)
CC#65	Portamento switch (CC#65)
Sostenuto	Sostenuto pedal (CC#66)
CC#80	CC#80
CC#81	CC#81
CC#82	CC#82
CC#83	CC#83
Тетро	Tempo (tempo data from Sequencer 1 clock or external MIDI clock)
ba	

- Flt KTrk +/+ (Filter Keyboard Track +/+)
- Flt KTrk +/- (Filter Keyboard Track +/)
- Flt KTrk 0/+ (Filter Keyboard Track 0/+)
- Flt KTrk +/0 (Filter Keyboard Track +/0)

Amp KTrk +/+ (Amp Keyboard Track +/+)

Amp KTrk +/- (Amp Keyboard Track +/-)

Amp KTrk 0/+ (Amp Keyboard Track 0/+)

Amp KTrk +/0 (Amp Keyboard Track +/0)

+/+ The direction of the effect will be determined by the sign (positive or negative) of the "Ramp Low" or "Ramp High" setting. +/-

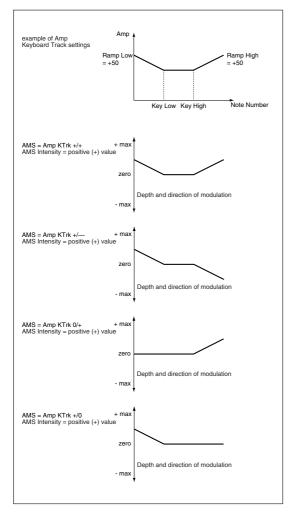
0/+

The direction of the effect will be determined by the sign of the "Ramp Low" setting, and by the opposite sign of the "Ramp High" setting (50 for a setting of +50, and +50 for a setting of 50).

"Ramp Low" will have no AMS effect. The sign of the "Ramp High" setting will determine the direction of its effect.

The sign of the "Ramp Low" setting will determine the direction of its effect. "Ramp High" will have no AMS effect.

+/0



JS +Y & AT/2 (Joy Stick +Y & After Touch/2)

The effect will be controlled by the joystick +Y (vertically upward) and by after touch. In this case, the effect of after touch will be only half of the specified intensity.

JS Y & AT/2 (Joy Stick –Y & After Touch/2)

The effect will be controlled by the joystick Y (vertically downward) and by after touch. In this case, the effect of after touch will be only half of the specified intensity.

Sampling operating mode

Pa1X includes a full-featured sampler, with powerful tools for creating (a) new sounds and (b) rhythm patterns, based on audio grooves.

New Sounds. Sampling allows you to create new sounds, by recording from an external source connected to Pa1X Audio Inputs, or by loading files from disk. Pa1X can read common formats, like WAV and AIFF files, Korg Trinity and Triton Samples, Korg Trinity and Triton Multisamples, Korg Triton Programs, and Akai[™] S1000 and S3000 Samples and Programs.

To be used, Samples must then be assigned to a Multisample or a Drum Kit. A Multisample allows you to arrange samples into separate zones of the keyboard. Drum Kits allows you to assign a different sample to each note of the keyboard, with up to six dynamic layers per note.

Multisamples can then be assigned to Sounds. Sounds created with this function can be used as any ordinary Sound, and assigned to any track.

The Load Sample function allows you to read samples (Korg ".KSF", Akai[®] ".S1" or ".S3", ".AIFF" and ".WAV") from disk. The Import function allows to read multisamples (Korg ".KMP" and Akai[®] ".P1" or ".P3") from Korg Trinity and Triton, or Akai S1000 or S3000 disks. Programs (".PCG" files) can be imported from Korg Triton disks, and converted to Sounds.

Note: Akai data can only be importeed from CD.

You can also use the Export function to export samples (".KSF") and multisamples (".KMP") in Korg proprietary format.

Audio Grooves. Another powerful feature of the Sampling mode is the Time Slice. This feature lets you add realism to MIDI tracks, by using sampled patterns as the rhythm track of a Style.

Cycling rhythm samples, or audio grooves, can be "sliced" into separate percussive instruments. Combined with MIDI tracks, the "sliced" audio groove can be kept in sync with the Tempo, and can play slower or faster than the original groove.

Note: Sampling is only available on instruments with the hard disk installed.

Warning: When loading a ".SET" folder containing Sounds associated with PCM data, all existing PCM data in memory are deleted. Save them before loading the folder, by selecting the "PCM" option during a Save All operation (see "Saving the full memory content" on page 259).

To see if a ".SET" folder contains PCM data, open it and look for a "PCM" folder.

Note: When entering the Sampling mode, samples are automatically loaded from the (hidden) PCM folder on the hard disk. This may take some time before this mode becomes operative.

Note: No sound will be heard when you first enter the Sampling mode.

Note: Some demo audio grooves can be found on the Korg Pa1X web site (<u>www.korgpa.com</u>).

Entering and exiting the Sampling mode

• While in Sound mode, press the RECORD button to enter in Sampling mode.

• While in Sampling mode, press the RECORD button to exit the Sampling mode, and return to the Sound mode.

The Record (Sampling) procedure

Here is a short overview of a typical sampling procedure.

- 1. With the MASTER VOLUME slider set to zero, connect the source to be sampled to one or both the Audio Inputs on the rear of the Pa1X. When the source has been connected, raise the MASTER VOLUME slider to a position other than zero.
- 2. Adjust the source volume.

• If recording from the MIC input, adjust the input level of the Pa1X using the GAIN knob next to the Audio Input connectors.

• If recording from the line inputs, adjust the source output level. If possible, set its output level to the maximum.

Watch at the AUDIO IN LED to check the input level. Ideally, the LED should turn to red only on signal peaks, and should usually stay orange (green means too low an input signal).

- **3.** Press the SOUND button to enter the Sound mode, then press RECORD to enter the Record page.
- 4. Use the "Record Mode" parameter to select the audio input to be sampled.
- 5. If you can, first start the source to be recorded, then press the Record button in the display to start recording.

As an alternative, press the Record button in the display, and immediately start the source to be recorded.

- 6. Press the Record button in the display again to stop recording. When the memory is full, the sampling automatically stops. A maximum of 10.9 seconds is allowed for each sample.
- 7. Play the keyboard to listen to the sampled sound.
- 8. If you are not satisfied with the recorded sound, press the Record button in the display again, to repeat recording. Press Record again to stop recording. A new sample will be automatically created.
- 9. When finished sampling your sound, you can either save it, or (if it is an audio groove) continue editing it with the Time Slice function.

• To save the sample, select the Write command from the page menu. The Write Sample dialog box will appear (see "Write Sample dialog box" on page 221). Assign a name to

the new Sample, and save it to the PCM folder on the hard disk.

• To create a series of separate percussive samples fro an audio groove, and a MIDI Groove, go to the Time Slice page. After creating a series of slices, use the Extend function to refine your groove. Select the Write command from the page menu, to save the sliced samples and the MIDI Groove to disk.

- After saving, press the MENU button and go to the "Multisample" section, to assign the sample(s) to a multisample. Assign each sample to a different keyboard zone of the multisample.
- **11.** When finished editing the multisample, select the Write command from the page menu. The Write Multisample dialog box will appear (see "Write MultiSample dialog box" on page 221). Assign a name to the new multisample, and save it to the internal memory (SSD).
- **12.** Press RECORD to exit the Sampling mode and return to the Sound mode.

• To access the new multisample, first select an ordinary Sound. Press MENU and go to the "Basic: OSC Basic" page (see page 189). Select one of the available layers, then select the RAM bank of multisamples. Finally, select the new multisample.

• To access the new sample(s), you must assign it to a Drum Kit. First select a Drum Kit. Press MENU and go to the "DrumKit: Sample Setup (Drum Kits)" page (see page 190). Select a key and a layer, then select the RAM bank of samples. Finally, select the new sample.

- **13.** Select the Write Sound command from the page menu, and save the Sound to an empty User location.
- 14. Assign the new Sound to a Style track (preferably, the Drum or Percussion track), then select the "Save Current Style Perf." command from the page menu, to save the Style Performance.
- **15.** If the new Sound is based on an audio groove, use the "Import: Import Groove" function in the Style Record mode (see page 118) to import the generated MIDI Groove to the Style track you assigned the new Sound to.

Warning: Generated MIDI Grooves will be deleted when turning the instrument off. Import them to a Style track before turning the instrument off.

Edit menu

From any page of the Sampling mode, press the MENU button to open the Sampling edit menu. This menu gives access to the various Sampling edit sections.

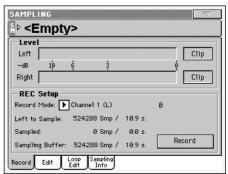
When in the menu, select an edit section, or press EXIT to exit the menu and return to the Sample Edit / Sample Record page. To return to this page, you can also select the Sample Edit / Sample Record menu item.

SAMPLING Menu
Sample Edit / Sample Record
TimeSlice MultiSample

Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by pressing the corresponding tab on the lower part of the display.

Sampling: Record

This page allows you to record a 16-bit, 48kHz stereo or mono sample.



SM (Sample)

Press this area to open the Choose Sample window, and select one of the available samples in the RAM memory for editing.

SAMPLING Choose Sample Number: Sample name	3	
0000: Sample 01		-
0001: Sample 02		•

Select one of the available samples. The window will be automatically closed after selecting.

Level

Use these meters to see the level of the entering signal. When the CLIP indicator turns red, the signal is too hot. Lower it by reducing the source output level, or by using the GAIN knob on the rear panel of the Pa1X.

In case of mono sampling, only one of the indicators will work.

REC Setup

Record Mode

Use this parameter to select the audio input on the back of the instrument.

- Channel 1 (L) Only the Input 1 is selected. A mono sample will be produced.
- Channel 2 (R) Only the Input 2 is selected. A mono sample will be produced.
- Channel 1&2 (Stereo)

Both inputs will be selected. A stereo sample will be produced.

Note: Whether you record or load a stereo or mono sample, the sample in memory will be treated as if it was stereo (the editor is always a stereo editor). Mono samples will be saved as mono files. Stereo samples will be saved as two separate mono files, and will be treated as mono files when reloaded.

Left to Sample

Non editable. Remaining memory (in samples/seconds) for sampling. The maximum space available for samples is 524,288 (mono or stereo) samples, or 10.9 seconds.

Sampled

Non editable. Used memory (in samples/seconds) for sampling.

Sampling Buffer

Non editable. Available memory (in samples/seconds) for sample editing.

Record button

Press this button to start recording. Press it again to stop recording. Recording will automatically stop when the maximum available space will end.

Note: Pa1X always samples at the maximum quality (16 bit, 48,000Hz). Samples of a different quality may be loaded (8 or 16 bit, 11,025Hz to 48,000Hz).

Sampling: Edit

This page allows you to cut, trim or normalize a sample, as well as edit the loop points. The sample can played on the full keyboard.

sampling		
	K-11	
Start: 0 Loop Start: 13 End: 18	9635 5600 OrigNote: <u>A#1</u>	< Zoom >
Record Edit	Loop Sampling Edit Info	

SM (Sample)

Selected sample. See "SM (Sample)" above.

Sample diagram

This is the graphical display of the selected sample waveform. The area included between the Start and End points is highlighted (dark background).

Parameters

Start (Sample Start)

This is the sample start point (in samples). You may edit this point, as well as the End point, to shorten the sample. Changing the Sample Start cuts out the attack portion of the sound.

Note: When moving the "Start" point forward, the "Loop Start" point is also moved forward.

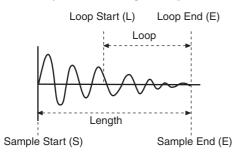
Warning: When saving the edited sample (Write Sample operation), the segments exceeding the Start and End points are permanently removed.

Loop Start

Note: Use the "Loop On" parameter on the "Sampling: Loop Edit" page to turn the loop on (see page 214).

Use this parameter to adjust the Loop Start point. When you adjust this parameter, an audible click may appear, due to a pitch and/or level mismatch between the starting and ending points of the loop. Move the Loop Start and Loop/Sample End point, so that the click can no longer be heard.

When editing audio grooves, the Loop Start should match the Sample Start point. This parameter usually differs from the Sample Start in ordinary sounds (i.e., a guitar, a piano, a voice...).



End (Sample/Loop End)

This is the sample and loop end point (in samples). You may edit this point, to shorten the sample.

Warning: When saving the edited sample (Write Sample operation), the segments exceeding the Start and End points are permanently removed.

Snap to Zero

Turn this parameter on, to make all Sample and Loop Start and End selections fall on zero-crossing points (i.e., points where the waveform crosses the x-axis, and goes from negative to positive, or from positive to negative values). This will make loops more accurate, and will reduce the risk of "clicks".

OrigNote (Original Note)

Original pitch of the sampled note. While this parameter means nothing in this page, it will be useful when assigning a sample to the multisample, to identify the original pitch of the sample.

For example, if you sample a C4, set this parameter to "C4". When the sample will be assigned to a keyboard zone of the multisample, it will be transposed (if needed) according to this parameter, to avoid a change of the original pitch.

Zoom

Use these buttons to change the size of the waveform shown in the diagram. When a button is greyed-out, it means the maximum or minimum value has been reached.

Ê	Increase the vertical size.
	Decrease the vertical size.
\supset	Increase the horizontal size.
$\overline{}$	Decrease the horizontal size.
\rightarrow	Full zoom in.
	Full zoom out.

Changing the sample length and finding good-sounding loop points

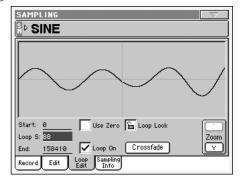
To adjust the sample length and loop points, check the "Loop On" parameter, then use the "Start", "Loop Start" and "End" parameters to create a fine sounding cycling loop. For example, you may have sampled an audio groove of an exceeding length. Use the "End" parameter to cut the exceeding portion at the end of the sample, and adjust the starting point of the loop using the "Start" or "Loop Start" parameters.

Usually, checking the "Snap to Zero" parameter is a big help, to avoid the loop clicks due to level mismatches.

Sampling: Loop Edit

The loop is a cycling portion of a sampled sound, that may match with the whole sample. After the attack stage, most sounds repeat the same waveform during their sustain stage. You may adjust the Loop Start point with the "Loop Start" parameter, and the Loop End point (always matching the Sample End point) using the "End" parameter.

This page lets you fine tune the loop points, by watching at the Loop End and Loop Start points matching at the center of the diagram. A good-sounding loop is shown as a continuous, nonbreaking line.



SM (Sample)

Selected sample. See "SM (Sample)" on page 211.

Loop diagram

This diagram shows the "End" (Loop End) point on the left half, and the "Loop Start" point on the right half of the screen. Use the "End" and "Loop Start" parameters to adjust the loop.

Parameters

Start

See "Start (Sample Start)" on page 212.

Loop Start

See "Loop Start" on page 212.

End

See "End (Sample/Loop End)" on page 213.

Use Zero

See "Snap to Zero" on page 213.

Loop Lock

This fixes the length of the loop being edited.

- Off The "Loop S." and "End" parameters can be edited separately.
- On When the "Loop S." or "End" parameter is edited, the other one will be automatically adjusted so that the distance between them (i.e., the loop length) does not change. This is convenient when you are creating a rhythm loop to match a specific tempo.

Loop On

Use this parameter to turn the loop on or off.

- On The loop is turned on, and the portion of sound included between the Loop Start and Loop End points will cycle until a key is kept pressed. If the "Loop Start" point matches the "Start" point, the whole sample is cycled.
- Off The loop is turned off. The sound will play from the Sample Start to the Sample End point only once, even if you keep a key pressed on the keyboard.

Crossfade

When looping the pitched sample of a complex sound such as strings or woodwinds to make the sound sustain, it is necessary to create a long loop to preserve the rich character of the sound. Crossfade Loop can be used to minimize the difference in pitch and level between the beginning and ending of the loop region, to create a natural-sounding loop. In order to solve such problems, Crossfade Loop causes the sound to change gradually from the end to the beginning of the loop.

In practice, here is how it works. A specific length (the "Crossfade Length" value) of the waveform immediately before the beginning of the loop is taken and mixed with the end portion. At this time, the waveform level of the portion immediately before the end (the length specified by "Crossfade Length") will gradually decrease, and the waveform level immediately before the beginning of the loop will gradually increase as the two are mixed.

When the "Loop On" parameter is checked, and the "Start" and "Loop S." parameters have different values, the "Crossfde" button becomes available.

When you press the Crossfade button, the Crossfade Loop dialog box appears:

Crossfad	le Loop
Crossfade length: 6	<u>60</u> %
Curve 💿 Linear	O Power
Cancel	ОК

Crossfade Length

In "Crossfade Length," specify the length of the sample that you wish to crossfade. You can enter it either as the number of samples, or a percentage (%). If you set this as a percentage, the number of samples will be calculated automatically.

If you set this to 50%, crossfade will be performed on the second half of the region between loop start and loop end.

The "Crossfade Length" cannot be greater than the smaller length between the Sample Start – Loop Start points, or the Loop Start – Sample End points.

Curve

Set "Curve" to specify how the volume will change in the cross-faded region.

Linear The volume will change linearly.

Power The volume will change non-linearly. Sometimes a setting of Linear will produce the impression that the volume has dropped in the middle of the crossfade curve. In such cases, use Power.

Sampling: Sampling Info

Use this page to see detailed info on the sample in edit. General information for the RAM memory is also available.

SAMPLING	∇
P⊳ Sample 02	
Sampling Info	Available Memory
Samples: 2	RAM Bank 1:
Drum Samples: 2	Mono Time: 166 s.
Di uni Jampies. 2	Bytes: 16012490
MultiSamples: 0	RAM Bank 2:
	Mono Time: 174 s.
	Bytes: 16777210
-Sample Info	
Selected samples: 15841	1
Samples: 15841	1
Sampling Frequency: 4800	0
Record Edit Loop Sampling	,

SM (Sample)

Selected sample. See "SM (Sample)" on page 211.

Sampling Info

Samples

Number of samples in memory.

Drum Samples

Number of drum samples in memory.

Multisamples

Number of multisamples in memory.

Available Memory

RAM Bank 1/2

The Sample RAM memory is divided in two banks of 16 Megabytes (MB) each. Pa1X comes with 16MB of RAM already installed, corresponding to Bank 1. You can install an additional (optional) module of 16MB, corresponding to Bank 2, for a total of 32MB.

Note: A sample cannot be split between the two banks. It must reside on just one bank.

Mono Time

Remaining sample memory (in seconds). This value is given for mono samples. With stereo samples, this time has to be halved.

Bytes

Remaining memory for sampling (in Bytes). This value is given for mono samples. With stereo samples, this time has to be halved.

Sample Info

Selected Samples

Size of the selected sample (in samples).

Samples

Total size of the samples in memory (in samples).

Sampling Frequency

Sampling frequency of the selected sample (in Hertz).

Time Slice

The Time Slice function lets you transform a rhythm audio groove in a series of single percussive samples, to be assigned to a Style or Song Drum or Percussion track.

SAMPLING	
	1
 	•
Metronome information	
Meter: <u>4/4</u> Measures: <u>1</u>	BPM: <u>72</u>
Time Slice	
Release: <u>4</u> Attacks: 0	
Threshold: 10 Slices: 0	Slice
Extend	
By: 0 % Mode: 🕨 Normal	Extend

Some theory...

Analyzing and processing. This function detects the attacks (e.g., kick and snare) inside a rhythm audio groove (a sample that loops a drum pattern), and automatically divides the audio groove into individual percussive samples.

The divided percussive samples will be automatically assigned to a multisample, and the multisample to a Sound.

Within the generated multisample, a separate sample is assigned to a different note on the keyboard, starting from C#3. By playing an ascending chromatic scale with this multisample, you could recreate the original audio groove.

A MIDI Groove will also be created, containing a sequence of notes triggering the sliced percussive samples in the same order as in the original audio groove (i.e., it plays an ascending chromatic scale starting from C#3).

When you will import this MIDI Groove to the percussive track of a Style (see "Import: Import Groove" on page 118), this sequence will let you adjust the groove's tempo without affecting the pitch of the percussive samples. In addition to changing the groove's tempo without affecting its pitch, this lets you do the following:

- change the order in which notes are played
- change the timing
- edit the pattern notes to freely recreate a new rhythm loop.

Saving. After the slicing, you can select the Write command from the page menu, to save the Sound based on sliced samples, and the MIDI Groove containing the corresponding MIDI sequence.

• The Sound will be saved to the selected location in the User area of the internal memory. You will be able to select it as an ordinary Sound, and assign it to the Drum or Percussion track of a Style.

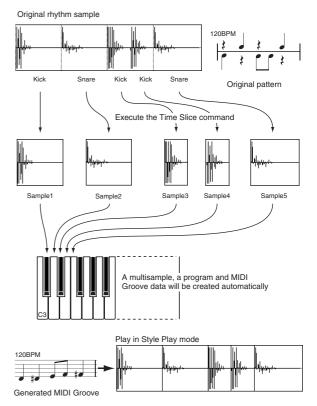
• The Multisample will be automatically saved to the next free available location.

• Samples will be permanently saved to the PCM folder on the hard disk. They can be automatically loaded when turning the instrument on, by checking the "PCM Autoload" option in Disk mode (see page 265).

• The MIDI Groove will be temporarily saved to the SSD memory, and will be available only when using the Import function of the Style Record mode (see "Import: Import Groove" on page 118).

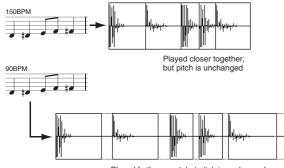
Warning: All MIDI Grooves will be delete each time the Pa1X is turned off.

Ex.1 - Generating samples and MIDI Groove data:



Note: Sliced samples and MIDI data are saved with a Write operation.

Ex.2 - Varying the groove's tempo

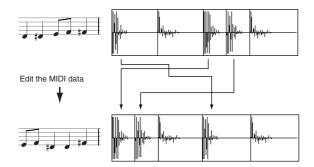


Played further apart, but pitch is unchanged

Note: To vary the groove's tempo, you must first import the generated MIDI data into the Percussion track (Import function of the Style Record mode), and assign the new generated Sound to the Percussion track.

Gaps between sliced samples, when slowing down the tempo, can be automatically filled by the Extend function, smoothing each sample's tail.

Ex.3 - Recombining MIDI notes and samples



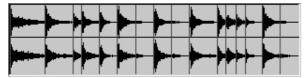
Note: To recombine notes inside the generated MIDI sequence, you must first import the MIDI data in Style Record mode, by using the "Import" function. Then, use the Event Edit to change the note order.

Sample diagram

This diagram shows the sample waveform and the slices. Here is how the sample diagram appears before the Slice:



... and the same diagram after the Slice:



Metronome Information

Meter

Use this parameter to specify the Meter of the original sample.

Measures

Use this parameter to specify the number of measures of the original sample. Usually, you will load a groove 1 or 2-measures long.

BPM

This parameter specifies the tempo (in Beats Per Minute) of the original sample. Pa1X automatically calculates this value based on the Start, End (see page 212), Meter and Measures parameters.

The BPM can be only adjusted to values lower than the one automatically calculated. This can be useful, for example, when the actual sample is shorter than the entered Meter and Measures values.

Meas.1	Meas.2	

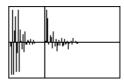
In the above example, the actual groove lasts only up to the first half of Measure 2. The recognized tempo is 130, while the real tempo is 100. Set the BPM value to 100, and a rest will be added to the end of the groove, to allow it to loop seamlessly.

Time Slice

See "The Time Slice procedure" on page 217 for more information.

Release

Adjust the value of this parameter to change the number of recognized attacks, by varying the speed needed to the Slice engine to start working again. For example, in the following example, if the Release value is too high (i.e., too long), the second attack may be lost:



Note: After changing the Release value, you must select the Slice command again.

Threshold

This parameter varies the threshold over which the attacks are recognized (i.e., the Time Slice sensitivity). If it is too low, weaker attacks may be ignored.

Note: After changing the Threshold value, you are not obliged to select the Slice command again. The Slices value is immediately changed.

Attacks

This (non-editable) parameter shows the number of attacks recognized. More than one attack may be recognized in a single slice. Adjust the Release and Threshold parameters to change the number of recognized attacks.

Slices

This (non-editable) parameter shows the number of generated slices, i.e. generated samples and notes in the midifile. To change this value, edit the Release and Threshold parameters.

Note: You can have a maximum of 78 slices.

Slice button

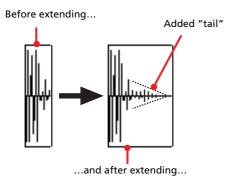
Select this command to execute the Slice after entering the Time Slice page, or changing the Release value. This command is "ghosted" (i.e., non-selectable) if no sample has been recorded of loaded yet.

The Time Slice operation is executed on the sample, from the "Start" to the "End" point set in the Sample Edit / Sample Record section.

Extend

See "The Extend procedure" on page 218 for more information.

When using a sliced groove with a slow tempo, an annoying gap may be heard between a sample and the following one. The Extend function allows you to fix this problem by adding a "tail" to all samples, making their decay smoother and more musical.



Note: You can use the Extend function only after a Time Slice operation.

Note: The Extend function increases the original sample size.

Note: If there is not enough buffer memory, the Extend function may not work. If this happens, please decrease the "By" value.

By

Use this parameter to set the length of the "tail" added to the samples (in percentage). The higher this value, the greater the size of the samples. A setting of 20-30% is usually suitable to most grooves.

Mode

This parameter specifies if the added "tail" must decay in a linear way, or sustain for a longer time and then fall suddenly.

Normal This option is most suitable for percussive sound with a short (but not immediate) decay. The "tail" envelope is linear, and the level decays fast.



Long

This option is most suitable for cymbals, whose sound should be sustained up until the next note. The "tail" envelope is sustained and falls slowly, then falls suddenly next to the end.



Extend button

Press this button to execute the Extend command. After you select it, it will return "ghosted", meaning that you can't select it again. If you change any of the parameters in this page, it will be available again.

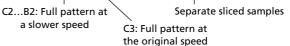
The Time Slice procedure

Before executing a Slice operation, you must record or load a sample. Then, you may edit the sample on "Sampling: Record", then execute the Slice operation on this sample.

- **1.** After recording or loading a sample, go to the Time Slice page.
- 2. Pa1X automatically calculates the BPM parameter, based on the given Meter and Measures values. If you know these data, set the Meter, Measures and BPM (Beats Per Minute) parameters. This would make the slicing more accurate.
- **3.** Select the "Slice" command.

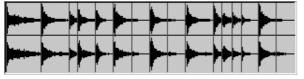
The original sample will be sliced, and each generated sample assigned to a different key:





Key	Assigned sample/pattern	Speed %	
C2	Full pattern cycling at half the speed	50%	
C#2	Full pattern cycling at various speeds		53%
D2		56%	
D#2		60%	
E2		63%	
F2		67%	
F#2		71%	
G2		75%	
G#2		80%	
A2		84%	
A#2		89%	
B2		94%	
C3	Full pattern cycling at the original speed	100%	
C#3 and above	Separate sliced samples	-	

A MIDI Groove with the original pattern will also be generated. The screen will change, to show slices separated by vertical lines:



4. Test the generated sliced drum kit on the keyboard.

• To test the full pattern at different speed, play a note from C2 (half speed) to C3 (original speed). See table above.

• To test the single sliced samples, play notes from C#3 and above. If you play a full chromatic scale, the original pattern will be sounded.

Hint: If too many samples have been generated, and the keyboard can't fit them all, use the OCTAVE buttons to transpose the keyboard, and listen to samples exceeding the upper limit.

- 5. If the Slice didn't produce satisfactory results, adjust the Release parameter. If this does not produces good results, try adjusting the Threshold parameter, too. After adjusting the Release parameter, you must execute the Time Slice again.
- 6. Since a tempo value rounding happens when making a Time Slice operation, and the loop may not be accurate, you may need to adjust both the "Start" and "End" parameters of the "Sampling: Edit" page, to make the groove loop flawlessly. After editing these parameters, you must execute the Time Slice again.

Go on experimenting different settings! Editing an audio groove is a pure matter of experimentation.

7. When the Slice is completed, you can save the sliced samples and the MIDI Groove to disk, or use the Extend function to improve the quality of the slices.

Select the Write command from the page menu. The Write Slice dialog box will appear (see "Write Slice dialog box" on page 222). Assign a name to the new Sound, and save it to an User Sound location.

A MIDI Groove with the same name will also be saved to a reserved area of the internal memory. Be warned, that this area will be deleted when turning the instrument off. Convert it to an internal Style pattern, by using the Import function of the Style Record mode, before turning the instrument off.

• To improve the quality of the slices, use the Extend function (see "Extend" below).

- 8. After saving, you may press RECORD to exit the Sampling mode.
- **9.** After exiting the Sampling mode, you may load the generated MIDI Groove by using the Import function of the Style Record mode (see "Import: Import Groove" on page 118 for more information).

The Extend procedure

- Set the By parameter, according to the tempo of the groove you will use. If you will slow down the groove very much, assign higher values to this parameter, otherwise you may assign lower values.
- 2. Select the Extend Mode. "Long" is more suitable for cymbals.
- 3. Select the Extend command.
- 4. After the Extend operation is complete, test the full pattern at different speed, by playing notes from C2 (half speed) to C3 (original speed). See table on page 217.
- 5. If the Extend didn't produce satisfactory results, change the settings. Any previously made change will be deleted.
- 6. When the Extend is completed, you can save the sliced and extended samples and the resulting MIDI Groove to the internal memory.

Select the Write command from the page menu. The Write Slice dialog box will appear (see "Write Slice dialog box" on page 222). Assign a name to the new Sound, and save it to an User Sound location.

A MIDI Groove with the same name will also be saved to a reserved area of the internal memory. Be warned, that this area will be deleted when turning the instrument off. Convert it to an internal Style pattern, by using the Import function of the Style Record mode, before turning the instrument off.

- 7. After saving, you may press RECORD to exit the Sampling mode.
- 8. After exiting the Sampling mode, you may load the generated MIDI Groove by using the Import function of the Style Record mode (see "Import: Import Groove" on page 118 for more information).

Multisample: Edit MS

The Multisample is a way of organizing several samples on the keyboard. Each sample is assigned to a Keyboard Zone (or Index), with a higher and a lower limit.

A Multisample is then assigned to a Sound (see "Basic: OSC Basic" on page 189), where it is enriched with several performance parameters, like Amplitude Envelope, LFO, Filters, etc...

SAMPLING
B MultiSample 02
- c2
Multisample Setup Index: 1/28 2Sample 02(00) n>
Original Note: <u>C#3</u> _Level: <u>0</u> Pitch: <u>0</u> From: <u>C-1</u> To: <u>G9</u>
Insert Add Delete

MS (MultiSample)

Press this area to open the Choose Multisample window, and select one of the available multisamples in memory.

Keyboard diagram

This diagram shows the selected Index/Zone (highlighted), and its Original Note (in red). Use the big "–" and "+" button on its side to scroll the diagram one octave lower or upper.

Multisample Setup

Index

Index number of the selected Zone of the multisample / total number of Zones in the multisample. A Zone always corresponds to a single sample.

Sample Number / Name

Number / name of the sample assigned to the selected zone of the multisample.

Original Note

Use this parameter to automatically transpose the assigned sample, to make it sound at the right pitch. It should match to the "OrigNote (Original Note)" value assigned when editing the sample (see page 213).

Level

Relative level of the selected zone.

Pitch

Fine tuning of the selected sample in cents (1 cent = 1/100 of a semitone).

From ... To

Range of the selected Zone (or Index).

Buttons

Insert

Press this button to create a new zone (Index) after the selected one.

Add

Press this button to add a new zone (Index) after the last one.

Delete

Press this button to delete the selected Zone/Index.

Multisample: Key Assign

Use this page to see and edit the samples assigned to each Keyboard Range/Index in the multisample. This page gives a better display of the assigned samples and their range on the keyboard.

	SAMPLING	$\overline{\nabla}$
	MultiSample 02	
		(8) (+)
Sample list 🗕	Sample 92(6 C-1	69
	Sample 02(0 <mark>0</mark> 6#9	69
	Sample 02(0 <mark>0</mark> 6#9	69
	Sample 02(0 6#9	69
	Sample 02(0 6#9	69
	Sample 02(0 6#9	69
	EditMS Reg	
	Keyboard ranges	

MS (MultiSample)

See "MS (MultiSample)" on page 219.

Sample list

List of samples assigned to the selected multisample. Use the big button with an arrow on top and to the bottom of the list to scroll the list up or down.

Keyboard ranges

Next to each sample name the low and high Zone limits appear. Edit these values to change the Zone range. The Original Note is shown in red.

Page menu

Press the page menu icon to open the menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.

Write Init MultiSample	
Delete	Load Sample
Normalize	Import
Cut	Export
Trim/Crop	Exit from Record
Select All	

Write

Select this command to open the Write Sample, Write Multisample or Write Slice dialog box (depending on the page you are in), and save the sample(s) to the hard disk (PCM folder), and the multisample(s) or the Sound generated by the Time Slice function to the internal memory (SSD).

See "Write Sample dialog box" on page 221, "Write MultiSample dialog box" on page 221, or "Write Slice dialog box" on page 222 for more information.

Delete

Select this command to delete one or all samples and multisamples from memory.

See "Delete Sample dialog box" on page 222, or "Delete Multisample dialog box" on page 222 for more information.

Normalize

Select this command to automatically rescale the level of the selected sample. Peaks will be raised to -0dB (i.e., maximum volume before clipping), while the remaining parts of the sample will be proportionally raised.

Normalization optimizes the sample's level relative to other samples, making all samples sound more uniformly. It also helps optimizing signal/noise ratio, by preventing further stages of amplification from increasing any residual noise.

Cut

Select this command to cut the selected part of the sample (inside the "Start" and "End" points).

Trim/Crop

Select this command to cut all parts of the sample out of the selected range (i.e., out of the "Start" and "End" points).

Select All

Use this command to select the whole sample.

Init Multisample

Only available in the Multisample page. Select this command to create a new, blank multisample. Only one Zone will be available, with no sample assigned.

Load Sample

Use this command to load single samples (mono or stereo), in KSF, AIFF or WAVE format.

Warning: By loading new samples, all samples in RAM are deleted. Before loading, use the Write command to save older samples to disk.

SAMPLING: Load Sa	mple		
Type * Name	Size	e Date	
DIRECTHD		26-08-03 18:40	Ā
		26-08-03 18:3	5
			Ļ
HD Open	Close	Load)

The samples are loaded to the RAM memory. Before leaving the Sampling mode, use the Write command to save samples to the hard disk (PCM folder) as New Samples.

- "KSF" is Korg's native sample format, used by the Trinity and Triton series of workstations, as well as the Pa-series arrangers. The file name must have the ".KSF" extension.
- "S1" is Akai S1000, and "S3" is S3000 native sample format.
- "AIFF" is the Apple[®] Macintosh[©] preferred format for audio. The file name must have the ".AIF" extension.
- "WAVE" is the Microsoft[©] Windows[©] preferred format for audio. The file name must have the ".WAV" extension.

Note: Akai data can only be imported from CD.

Note: You can only load samples in a 8 or 16-bit resolution, and a sampling frequency rate from 11,025 to 48,000Hz. Loaded samples always preserve their original resolution.

Note: If the sample exceeds the maximum size allowed by the Pa1X (524,288 samples, either mono or stereo), it will be truncated.

Import

Use the Import command to import sounds, multisamples and samples from non-native (i.e., non-Korg) formats.

SAMP	LING: Load S	Sample		
Type 7	* Name	Size	e Date	
	DIRECTHD		26-08-03	18:40
	■ MYSHOW		26-08-03	18:35
				_
, •	HD Open	Close	L	pad

With this command, you can import the following formats:

- "PCG" is Korg's native Program format, used by the Trinity and Triton series of workstations. The file name must have the ".PCG" extension
- "KMP" is Korg's native multisample format, used by the Trinity and Triton series of workstations. The file name must have the ".KMP" extension.

• "P" is Akai S1000 and S3000 native Program format (including the sample key assignation, or multisample).

Note: Akai data can only be imported from CD.

Imported Sounds and Multisamples are stored in the internal SSD memory, that cannot be deleted when turning the instrument off.

Imported Samples are stored in RAM, and are deleted when turning the instrument off. Before turning the instrument off, save them to disk by selecting the Write command from the page menu while in any page of the Sample Edit / Sample Record section.

To automatically load samples when turning the instrument on, check the "PCM Autoload" function in Disk mode (see page 265). To load samples after turning the instrument on, press the "Load PCM" button in the same page (see page 266).

Note: While Pa1X and Triton share most of their internal multisamples, some of them may differ. While reading a PCG file, Pa1X tries to use exactly the same multisamples as in Triton. If this is not possible, it looks for a similar multisample. If this too is not possible, an <empty> multisample will be selected. Enter the Sound Edit mode, and select a multisample suitable for the imported Program.

Note: Not all Triton's PCG data are imported. Insert FX, EQ, Arpeggio, Combi, Global and Drum Kit data are not loaded.

Note: You cannot import Drum Kits.

Note: Pa1X cannot read multisamples saved on more than a single floppy disk.

Note: Multisample may contain many different samples. They are assigned to the same keys as in the original file.

Hint: When importing a KMP file, take note of the selected multisample name; you will need it in Sound Edit mode, when assigning the multisample to a new Sound.

Export

Depending on wheter you are in the "Sample Edit / Sample Record" or "Multiample" section, this command allows you to export a sample in one of two popular computer audio file formats, or a multisample in a Korg ".KMP" file.

See "Export Sample dialog box" on page 223, or "Export Multisample dialog box" on page 223 for more information.

Exit from Record

Choose this command to exit from the Sampling mode.

Write Sample dialog box

Open this dialog box by selecting the Write command from the page menu, while in the Sample Edit / Sample Record section. In this dialog box you can save the sample to disk, inside the (hidden) PCM folder. Please always remember to save PCM samples into a ".SET" folder, before turning the instrument off, or before loading or recording new samples.

₩rite Sample
Name: T <new recording=""></new>
Save as a new Sample
O Save To 0
Cancel OK

To assign a different name to the sample, press the **T** (Text Edit) button to open the Text Edit window.

Select an option to select a memory location where to save the sample:

- Select "Save as a new Sample" to save to a new location.
- Select "Save to" to overwrite an existing location. *Warning: The older sample at the same location will be deleted!*

Write MultiSample dialog box

Open this dialog box by selecting the Write command from the page menu, while in the Multisample section. In this dialog box you can save the multisample to the internal memory (SSD). Multisamples are a way to organize samples on the keyboard, and are used by Sounds as their basis.

Note: Multisamples are maintained in memory even when turning the instrument off, but the associated samples are not. To automatically reload them to the RAM memory when turning the instrument on, check the "PCM Autoload" parameter in the Disk mode (see page 265).

₩rite MultiSample
Name: <u>T</u> MultiSample 02
◯ Save as a new MultiSample
Save To <u>gample 02</u>
Cancel OK

To assign a different name to the multisample, press the **T** (Text Edit) button to open the Text Edit window.

Select an option to select a memory location where to save the sample:

- Select "Save as a new MultiSample" to save to a new location.
- Select "Save to" to overwrite an existing location. *Warning: The older multisample at the same location will be deleted!*

Write Slice dialog box

Open this dialog box by selecting the Write command from the page menu, while in the Time Slice page. In this dialog box you can save the Sound, sliced Samples and Multisample generated by the Time Slice function, together with the generated MIDI Groove.

The Sound will be saved to the selected User bank location in the internal, non-volatile memory (SSD). The Multisample will be saved to a free location in the internal memory (SSD). Samples will be saved in the PCM folder on the hard disk.

Note: The MIDI Groove is automatically saved in a reserved, temporary location on disk, and is automatically deleted when turning the instrument off. So, import it (by using the "Import: Import Groove" function in Style Record mode, see page 118), before turning the instrument off.



Warning: The older Sound at the target location will be deleted!

Name

To assign a different name to the Sound, press the **T** (Text Edit) button to open the Text Edit window.

Sound Bank

Target bank of Sounds. Each bank corresponds to one of the PERFORMANCE/SOUND buttons. Use TEMPO/VALUE controls to select a different bank.

Sound

Target Sound location in the selected bank. Use TEMPO/VALUE controls to select a different location.

Select... button

Press this button to open the Sound Select window, and select a target location.

Delete Sample dialog box

Open this dialog box by selecting the Delete command from the page menu, while you are in any page of the Sample Edit/Sample Record section.

Delete S	ample
Selected 1 TADA	L
C Not assigned to any Mu	ulti Sample/Drumkit
🔿 All Samples, MultiSa	mples, DrumSamples
Cancel	ОК

- Select "Selected", and select a sample number, to delete just one of the samples from memory.
- Select "Not assigned to any Multisample/Drumkit" to delete only samples not yet assigned to a multisample or drumkit (see paragraphs on the "Multisample" section, starting from page 198).

Note: Use this option with care, since you may delete samples you would like to preserve, that have not yet been assigned to a multisample or drumkit. Use it only when you are sure all desired samples have been assigned to a multisample or drumkit.

 Select "All Samples, Multisamples, Drum Samples" to delete all samples, multisamples and drum samples from memory. This operation completely resets the RAM, and may be used to "clean-up" any trouble.

Delete Multisample dialog box

Open this dialog box by selecting the Delete command from the page menu, while you are in any page of the Multisample section.

Delete MultiSample
Selected 8 < Empty MS>
Delete Unassigned Samples
C All MultiSamples
🔿 All Samples, MultiSamples, DrumSamples
Cancel OK

• Select "Selected", and select a multisample number, to delete just one of the multisamples from memory.

Check the "Delete Unassigned Samples" option, to also delete all samples not assigned to a multisample.

Note: Use this option with care, since you may delete samples you would like to preserve, that have not yet been assigned to a multisample or drumkit. Use it only when you are sure all desired samples have been assigned to a multisample or drumkit.

• Select "MultiSamples" to delete all multisamples. No samples will be deleted, including those associated with the deleted multisamples.

• Select "All Samples, Multisamples, Drum Samples" to delete all samples, multisamples and drum samples from memory. This operation completely resets the RAM, and may be used to "clean-up" any trouble.

Export Sample dialog box

Open this dialog box by selecting the Export command from the page menu, while you are in any page of the Sample Edit/Sample Record section.

Export Sample
Original Name: <new recording=""></new>
Save Name: T NewRecor
File Type: 💽 .WAY – Wave Format
Cancel OK

Original Name

Name of the sample being exported.

File Name

Name of the generated file on disk.

File Type

Either of the file types you can choose as the file format.

- WAV Microsoft Wave format, very common on Windows PCs.
- AIFF Apple's Audio Interchange File Format, standard on the Macintosh.

Export Multisample dialog box

Open this dialog box by selecting the Export command from the page menu, while you are in any page of the Multisample section.

SAMPLING: Export MultiSample	
Type * Name Size	Date
DIRECTHD	26-08-03 18:40
	26-08-03 18:35
	-
HD Open Close	Save

By using this function, you can export from the internal memory the multisample in edit in the Multisample section, and all linked samples. The Export operation generates a ".KMP" file (Korg's proprietary file format for multisamples), and a folder containing a series of ".KSF" files (Korg's proprietary file format for samples) inside the same directory.

Note: You cannot export a multisamples on more than a single floppy disk. You can, however, export files of any size on the hard disk.

Note: When exporting a stereo multisample, be careful to assign a different name to the Left and Right channel files, to avoid over-writing. A "-L" and "-R" suffix is usually added after the name of this kind of files.

Global edit mode

The Global edit environment is the place where you can set global functions, i.e. functions overriding the single Performance, STS or Style. This edit environment overlaps the current operating mode (Style Play, Song Play, Sequencer, Sound Edit).

What is it, and how the Global is structured

The Global is a file that can be written to memory (and may subsequently be saved to disk), containing global parameters for the whole instrument or each single operating mode.

Global parameters can be written to memory by selecting the various "Write Global..." commands from the page menus – each dedicated to one of the areas of the Global file. They can be saved to disk by using the ordinary Disk operations.

Note: Saving or loading a ".SET" folder also saves or loads the Global file. Parameter changing may be avoided by turning the Lock on for any single parameter (or groups of parameters in the Lock page of the Global mode, see "General Controls: Lock" on page 227).

There are separate areas in the Global file, that may be separately written to memory, to avoid writing all global parameters at once when not needed:

- Global Setup, containing global parameters not linked to any single operating mode.
- Style Play Setup, containing global parameters for the Style Play mode, not linked to the single Performance, STS or Style.
- Song Play Setup, containing global parameters for the Song Play mode, not linked to the single Song.
- Sequencer Setup, containing global parameters for the Sequencer mode, not linked to the single Song.
- Disk Preferences, containing preferences for the Disk mode.
- MIDI Setup, containing the available MIDI Setups, i.e., settings for MIDI communication.
- Voice Processor Setup, containing lead voice setups for the Voice Processor.
- Voice Processor Presets, containing single presets for the Voice Processor.

Main page

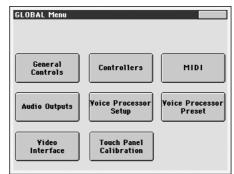
There is no main page in the Global edit mode. When pressing EXIT, you exit the Global mode, and the underlying operating mode in the background is recalled.

Edit menu

From any page of the Global mode, press the MENU button to open the Global edit menu. This menu gives access to the various Global edit sections.

When in the menu, select an edit section, or press EXIT to exit the Global mode.

When in a page, press EXIT to go back to current operating mode in the background (Style Play, Song Play, Sequencer, Sound).

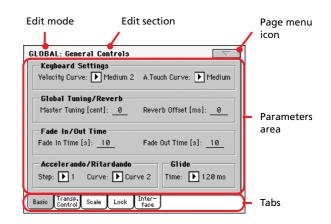


Each item in this menu corresponds to an edit section. Each edit section groups various edit pages, that may be selected by pressing the corresponding tab on the lower part of the display.

Note: The Global mode is not available while in Record mode (Style Record, Song Record, Sampling).

Edit page structure

All edit pages share some basic elements.



Edit mode

This indicates that the instrument is in Global mode.

Edit section

This identifies the current edit section, corresponding to one of the items of the edit menu (see "Edit menu" on page 224).

Page menu icon

Press this icon to open the page menu (see "Page menu" on page 251).

Parameters area

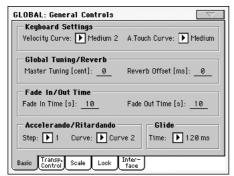
Each page contains various parameters. Use the tabs to select one of the available pages. For detailed information on the various types of parameters, see sections starting from page 225.

Tabs

Use tabs to select one of the edit pages of the current edit section.

General Controls: Basic

This page contains various general parameters, setting the status of the keyboard, the fade in/out, and the accelerando/ritar-dando.



Keyboard Settings

Velocity Curve

► GBL^{Gbl}

This parameter sets the sensitivity of the keyboard to your touch.

Fix No dynamic control available. Dynamic values are fixed, as in a classic organ.

Soft1 ... Hard3

Curves, from the lightest one to the hardest one.

A.Touch Curve

This parameter sets the sensitivity of the keyboard to the pressure you apply after first pressing a key.

Soft1 ... Hard2

Curves, from the lightest to the hardest.

Global Tuning/Reverb

Master Tuning

▶ GBL^{Gbl}

► GBL^{Gbl}

This is the master tuning of the instrument (in cents of a semitone). Use it to adapt your keyboard tuning to an acoustic instrument, for example an acoustic piano.

- -50 Lowest pitch.
- 0 Standard pitch (A4=440Hz).
- +50 Highest pitch.

Reverb Offset

▶ GBL^{Gbl}

This is the master offset for all reverbs. Use it to adjust reverb tails to the room where you are playing. Use negative values when you are in a very reverberant room, positive values if the room is too dry.

By using this global control, you are not obliged to change the reverb time in each single Performance, STS, Style Performance, or Song.

-50 Less reverb.

0 Standard reverb.

+50 More reverb.

Fade In/Out Time

These parameters allows you to set the speed for the Fade In/Out function.

Fade In Time

Time for a full fade in (from zero to maximum volume), after you press the FADE IN/OUT button.

5...20 Fade time (in seconds).

Fade Out Time

► GBL^{Gbl}

▶ GBL^{Gbl}

Time for a full fade out (from maximum volume to zero), after you press the FADE IN/OUT button.

5...20 Fade time (in seconds).

Accelerando/Ritardando

These parameters lets you adjust the speed of the Accelerando and Ritardando functions.

Step

Speed of the Tempo change (from 1 to 6). With higher values, the step change is greater, and the speed will change faster. With lower values, the step change is smaller, and the speed will change more slowly.

Curve

Accelerando/ritardando curves (from 1 to 3). Experiment the various options, to see the one that best fit your taste.

Glide

Glide is a function you can assign to a footswitch. When the pedal is pressed, affected notes on Upper tracks are bent down, according to settings for the Pitch Bend on the same tracks. When the pedal is released, notes return to the normal pitch, at the speed defined by the "Time" parameter.

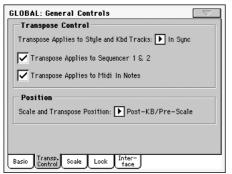
To change Pitch Bend values for each Upper track, see the "PB Sensitivity" parameter in the Style Play mode (see page 84)

Time

Time needed to notes affected by the Glide to return to the normal pitch.

General Controls: Transpose Control

This page is where you can select to which tracks the Master Transpose is applied to, and adjust some related parameter.



Transpose Control

Transpose applies to Style and Kbd tracks... >GBLGbl

Use this parameter to turn the Master Transpose on or off, and define the way it is applied, to Style and Keyboard tracks.

- Off No Master Transpose is applied to Style and Keyboard tracks.
- In Sync When you press either the TRANSPOSE [,] or [#] buttons, the new transpose setting will not take effect until the first beat of the next measure is reached. Keyboard tracks sounding at the time of the transpose will be stopped.
- In Realtime When you press either the TRANSPOSE $[\bar{b}]$ or $[\bar{b}]$ buttons, the new transpose setting will occur when the next note is played for both the Style and Keyboard tracks individually. (Note that any note playing from the Keyboard tracks will be stopped when you press the TRANSPOSE button).

The next key or chord you press will sound with the new transpose setting applied. (Note that if you play a Keyboard track prior to a new chord, the Keyboard track will play in the new key as the Style will continue to play in the old key until a new chord is entered).

Transpose applies to Sequencer 1/2

▶ GBL^{Gbl}

This flag lets you turn the Master Transpose on or off for the two onboard Sequencers.

Transpose applies to Midi In notes >GBLGbl

This flag lets you turn the Master Transpose on or off for Note messages received from MIDI IN.

Position

Scale and Transpose position

The Scale and Transpose Position allows you to define the relation between the Scale and the Master Transpose.

Post-KB/Pre-Scale

When this option is selected, notes will be transposed immediately after they leave the keyboard. The Scale will be applied to the transposed notes. For example, if you altered an E, and then set the Master Transpose to +1, the E key will play F, and the altered key will be E_p (that will play an altered E).



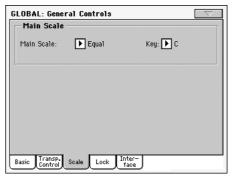
Post-KB & Scale

When this option is selected, all notes are transposed immediately before they enter the internal tone generator, or are sent to the MIDI OUT, but after the Scale. For example, if you altered an E, and set the Master Transpose to +1, the altered key will still be E (that will play an altered F).



General Controls: Scale

This page lets you select the main (or basic) scale of the instrument.



Main Scale

This parameter sets the main scale (or temperament) for the whole instrument, apart for tracks where a different sub-scale has been selected by a Performance or STS (see "Scale Mode" on page 93, Style Play mode).

See "Scales" on page 375 for a list of available scales.

Note: You cannot select a User scale in Global mode.

Key

This parameter is needed by some scales to set the preferred key (see "Scales" on page 375).

► GBL^{Gbl}

► GBL^{Gbl}

General Controls: Lock

This page contains all the available locks, sometimes grouped under just a single lock. Locks prevent parameter values to be changed by loading data from disk, or selecting a different Performance, Style or STS.



Locks

► GBL^{Gbl}

All the available locks. Lock them to prevent changes due to loading or selecting different elements. These locks are also found in various other pages, next to the locked parameter.

Hint: To save the status of the various parameters as a fixed status for the Pa1X, save all the parameters to Performance 1 of bank 1 (automatically selected when turning on the instrument), and save these locks to the Global.

Master Transpose

When locked, master transpose is not automatically changed when selecting a different Performance or style.

(See "Master transpose" on page 76).

Voice Processor Preset

When locked, selecting a Performance or STS will not change the Voice Processor Preset.

(See "VP Preset" on page 80).

Pad When locked, selecting a Performance or STS will not change the Pad assignment.

(See "Pad/Switch: Pad" on page 92).

Assignable Switches

When locked, selecting a Performance or STS will not change the Assignable Switch assignment.

(See "Pad/Switch: Assignable Switch" on page 92).

Slider Mode When locked, selecting a Performance or STS will not change the selected status of the SLIDER MODE button.

(See "Assignable Sliders A 1-8, B 1-8" on page 229).

Split Point When locked, selecting a Performance or STS will not change the split point.

(See "Split Point" on page 81).

Style Tracks Play/Mute Lock

When closed, this lock prevents a Style or Performance change to modify the Play/Mute status of the Style tracks. This way, you can, for example, turn the bass track off during a whole show, to allow your bassist to play it live. Also, you could mute all Acc tracks, to only play with the Drum and Bass tracks.

(See "Track status icons" on page 80).

Style Performance Master Transpose Lock

When closed, this lock prevents a Style change to modify the Master Transpose. When open, changing a Style may also change the Master Transpose.

(See "Master transpose" on page 76).

Hint: In order to avoid having the Master Transpose setting change when selecting a new Performance or STS, use the general Master Transpose Lock (the first parameter in this page).

Note: When the Master Transpose Lock is closed, this parameter has no effect. However, the Master Transpose Lock also locks the Style Performance Transpose.

Bass Inversion

When locked, selecting a Performance or STS will not change the Bass Inversion status.

(See "BASS INVERSION" on page 9).

Manual Bass When locked, selecting a Performance or STS will not change the Manual Bass status.

(See "MANUAL BASS" on page 9).

Style Preferences

When locked, selecting a Performance or STS will not change the value of parameters contained in the Style Preferences pages.

(See "Preferences: Style Preferences" on page 93, and "Preferences: Global Setup" on page 94).

- Style Element When locked, selecting a different Style does not cause selecting a different Style Element.
- Fill Mode When locked, the selected Fill Mode will not change when selecting a different Performance or Style.

(See "Fill Mode (1...3)" on page 91).

Sub Scale/Quarter Tone

When locked, selecting a Performance or STS will not change the Sub-Scale or Quarter Tone value.

(See "Sub-Scale panel" on page 81).

Auto Octave This lock lets you decide if the instrument will automatically transpose the Upper tracks when switching between the FULL UPPER and the SPLIT Keyboard modes.

• If On, when switching to the FULL UPPER or SPLIT Keyboard Mode, the Upper tracks transposition is left unchanged.

• If Off, when switching to the FULL UPPER Keyboard Mode, the Upper tracks Octave Transpose is automatically set to "0". When switching to the SPLIT Keyboard Mode, the Upper tracks Octave Transpose is automatically set to "-1".

Upper 1 FXs In Sound mode, you can assign a Sound two effects (FX1 and FX2). When you assign a new Sound to the Upper 1 track, the FX1 and FX2 settings saved with that Sound can be automatically selected, overriding Performance/STS settings for this track. Whether Sound or Performance/STS effect parameters will be considered, depends on the status of this lock.

• If the Upper 1 FX Lock is turned on, when assigning a new Sound to the Upper 1 track, Performance/STS parameters are left untouched; selected effects, and FX Send values, are not changed.

• If the Upper 1 FX Lock is turned off, when assigning a new Sound to the Upper 1 track, Sound parameters are considered; selected effects, and FX Send values, are changed according to the Sound's stored data.

Note: If effects associated to the selected Sound are not compatible with effects already assigned to the CD FX block, C and/or D Send values on the other Keyboard tracks will be automatically set to zero.

For example, assume a chorus effect is assigned to the D effect processor. If the new Sound assigns a distortion effect to the D effect processor, the D Send value on the Upper 2, Upper 3, and Lower tracks will be set to zero, to avoid these tracks sound in the wrong way. This way, the Upper 1 track (usually the most important one for solo playing) will sound with the needed effect, while the other Keyboard tracks will just sound dry.

General Controls: Interface

This page contains parameters related to the way messages are shown in the display.

GLOBAL: General Controls
Help Language
Language: English Change
Program Change
Show Program Change Number
Track Activity
Show Track Activity
Auto Select
Auto Style Select Auto Performance/Sound Select
Basic Transp. Scale Lock Inter-

Help/Message Language

Language

Use this pop-up menu to select one of the available languages for the online help system. Operating System version 2.0 supports the English, French, German, Italian and Spanish languages.

Change button

Press this button to apply the selected language to the user's interface.

How to select the Help language

- 1. Since Pa1X must be reset at the end of this procedure, be sure to first save all unsaved data.
- 2. While in this page, select a language from the pop-up menu.
- 3. The Change button will start flashing in red. Press it.
- 4. You will be asked if you want to save the Global, and select the new language. Press Yes to confirm. The Global will be automatically saved, and the language selected.
- 5. A message will advice you to reboot the Pa1X. Press OK to close the message window.
- 6. Turn the Pa1X off, then on again.

Track Activity

Show Track Activity

Use this parameter to turn on/off the Track Activity display. When it is turned on, you can monitor events coming from the tracks or the MIDI inputs. Incoming events are shown by the changing color of each track's label.

	<u>ري</u> 181	_ <u>∎</u> № 123	l I S		₽ ^Ŋ	אין 100	אין 100
T01					10 6	T07	T08
Volume	, IIIKP	Lyrics	313	Mic	Sub	Pad	Split

Here is the list of colors and their meaning:

Red	Data coming from the MIDI IN ports.
Light Blue	Internal data, generated by the keyboard, pads, the Arranger or one of the Sequencers.
Grey	Either internally or externally generated data (or both at the same time).
Dark Blue	No data received.

Program Change

Show Program Change number

► GBL^{Gbl}

Program Change display next to Sound names can be turned on or off, to make the interface less cluttered with data.

Check this parameter to show Program Change numbers next to Sound names in the main page of the Style Play and Song Play operating modes, and in the various Single Track Info areas.

Note: Program Change numbers are always shown in Sound Edit mode.

► GBL^{Gbl}

► GBL^{Gbl}

Auto Select

Auto Style Select	► GBL ^{Gbl}
Auto Performance/Sound Select	► GBL ^{Gbl}

When one of these parameters is checked, the last selected Style, Performance or Sound selected in a bank is immediately selected when pressing the bank button.

This way, you can assign your preferred Style, Performance or Sound to each control panel's button, and select it just with a single press.

However, the Style/Perf/Sound Select window still appears when you press one of the bank buttons, so you can select a different item if desired.

Note: The memorized Style, Performance or Sound is reset to the first one in each bank, when turning the instrument off and then on again.

Hint: Save your preferred Performances into the first location of each bank. This way, by turning on this parameter, you will select your preferred Performance at the touch of a single button.

Also note that, by turning the "Factory Style and Pad Protect" parameter off, you can do the same with the Styles.

Controllers: Pedal/Switch

This page lets you select a function to the Assignable Pedal/Footswitch, and select the polarity for the Damper and Assignable Pedal/Footswitch.

GLOBAL: Controllers
Pedal/Footswitch
Pedal/Footswitch: 🕨 Glide
Damper Polarity: 💽 - (Korg)
Pedal/Switch Polarity: ▶ - (Korg)
Pedal Assign. EC5

See page 371 for a list of the assignable functions. The first functions are switch-type functions, while the remaining (starting from Master Volume) are continuous-like functions.

Pedal/Footswitch

► GBL^{Gbl}

► GBL^{Gbl}

▶ GBL^{Gbl}

Continuous pedal, or footswitch, connected to the ASSIGN-ABLE PDL/SW connector.

Damper Polarity

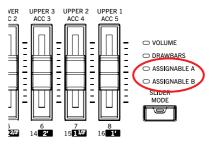
Polarity of the Damper pedal.

Pedal/Switch Polarity

Polarity of the Assignable pedal or footswitch.

Controllers: Assignable Sliders

This page lets you program the Assignable Sliders. Two sets are available (Assignable Sliders A and Assignable Sliders B). You can assign the preferred set by using the SLIDER MODE button on the control panel, respectively selecting the ASSIGNABLE A or ASSIGNABLE B mode. The status of the SLIDER MODE button can be saved with the Performance or STS.



GLOBAL: Controllers	
Assignable Sliders A	Assignable Sliders B
1: 🕨 Keyboard Expression	1: 🕨 Off
2: 🕨 Upper VDF Cutoff	2: 🕨 Off
3: 🕨 Upper VDF Resonance	3: 🕨 Off
4: 🕨 Mic In Volume	4: 🕨 Off
5: 🕨 Voice Proc. Cnt.Ct1 A	5: 🕨 Off
6: 🕨 Voice Proc. Cnt.Ct1 B	6: 🕨 Off
7: 🕨 Voice Proc. Cnt.Ctl C	7: 🕨 Off
8: 🕨 Voice Proc. Cnt.Ct1 D	8: 🕨 Off
Pedal Assign. EC5	

See "List of Assignable Pedal and Assignable Sliders functions" on page 372 for a list of the assignable functions. The first functions are switch-type functions, while the remaining (starting from Master Volume) are continuous-like functions. Only continuous functions can be assigned to the sliders.

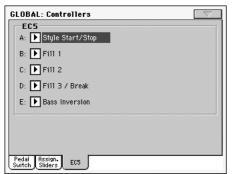
Assignable Sliders A 1-8, B 1-8

► GBL^{Gbl}

Function assigned to the corresponding slider on the control panel.

Controllers: EC5

This page lets you program each of the five switches of the KORG EC5 multiswitch controller.



See "List of Footswitch and EC5 functions" on page 371 for a list of the assignable functions. The first functions are switch-type functions, while the remaining (starting from Master Volume) are continuous-like functions. Only switch functions can be assigned to the EC5 switches.

ЕС5-А...Е

▶ GBL^{Gbl}

Each of the switches of a KORG EC5 multiswitch.

MIDI: MIDI Setup / General Controls

This page allows you to select a MIDI Setup, convert ordinary notes to RX Noises, and set global parameters for the MIDI communication.



Current MIDI Setup

MIDI Setup

► GBL^{Sty} ► GBL^{Sng} ► GBL^{Seq}

MIDI channels can be automatically configured by selecting a MIDI Setup. Each of them lets you assign the best values to various MIDI parameters, to allow an easier connection with a particular MIDI controller. See "MIDI" on page 273 for more information on using MIDI Setups.

A different MIDI Setup may be automatically selected when entering the Style Play, Song Play or Sequencer modes. To select a MIDI Setup for these modes, see "Midi Setup" on page 94 for the Style Play mode, "Midi Setup" on page 149 for the Song Play mode, and "Midi Setup" on page 181 for the Sequencer mode. For detailed information on MIDI Setup settings, see "MIDI Setup" on page 321.

Note: After selecting a MIDI Setup, you can apply any changes to each channel's settings. To store the changes in memory, select the Write Global-Midi Setup command in the page menu to save it to memory (see "Write Global - Midi Setup dialog box" on page 251).

Hint: To restore the original MIDI Setups, load the original Factory data again (downloadable from <u>www.korgpa.com</u>).

Note to RX Noise

RX Noises are special sounds that make Sounds be more realistic. They are usually located above C7, depending on the Sound.

Enable

When this parameter is turned on, notes received from MIDI in the RX Noises range are recognized. When off, notes are not received.

Note: This parameter is automatically turned off when turning the instrument on again.

General Controls

Use these parameters to set MIDI Clock, Local Off, and MIDI OUT ports.

Clock Send

Use this parameter to turn the clock information on the MIDI OUT on or off. This parameter is common to all MIDI Setups.

Note: In Song Play mode, only the Sequencer 1 Tempo value will be sent to the MIDI OUT.

- Off The Pa1X cannot send the MIDI Clock signal. You cannot slave another instrument to the Pa1X, even when connected to the MIDI OUT.
- On The Pa1X can send the MIDI Clock signal. You can slave another instrument to the Pa1X Tempo, Start/Stop and Play/Stop commands. Connect the other instrument to the Pa1X MIDI OUT port.

Clock Source

This parameter selects the MIDI Clock source for the Style Play and Sequencer modes.

Note: In Song Play mode, the Internal clock is always used.

Note: The Clock parameter is always set to "Internal" each time you turn the instrument on.

- Internal Internal, i.e. the clock generated by the Pa1X Sequencer 1 internal metronome.
- MIDI A External from MIDI IN A. In Style Play or Sequencer mode, the Pa1X is slaved to an external device, connected to its MIDI IN port. The Start/ Stop and Play/Stop commands, as well as the metronome tempo, cannot be selected from the control panel of the Pa1X. Use the external device to set the tempo and start or stop the sequencer or arranger.
- MIDI B As above, but referred to MIDI IN B.

► GBL^{Mid}

The Local parameter turns the keyboard on or off.

Note: The Local parameter is automatically reactivated each time you turn the instrument on.

On	When you play the keyboard, MIDI data is sent to
	the internal sound generator. If tracks are
	assigned to a MIDI OUT channel, data is also
	sent to the MIDI OUT port.

Off The keyboard is connected to the MIDI OUT, but cannot play the internal sound generator.

This is very useful when working with an external sequencer, to send notes and various MIDI messages from the integrated keyboard and controllers to the external sequencer, and then let the sequencer send them back to the sound generator, without overlapping. See the MIDI chapter.

MIDI A Out/Thru Mode

MIDI B Out/Thru Mode

Use these radio buttons to define if the MIDI OUT connector must work as OUT or THRU connectors. (OUT ports send data generated by the Pa1X, while THRU connectors send the same data received on the MIDI IN port).

MIDI: MIDI In Control

This page lets you program general parameters for the MIDI IN, like the Chord Recognition channel and MIDI parameters for the Voice Processor.

GLOBAL: MIDI	
Midi In Controls	
Midi In Octave Transpose 🦳 Midi In Mute/Unmute	
Chord 1 Midi Channel: Off Upper Octave Transp.: 0	
Chord 2 Midi Channel: Off Lower Octave Transp.: Ø	
Midi In Velocity Value: <u>Normal</u>	
Voice Processor Midi Controls	
Midi In Channel: <u>1</u> In Note Range-High: <u>59</u>	
Octave Transp. In: <u>+1</u> In Note Range-Low: <u>Ø</u>	
Setup Midi In Midi In Midi Out Filters	

Midi In Controls

Midi In Octave Transpose

► GBL^{Mid}

▶ GBL^{Mid}

▶ GBL^{Mid}

▶ GBL^{Mid}

Use this parameter to determine if the Octave Transpose is applied also to notes received on the MIDI IN.

- On Notes received on the MIDI IN are transposed according to the Octave Transpose setting for each track.
- Off Data received on the MIDI IN are not transposed.

Midi In Mute/Unmute

Use this parameter to determine if a muted track can still play data received via MIDI.

On	No data received via MIDI on a muted track can be played by Pa1X.
Off	Data received via MIDI on a muted track can still play on the Pa1X.

Chord 1 Midi Channel

Chord 2 Midi Channel

Notes entering these channels are sent to the Chord Recognition engine.

There are two separate Chord channels. This is very useful when you must send chords to Pa1X on two different channels (like with some MIDI accordions).

Upper Octave Transp (Transpose)

Octave transposition of data received on the MIDI IN for the Upper tracks. For example, if you select the +1 value, a received C4 will play a C5 on the Pa1X.

This parameter may be useful to many MIDI accordion players, whose MIDI interface may transmit on an unexpected octave.

Lower Octave Transp (Transpose)

► GBL^{Mid}

▶ GBL^{Mid}

▶ GBL^{Mid}

Octave transposition of data received on the MIDI IN for the Lower track. For example, if you select the +1 value, a received C4 will play a C5 on the Pa1X.

This parameter may be useful to many MIDI accordion players, whose MIDI interface may transmit on an unexpected octave.

Midi In Velocity Value

► GBL^{Mid}

Use this parameter to set a fixed velocity (dynamics) value for all received MIDI notes. This is useful when playing the Pa1X with an organ or a MIDI Accordion.

Normal	Normal velocity values are received.
40127	All received velocity values are converted to the selected value.

Voice Processor Midi controls

Midi In Channel

► GBL^{Mid}

▶ GBL^{Mid}

Reference

Notes received on this channel are sent to the Harmony section of the Voice Processor.

Octave Transpose In

Octave transpose for all notes received via MIDI by the Harmony section of the Voice Processor.

In Note Range-High

In Note Range-Low

▶ GBL^{Mid}

▶ GBL^{Mid}

These parameters are the lowest and highest notes received by the Harmony section of the Voice Processor. Notes received out of this range are not recognized.

MIDI: MIDI In Channels

In this page, you can assign Pa1X tracks to any of the MIDI IN channels.

GLOBAL: MIDI	
Midi In Channels	
Ch01: 🕨 Upper 1	Ch09: 🕨 Bass
Ch02: 🕨 Upper 2	Ch10: 🕨 Drum
Ch03: 🕨 Upper 3	Ch11: 🕨 Percussion
Ch04: 🕨 Lower	Ch12: 🕨 Acc 1
Ch05: 🕨 Global	Ch13: 🕨 Acc 2
Ch06: 🕨 Off	Ch 1 4: 🕨 Acc 3
Ch07: 🕨 Off	Ch15: 🕨 Acc 4
Ch08: 🕨 Off	Ch16: 🕨 Acc 5
Setup Midi In Midi Out Filters	

Channels

► GBL^{Mid}

You can assign to each channel one of the following tracks:

Off	No track assigned.	
Lower	Lower track.	
Upper 13	One of the Upper tracks.	
Drum	Drum track.	
Percussion	Percussion track.	
Bass	Bass track.	
Acc 15	One of the Auto-accompaniment tracks.	
Seq.1 Tr 011	6	
	One of Sequencer 1 tracks.	
Seq.2 Tr 011	6	
	One of Sequencer 2 tracks.	
Global	Special channel to simulate the Pa1X's in	

- Global Special channel to simulate the Pa1X's integrated controls (keyboard, pedals, joystick) with an external keyboard or controller. MIDI messages coming on this channel are seen as if they were generated by Pa1X's integrated controllers.
- Control On this special channel, the Pa1X receives MIDI messages to remotely select Styles, Performances, STS and Style Elements. See tables on page 280 and following for more information on the received data

MIDI: MIDI Out Channels

In this page, you can assign Pa1X tracks to any of the MIDI OUT channels.

GLOBAL: MIDI	
-Midi Out Channels	
Ch01: 🕨 Seq.1 Tr 01	Ch09: 🕨 Seq.1 Tr 09
Ch02: 🕨 Seq.1 Tr 02	Ch10: 🕨 Seq.1 Tr 10
Ch03: 🕨 Seq.1 Tr 03	Ch11: 🕨 Seq.1 Tr 11
Ch04: 🕨 Seq.1 Tr 04	Ch12: 🕨 Seq.1 Tr 12
Ch05: 🕨 Seq.1 Tr 05	Ch13: 🕨 Seq.1 Tr 13
Ch06: 🕨 Seq.1 Tr 06	Ch14: 🕨 Seq.1 Tr 14
Ch07: 🕨 Seq.1 Tr 07	Ch15: 🕨 Seq.1 Tr 15
Ch08: 🕨 Seq.1 Tr 08	Ch16: 🕨 Seq.1 Tr 16
Setup Midi In Midi In Midi Out Filters	

Channels

► GBL^{Mid}

You can assign to each channel one of the following tracks:

Off No track assigned. Lower Lower track. Upper 1...3 One of the Upper tracks. Drum Drum track. Percussion Percussion track. Bass Bass track. Acc1...5 One of the Auto-accompaniment tracks. Seq.1 Tr 01...16 One of Sequencer 1 tracks. Seq.2 Tr 01...16 One of Sequencer 2 tracks. Seq.1/2 Tr 01...16 Use these channels to send data generated by a track with the same name on either or both onboard sequencers at the same time. Chord Use this channel to send notes recognized by the

Chord Recognition engine to the MIDI OUT. This is useful, for example, to control an external Harmonizer from the Pa1X, using the Lower track to play chords, even if the track is muted.

MIDI: Filters

Use this page to set up to 8 filters for the MIDI data received or sent by the Pa1X.

GLOBAL: MIDI	
Midi In Filters	Midi Out Filters
1: 🕨 Sys. Excl.	1: 🕨 Sys. Excl.
2: 🕨 Off	2: 🕨 Off
3: 🕨 Off	3: 🕨 Off
4: 🕨 Off	4: 🕨 Off
5: 🕨 Off	5: 🕨 Off
6: 🕨 Off	6: 🕨 Off
7: 🕨 Off	7: 🕨 Off
8: 🕨 Off	8: 🕨 Off
Setup Midi In Midi In Midi Out Gen.Ctl Control Channel Channel Filters	

Midi In Filters

Selected MIDI IN filters.

Off	No filter.
Pitch Bend	Pitch Bend.
MonoTouch	Mono (or Channel) After Touch.
PolyTouch	Poly After Touch.
PrgChange	Program Change.
SysExcl	System Exclusive.
All CC	All Control Change messages.
0127	Control Change message #0127. See "MIDI Controller" on page 376 for a list of available Control Change messages.

Midi Out Filters

► GBL^{Mid}

▶ GBL^{Mid}

Selected MIDI OUT filters. See above for information on each filter type.

Audio Output: Sty/Kbd

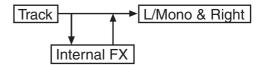
This page lets you connect Style, Keyboard and Pad tracks to the audio outputs.

GLOBAL: Audio Output	
Style Tracks	Kbd/Pad Tracks
Drum: 🕨 Left+Right	Upper1: 🕨 Left+Right
Perc.: 🕨 Left+Right	Upper2: 🕨 Left+Right
Bass: 🕨 Left+Right	Upper3: 🕨 Left+Right
Acc1: 🕨 Left+Right	Lower: 🕨 Left+Right
Acc2: 🕨 Left+Right	Pad1: 🕨 Left+Right
Acc3: 🕨 Left+Right	Pad2: 🕨 Left+Right
Acc4: 🕨 Left+Right	Pad3: 🕨 Left+Right
Acc5: 🕨 Left+Right	Pad4: 🕨 Left+Right
Style Orat Dours Down	A r + Metro MP3
Kbd Seq1 Seq2 Drums	Audio In S/PDIF CD

Tracks

► GBL^{Gbl}

Use these parameters to assign an audio output (OUTPUT section, on the back of the instrument) to each track. Left + Right The selected track is connected to the Left & Right outs, in stereo. The track is also sent to the Internal FX processors (A and B for the Style tracks, C and D for the Keyboard and Pad tracks). You can set the volume using the MASTER VOL-UME slider.



Out 1 + 2 The track is connected to the 1 & 2 sub-outs, in stereo. It is not sent to the Internal FX processors. The MASTER VOLUME slider has no effect on it.



The selected track is connected to the sub-out 1. It is mixed to mono. It is not sent to the Internal FX processors. The MASTER VOLUME slider has no effect on it.



The selected track is connected to the sub-out 2. It is mixed to mono. It is not sent to the Internal FX processors. The MASTER VOLUME slider has no effect on it.



Audio Output: Seq1

This page lets you connect Sequencer 1 tracks to the audio outputs. These setting are also applied to the Sequencer mode.

GLOBAL: Audio Output	
Sequencer 1	
Track 1: 🕨 Left+Right	Track 9: 🕨 Left+Right
Track 2: 🕨 Left+Right	Track10: 🕨 Left+Right
Track 3: 🕨 Left+Right	Track11: 🕨 Left+Right
Track 4: 🕨 Left+Right	Track12: 🕨 Left+Right
Track 5: 🕨 Left+Right	Track13: 🕨 Left+Right
Track 6: 🕨 Left+Right	Track14: 🕨 Left+Right
Track 7: 🕨 Left+Right	Track15: 🕨 Left+Right
Track 8: 🕨 Left+Right	Track16: 🕨 Left+Right
Style of one of o	A r . Metro MP3
Kbd Seq1 Seq2 Drum	s Audio In Metro MP3

Tracks

Out 1

Out 2

► GBL^{Gbl}

Use these parameters to assign an audio output (OUTPUT section, on the back of the instrument) to each track.

See "Audio Output: Sty/Kbd" on page 233 for more information.

Audio Output: Seq2

This page lets you connect Sequencer 2 tracks to the audio outputs.

GLOBAL: Audio Output	
Sequencer 2	
Track 1: 🕨 Left+Right	Track 9: 🕨 Left+Right
Track 2: 🕨 Left+Right	Track10: 🕨 Left+Right
Track 3: 🕨 Left+Right	Track11: 🕨 Left+Right
Track 4: 🕨 Left+Right	Track12: 🕨 Left+Right
Track 5: 🕨 Left+Right	Track13: 🕨 Left+Right
Track 6: 🕨 Left+Right	Track14: 🕨 Left+Right
Track 7: 🕨 Left+Right	Track15: 🕨 Left+Right
Track 8: 🕨 Left+Right	Track16: 🕨 Left+Right
Style Seq1 Seq2 Drums	Audio In S/PDIF CD

Tracks

▶ GBL^{Gbl}

Use these parameters to assign an audio output (OUTPUT section, on the back of the instrument) to each track.

See "Audio Output: Sty/Kbd" on page 233 for more information.

Audio Output: Drums

This page lets you route Drum Kit Sounds to the audio outputs.

GLOBAL: Audio Output		
Drum Output		
Track		
🔿 Drum Category		
Drum Category		
Kick: 🕨 Left+Right	Cymbals: 🕨 Left+Right	
Snare: 🕨 Out1+2	Perc.1: 🕨 Left+Right	
Tom: 🕨 Left+Right	Perc.2: 🕨 Left+Right	
Hi-Hat: 🕨 Left+Right	Perc.FX: 🕨 Left+Right	
Style Seq1 Seq2 Drums Audio In Metro MP3 CD		

See "Audio Output: Sty/Kbd" on page 233 for more information about the available audio outputs.

Drum Output

► GBL^{Gbl}

This parameter lets you decide if Drum Kit Sounds will be sent to the single output (or output pair) defined for the track they are assigned to, or each drum category will be sent to a different output.

Track When this option is selected, Drum Kits will be sent to the output selected in one of the previous pages for the tracks they are assigned to.

Drum Category

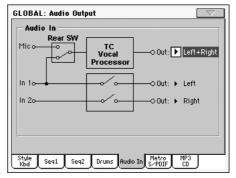
When this option is selected, you can select a different output for each category of Drum Kit sounds. Use the "Drum Category" box below, to select an output for each category of percussive sounds.

Drum CategoryKickBass Drum category.SnareSnare Drum category.

Snare	Snare Drum category.
Tom	Tom category.
Hi-Hat	Hi-Hat category.
Cymbals	Cymbals category.
Perc.1	Low-pitched percussion category.
Perc.2	High-pitched percussion category.
Perc. FX	Sound FX category.

Audio Output: Audio In

This page lets you connect the Audio Inputs and the Voice Processor to the audio outputs.



See "Audio Output: Sty/Kbd" on page 233 for more information on the available audio outputs.

Rear SW (SELECT switch)

The status of this switch, located on the rear panel, is shown by the Rear SW diagram. From its status depends the routing of the Audio In signal.

- When set to "MIC", the MIC input goes to the Voice Processor, while line inputs 1 and 2 are directly connected to the Left and Right outputs.
- When set to "1", line input 1 goes to the Voice Processor, while line input 2 and the MIC input are deactivated.

Mic

The microphone input is alternative to the line input In 1, depending on the status of the SELECT switch on the rear panel. When selected, the signal coming from a connected microphone goes to the Voice Processor, then is output in stereo together with any processing made inside the Voice Processor.

In 1

The line input In 1 may be routed to the Left output, or to the Voice Processor, depending on the status of the SELECT switch on the rear panel.

- If the SELECT switch it is set to "MIC", this input is sent to the Left output.
- If the SELECT switch is set to "1", it is sent to the Voice Processor.

In 2

The line input In 2 may be routed to the Right output, or deactivated, depending on the status of the SELECT switch on the rear panel.

- If the SELECT switch it is set to "MIC", this input is sent to the Right output.
- If the SELECT switch is set to "1", it is deactivated.

Voice Processor Out

▶ GBL^{Gbl}

Use this parameter to assign an audio output (OUTPUT section, on the back of the instrument) to the Voice Processor.

In 1/2 Out

Non editable. These output are fixed, and cannot be changed.

Audio Output: Metro / S/PDIF

This page lets you define various parameters for the Metronome, the S/PDIF output, and the Speakers (for the Pa1X with integrated speakers).

GLOBAL: Audio Output	\Box
Metronome Mode: Dff Volume: 110	
Click Out: 🕨 Left+Right	
S/PDIF Out	
S/PDIF On/Off	
Speakers	
Speakers On/Off	
Style Seq1 Seq2 Drums Audio In S/PDIF CD	·

Metronome

Mode

► GBL^{Gbl}

Use this parameter to activate the metronome for the Style Play and/or Song play operating modes.

Off	No metronome is heard.	
Style	The metronome is always activated when play a Style.	ying
Song	The metronome is always activated when play a Song.	ying
Style+Song	The metronome is always activated when play a Style or Song.	ying
Volume	►G	BL ^{Gbl}

Use this parameter to set the volume of the metronome.

Click Out

► GBL^{Gbl}

The metronome's click can be routed to any audio output.

Hint: When sending the click to your drum player, we suggest to select one of the sub-outs Out 1 and 2, to avoid it is sent to the audience through the Left+Right outputs.

Note: The selected Metronome Mode must not be Off, in order for the click to be sent to an audio output during playback.

See "Tracks" on page 233 for detailed information on the available outputs.

S/PDIF Out

S/PDIF On/Off

Use this parameter to turn the S/PDIF digital audio output on or off.

Note: This parameter is automatically set to Off each time you turn the instrument on.

On

All tracks set to be sent to the Left+Right audio outputs (see from page 233) are sent to the S/ PDIF output. Together with the audio signal, the Word Clock sync signal is also output, with a frequency of 48kHz.

> When in this mode, the Pa1X becomes the Word Clock master. No other master device can be connected to the same digital audio system. Please, refer to the connected audio device (mixer, audio card...) for information on how to set it as a Word Clock slave.

Off No signal is sent to the S/PDIF output.

Speakers

Speakers On/Off

Not available on the Pa1X Pro. On a Pa1X with integrated speakers, use this checkbox to turn speakers on or off. This option is useful when the instrument is connected to an external amplification system, and you don't need the speakers.

Audio Output: MP3/CD

In this page you can program the MP3 (EXBP-MP3) and Audio CD (CDRW-1) options.

Max	Volume[:	%]: <u>100</u>	_	
CD	Audio -			
Max	Volume[:	%]: <u>100</u>	_	

MP3 Board

This section only appears when the optional EXBP-MP3 board has been installed.

Reference

▶ GBL^{Gbl}

Max Volume

► GBL^{Gbl}

► GBL^{Gbl}

Use this parameter to set the maximum volume of the MP3 Player.

Audio Out

This (non-editable) parameter shows the fixed output for the MP3 Player (Left+Right).

CD Audio

This section only appears when the optional CDRW-1 CD drive has been installed.

Max Volume

Use this parameter to set the maximum volume of the Audio CD Player.

Audio Out

► GBL^{Gbl}

► GBL^{Gbl}

This (non-editable) parameter shows the fixed output for the Audio CD (Left+Right).

Voice Processor Setup: Setup

In this page you can select a Voice Processor Setup, and set some general parameters for the current Setup.

GLOBAL: Yoice Processor Setup Setup Yoice Proc. Setup: Ø1 - Default Harmony Settings Vibrato Mode: Boost Octave Transpose: Pitch Bend Range [st]: 2 Damper Mode: Off Setup Lead Upne Talk

Setup

Voice Processor Setup

Use this parameter to select a Voice Processor Setup.

Setup parameters are global and do not change when a different preset is recalled. Setup parameters are all the parameters found in the Voice Processor Setup edit section, including Lead input level and pan, Compression/Gate, and EQ parameters among many others.

They are parameters that would typically be set for a given situation based on the singer, microphone or studio configuration and then left that way as a basis for the presets within the Voice Processor. If you change your microphone (or singer!) the EQ/ Compression settings need to only be adjusted once in the setup section.

If you wish to save your setup settings, just select the "Write Global-Voice Processor Setup" command from the page menu (see page 251).

Harmony Settings

These parameters are general settings for the Harmony section voices, that are saved on the Voice Processor Setup.

Vibrato Mode

► GBL^{VPs}

► GBL^{VPs}

► GBL^{VPs}

This parameter sets whether the vibrato follows the onset and attack of the model (Boost) or is instantaneous (Manual). The joystick controls the vibrato in both modes.

BoostThe preset value for each voice (see "Vibrato
Amount" on page 244) is boosted when moving
the joystick.ManualVibrato starts from a value of 0, and is fully con-
trolled by the joystick.

Vibrato Rx Enable

This parameter lets you turn vibrato reception on or off.

Octave Transpose

This transposes the harmony voices in Notes mode (see "Harmony Mode" on page 242). The value corresponds to octaves. This is useful when used in conjunction with "In Note Range-High" and "In Note Range-Low" parameters (see page 231).

When receiving notes from MIDI, this value is summed to the value of the "Octave Transpose In" parameter, found in the "MIDI: MIDI In Control" page (see page 231).

Pitch Bend Range

► GBL^{VPs}

Only available in Notes mode. Sets in semitones the range that MIDI pitch bend information will alter the pitch of the harmonies in Notes mode.

Damper Mode

Use this parameter to define the effect of the Damper pedal on the Voice Processor. The Damper message can be received from the Damper pedal connected to the DAMPER jack, or from the MIDI IN (CC#64).

Off Damper disabled.

Sustain Notes sent to the Voice Processor are sustained as long as the pedal is kept pressed. Therefore, chords sent to the Harmony section do not change until the pedal is released or a different chord is recognized.

Harmony Hold

Harmony voices are sustained while you continue to sing through them. On activation (press and hold the Damper pedal), you can freeze whatever the harmony voices are doing, and they will hold their notes (in a very natural way) until you let go.

Note: The Harmony Hold function can also be assigned to an Assignable Footswitch or Switch.

► GBL^{VPs}

JOysuc

Voice Processor Setup: Lead Voice

GLOBAL: Voice Processor Setup

Delau Compensation

Dyn. EQ Talk

Lead Voice

Mic Input

Low Cut: 🕨 Off

This page lets you adjust parameters for the Lead voice (i.e., the singer's voice).

 \odot

Mic Input

Low Cut

Low cut filter. 12dB per octave. Cutoff frequency options include 60, 80 and 120 Hz.

Delay Compensation

Setup

Turning this on delays the lead vocal so that the humanized harmony voices will be randomly ahead and behind the lead voice. Turning this off results in minimum lead voice processing delay.

Pan/Volume

Pan knob

Adjusts panning for the lead voice. L64 (panned fully left) to R63 (panned fully right).

Level knob

This parameter sets the Lead Voice level.

- DryOff This setting mutes the dry input vocal, but allows the thickening voices to pass through the unit as if the lead level was set to 0dB.
- Off Lead Voice is turned off.

-30dB ... 0dB Lead Voice level.

Voice Processor Setup: Dynamics / EQ

In this page you can adjust parameters for the Compressor/Gate and Equalizer, applied to the Lead and Harmony voices.



Assign

Dyn

► GBL^{VPs}

► GBL^{VPs}

Reference

Compressor/Gate assignment. The options are Off, Lead + Harmony, Harmony or Lead. The compressor has auto-makeup gain, so there are no output levels problems when selecting a different option.

EQ

EQ assignment. The options are: Off, Lead + Harmony, Harmony or Lead.

Dynamics

The Voice Processor has dynamics processing optimized for vocals.

Thresh knob	► GBL ^{VPs}
Compressor Threshold. Range: 0 to -60 dB.	
Ratio knob Compression ratio. Range: 1.1:1 to 64:1.	► GBL ^{VPs}
Gate knob	► GBL ^{VPs}

Gate Threshold. Range: Off, -70dB to 0dB

EQ

The Voice Processor has an extremely flexible 3-band EQ with frequency and gain-adjustable high and low shelving bands, as well as a fully parametric band with Q control.

Low Gain knob

Low Shelving Frequency cut/boost. Range: ±12 dB.

Low Frequency knob

► GBL^{VPs}

► GBL^{VPs}

Low Shelving Frequency center frequency. Range: 80Hz...16kHz.

► GBL^{VPs}

► GBL^{VPs}

► GBL^{VPs}

► GBL^{VPs}

Mid Gain knob	► GBL ^{VPs}		
Mid Band Frequency cut/boost. Range: ±12 dB.			
Mid Frequency knob	► GBL ^{VPs}		
Mid Band Frequency center frequency. Range: 80Hz16kHz.			
Mid Q knob	► GBL ^{VPs}		
Resonance of the midband. Range is .1 (wide band) to narrow band).	10 (very		
High Gain knob	► GBL ^{VPs}		
High Shelving Frequency cut/boost. Range: ±12 dB.			
High Frequency knob			
	► GBL ^{VPs}		
High Shelving Frequency center frequency.	Range:		

Voice Processor Setup: Talk

80Hz...16kHz.

This page is where you can set the Talk function, to be used to address the audience, speaking over the background music. Parameter contained in this page are relative to programming parameters, and are used to attenuate the music when speaking.



Talk

Talk

On/off switch for the Talk function. This is the same you can find in the Mic panel of the Style Play and Song Play modes.

Mode

Auto (AutoTalk)

When this parameter is checked, the Talk function automatically engages when the Sequencer or Arranger is stopped. This way, you can talk to the audience between two songs, without the need to press the Talk On/Off button.

Mixer

Ld to Rv (Lead to Reverb) knob

Use this knob to attenuate the reverb applied to the lead voice. 0dB corresponds to no attenuation.

FX Lev (FX Level) knob

Use this knob to attenuate the effects level. 0dB corresponds to no attenuation.

Master Volume Attenuation knob ► GBL^{TIk}

Use this knob to reduce the master volume. 0dB corresponds to no level reduction.

Reverb

Туре

Use this parameter to choose a reverb to be automatically selected when turning the Talk function on.

PreDly (Pre Delay)

Use this parameter to delay the reverb, and separate it from the lead voice. With higher values, reverb may be perceived as an echo.

Decay

Use this parameter to set the reverb's decay time (in seconds). The higher this value, the more difficult is to understand separate words.

Low Color

Reverb Low Color. Specifies the characteristics of the reverbs low frequencies.

High Color

Reverb High Color. Specifies the characteristics of the reverbs high frequencies.

Thicken

On/Off

This checkbox allows enabling/disabling of lead voice thickening parameters.

Det. (Detune)

Sets the amount of lead voice detuning.

Spread

► GBL^{TIk}

▶ GBL^{Tik}

► GBL^{TIk}

Sets the amount that the detuned voices are panned. A value of 100% results in the detuned voices being hard panned R and L. A value of 0% results in the detuned voices panned to center.

Level

Level knob

Use this knob to set the level of the voice thickening effect.

► GBL^{Tik}

▶ GBL^{Tik}

► GBL^{Tik}

► GBL^{TIk}

► GBL^{Tik}

► GBL^{Tik}

► GBL^{Tik}

► GBL^{Tik}

▶ GBL^{Tik}

▶ GBL^{Tik}

Voice Processor Preset: Preset

This page allows you to select a Voice Processor Preset, as well as turning on or off the various Voice processor modules.

GLOBAL: Yoice Proce	ssor Preset
Voice Proc. Preset:	001 – TC-Helicon 1 🔚
Harmony/Modeling	Select
Harmony	🔿 Voice Modeling 🛛 🐺 Buy info
- Harmony/Modeling	6 0 0
Lead 🔽 V1	V2 V3 V4
Master On/Off	hicken 🔲 Harm/Model 🔽 Effects
Preset Thicken Voice Pitch Modeling	Harmony Harmony Effects Controls

The 'Buy Info' buttons

Two optional software modules are available for the Voice Processor: Pitch Correction and Voice Modeling. These modules can be purchased sepa-



rately. Please see "Voice Processor: The optional Pitch Correction and Voice Modeling modules" on page 246 for more information on how to purchase them.

Using Pitch Correction and Voice Modeling in demo mode

Even if you have not yet bought the optional software modules, you can turn them on, and try them (with some limitations) before you buy.

While in demo mode, the audio signal will be interrupted every 30 seconds, and the "VP Demo" indicator will flash on top of the screen.

• To turn Voice Modeling on, select the corresponding radiobutton.

• To turn Pitch Correction on, check the Pitch parameter.

Preset

Voice Processor Preset

▶PERF ▶STS ▶STS^{SB}

Use this parameter to select a Voice Processor Preset. This Preset is saved when writing a Performance or STS to memory.

Preset parameters can be recalled by selecting a Performance or STS. They can be found in the Voice Processor Preset edit section, including Harmony Voice settings, Pitch Correction parameters, and Effect settings among many others.

If you wish to save your Preset settings, just select the "Write Global-Voice Processor Preset" command from the page menu (see page 251).

Harmony/Modeling Select

Harmony/Voice Modeling

▶ GBL^{VPp}

Use this radio-button to select either the Harmony or the Voice Modeling modules. They cannot be used at the same time in the same Preset.

Note: The Voice Modeling module is optional, and may not be available in your instrument. Please contact your Korg distributor, or check on our site (<u>www.korgpa.com</u>), for information on this module.

Harmony On/Off

These are "switches" for the Lead voice and voices generated by the Harmony section.

Note: These parameter are the same found in the Mic panel of the main page of the Style Play and Song Play modes.

Lead

► GBL^{VPp}

This checkbox allows turning the lead voice On or Off, independent of the Lead Level knob in the Voice Processor Setup section (see "Level knob" on page 237). This is useful in creating presets where you want to hear harmony voices only.

Note: This parameter is only available when the Harmony section is turned on. If it is turned off, the Lead parameter is automatically set to On.

V1...V4

► GBL^{VPp}

These checkboxes allow turning each of the four Harmony Voices On or Off, independent of the Level knob in the Harmony Voice page (see "Level knob" on page 244).

This is the same as the "Voice On/Off" checkbox (see page 243).

Master On/Off

These are "switches" for the various Voice Processor sections.

Note: These parameter are the same found in the Mic panel of the main page of the Style Play and Song Play modes.

Pitch

This checkbox allows the enabling/disabling of the Pitch Correction module (*available as an option*).

Thicken

► GBL^{VPp}

▶ GBL^{VPp}

This checkbox allows the enabling/disabling of the Thicken module.

Harmony/Modeling

This checkbox allows the enabling/disabling of the Harmony or Voice Modeling module (*available as an option*).

Effects

This checkbox allows the enabling/disabling of the Voice Processor Effects module.

► GBL^{VPp}

▶ GBL^{VPp}

Voice Processor Preset: Thicken / Pitch

This page contains parameters for the Thicken and the Pitch Correction module (*Pitch Correction available as an option – see* "Voice Processor: The optional Pitch Correction and Voice Modeling modules" on page 246).

GLOBAL: Yoi	ice Processor	Preset	
Thicken -			-Level -
On/Off	Det. [ct]: 25	Spread [%]: <u>100</u>	edB
Pitch Cor	rection		
On/Off	🐨 Buy info	Attack [%]:	0
Root:	▶ C	Amount [%]:	0
Scale Type:	🕨 Maj	Window [cents]]: 0
C Custom:	C# D D# E	F F# G G# A A	ŧ в
Preset Thicker Pitch	n Voice Modeling Harmor	ny Harmony Effects Con	itrols

Thicken

Thickening makes the Lead voice thicker, by adding two "ghost" voices to the singer's voice.

On/Off ► GBL^{VPp}

This checkbox allows enabling/disabling of lead voice thickening parameters. It is the same control found on the "Preset" page.

Sets the amount of lead voice detuning.

Spread

► GBL^{VPp}

► GBL^{VPp}

Sets the amount that the detuned voices are panned. A value of 100% results in the detuned voices being hard panned R and L. A value of 0% results in the detuned voices panned to center.

Level

Level knob

Sets the volume level of the lead voice thickening effect.

Pitch Correction

Available as an option – see "Voice Processor: The optional Pitch Correction and Voice Modeling modules" on page 246.

The Voice Processor will listen to the pitch of your voice, compare it to the selected correction scale, and then apply pitch correction in realtime. The amount of correction applied is governed by the various amount and timing settings available.

Pitch correcting your lead voice not only makes for great sounding lead vocals, it can also benefit your harmonies in that the pitch correction is applied prior to harmony voice generation.

Pitch Correction On/Off

► GBL^{VPp}

Check this parameter to turn Pitch Correction on. This is the same as the "Pitch" parameter in the Preset page (Voice Processor Preset section), and in the Mic panel of the Style Play and Song Play modes (main page).

Root

Pitch Correction scale root.

Scale Type

Pitch Correction scale type: Major, Minor-Natural (natural minor), Minor-Harmonic (harmonic minor), Minor-Ascending (ascending melodic minor), Chromatic and Custom. This setting, in combination with Root, determines which notes your input vocal will be corrected to.

Attack

Pitch Correction attack rate. Sets the responsiveness of the correction. 0% is slow, and 100% is fast. Settings of between 16% and 40% give the most transparent pitch correction. High settings can give you a robotic sounding effect.

Amount

Pitch Correction Amount. Scales the amount of automatic correction applied to the input voice. The range is 0% to 100%. However, 0% does not mean that the correction is turned off. The amount of applied correction depends on how far out of tune the input note is. This allows for a very musical way of correcting pitch. It corrects the large pitch errors while preserving the natural micro variations around the target pitch. For example:

- With the amount set to 100%, a 10 cent flat input will be corrected by 10 cents and a 50 cent flat input will be corrected by 50 cents.
- With the amount set to 80%, a 10 cent flat input will be corrected by approximately 5 cents and a 50 cent flat input will be corrected by approximately 40 cents.
- With the amount set to 0%, a 10 cent flat input will not be corrected and a 50 cent flat input will be corrected by approximately 10 cents.

Window

Correction Window. Specifies the maximum distance (above or below) in cents an out-of-tune note can be from the closest correction note and still be corrected. A very small window setting will cause correction to occur only when the singer is singing very close to the correct pitch. The maximum window size is 200 cents or a whole tone above and below the target pitch.

Custom Scale

This diagram, available when the Custom Scale Type is selected, provides a chromatic list of notes beginning with the scale root. Checkmarks indicate which notes are in the pitch correct scale and which are ignored. No checkmark means that the note is ignored. Modified (custom) scales are stored with presets.

► GBL^{VPp}

► GBL^{VPp}

▶ GBL^{VPp}

▶ GBL^{VPp}

▶ GBL^{VPp}

► GBL^{VPp}

Voice Processor Preset: Voice Modeling

Available as an option – see "Voice Processor: The optional Pitch Correction and Voice Modeling modules" on page 246.

Note: The Voice Modeling module is alternative to the Harmony module. They cannot be both active at the same time. Go to the Preset page (Voice Processor Preset section) to select the Voice Modeling option and make parameters in this page editable.

This page allows you to enable/disable, and edit, the Voice Modeling parameters.

GLOBAL: Yoice	e Processor Pres	et 🔽
- Yoice Mode	ling (Demo) —	
Resonance:	▶ Transmute 1	Amt: 0
Spect ral:	Lo Cut	Amt: Ø
Growl:	🕨 Light Breath	Amt: 0
Inflection:	▶ Up Fast Often	Amt: Ø
Vibrato:	🕨 Ballad	Amt: <u>0</u>
-Pan/Lev		
Level	Pan	
		🕎 Buy info
-11dB	C 99	
Preset Thicken Pitch	Voice Modeling Harmony Vo	mony ices Effects Controls

Voice Modeling is essentially realtime resynthesis and reshaping of the human voice. It offers a variety of ways in which to process the vocal input, including the ability to add breath, growl, rasp, head and chest resonance, inflection or vibrato.

The Voice Modeling can enhance or transform a voice. For example, a "thin" vocal into a "throaty" one, a "male" into a "female". Complete control is possible through various modeling parameters of the voice: Resonance, Spectral, Growl and Vibrato.

Note: You can use the Voice Modeled (VM) Lead voice together with the unprocessed Lead voice, by turning on the "Lead" parameter in the Preset page (Voice Processor Preset section).

Resonance

► GBL^{VPp}

ponent.

Resonance is how we model different vocal tract dimensions, and apply them to incoming vocals. Your favorite vocalists all have unique pitch and glottal characteristics. Resonance changes the tonal makeup of the sound by moving vocal formants, so that the Voice Modeled (VM) Lead voice sounds quite different than the original. Formants are the harmonic combinations that help make our voices unique.

The styles have been given names that are easily identified when assembling presets. The names may be associated with a particular genre of music or sound. This way, you can associate a certain modification with a name, similar to how we describe colors in a picture with names.

Some of the Resonance styles contain a built-in octave shift, either up or down. This is to accommodate a male singing in the female register, with a feminine timbre, or for a female to simulate a male singing voice. These Resonance styles enable you to sing in a natural range and still hit the notes of your opposite gender comfortably; they are Style settings Transmute.

The Amt (Amount) parameter allows you to dial in the relative strength of this effect on your VM voice; 0% for no effect, 100% for pure Resonance.

Spectral

► GBL^{VPp}

The Spectral control is a set of equalizer response curves intended to complement the Resonance selections. This equalization is different than those controlled via EQ in the Voice Processor Setup section. The Spectral styles reflect the natural equalization equivalent to the native control a singer has over his or her own voice. These modeled EQ curves are applied to the Voice Modeling (VM) voice. These styles may be used in conjunction with the resonances, or purely as additional tonal control over the VM voice.

The Amt (Amount) parameter allows you to dial in the relative strength of this effect on your VM voice; 0% for no effect, 100% for maximum effect.

Growl

▶ GBL^{VPp}

Growl refers to the combination of complex sounds the human voice can make to change non-pitched aspects of the vocal sound. Consider these examples: the cool breathy sound of a Jazz or Folk singer, the legendary warm grumble of Blues from the Mississippi Delta, the brazen sizzle of Rock and Alternative Rock or the growl of 60's Soul.

The Growl settings contain three types of effects: Breathiness, Rasp, and Growl, arranged in various combinations in the style library. All of these are set to create percussive and expressive textures in addition to the sung note. Experimentation is the key to finding styles that work in your scenario, or are difficult to create in your scenario. The last few entries contain extreme and unreal Growl styles – no longer need you burn out your throat night after night. Growl styles are created using the following parameters:

Breathiness factors in 'virtual air' that gives the effect of being close to a sensitive condenser microphone. This intimate sound may be used in some Jazz styles or for pop ballads, although its application is not limited to these. Breathiness may also be used to give a 'tired' or 'strained' sound, where the singer may be pushing a lot of air. You can also dial in 'whisper' or like textures to simulate a specific singer's style.

Rasp is an effect where the breath pushed through the throat cavity goes beyond mere breathiness, into a harsh sizzle or grind. These sounds are a combination of hard breath and friction in the larynx, which are difficult for many singers to reproduce and are very damaging on the vocal cords. You can use Rasp on your normal voice and achieve a grittier, rough delivery, sending a clean voice into an overdriven frenzy. In many forms of heavy rock music, this is an expressive and elusive performance com-

Growl describes another way that we can achieve Blues, Rock, or Rhythm & Blues sounds with our normal voice. Growl refers to a type of grind or friction of the larynx and epiglottis, usually heard in Soul, R&B, and Blues music. Some of the styles are sensitive to the dynamics of the lead voice, meaning that when you raise the volume of a syllable, the Voice Processor 'growls' on that syllable.

As with the other Voice Modeling effects, the Amt (Amount) parameter controls the level of effect incorporated into the signal.

Inflection

▶ GBL^{VPp}

The Inflection styles allow the singer to adjust the characteristics of 'scooping' to the sung note. This is a stylistic effect in singing where a singer sweeps up a variable range of pitch to rest on the intended note. The Inflection settings use the following nomenclature: Up/Down, Fast, Often.

Up/Down is the direction of Inflection – Up to a note, or Down to a note.

Fast is the speed at which the inflection 'scoops', either Slow, Medium or Fast.

Often is how regularly the Inflection occurs. The Voice Processor listens for an Onset period before applying Inflection to the beginning of the next phrase.

Vibrato

► GBL^{VPp}

► GBL^{VPp}

▶ GBL^{VPp}

Vibrato is a pitch effect that singers often use in their delivery of a piece of music. This effect is achieved by repeatedly altering the size of the mouth and vocal tract in a pattern that varies above and below a central pitch in an oscillating fashion.

The Vibrato styles are based on real vocalist's vibratos. We have analyzed a large set of parameters from a voice database and created various vibrato models. The Vibrato setting names reflect the style of the vocals from which they were extracted. However, a vibrato modeled from a style or gender different from yours can sound very good when applied to your voice. Experimentation is the key to finding a style setting that best suits your application. You might begin incorporating Vibrato into your sound by setting the Amt (Amount) control to 50%. This setting matches the depth level that we analyzed in our modeling subjects. You can then vary the effect from this middle range up or down to suit your taste.

Level

Use this knob to set the level of the modelled voices.

Pan

Use this knob to set the position in the stereo field of the modelled voices.

Voice Processor Preset: Harmony

In this page you can define general parameters for the Harmony module.

GLOBAL: Yoice Processor Preset 🛛 📃 🔽			
Harmony Harmony On/Off	Latch On/Off		
Harmony Mode: 🕨 Chord	Root: 🕨 C 🛛 Type: 🕨		
Human. Style: 🕩 ScpDwn	Amount [abs]: 0		
Tuning: 🕨 Equal	Portamento [ms]: 0		
PB Assign: 🕨 Off	Smooth [%]: 0		
Harm. Note Input Source: ▶ Chord Scan. Harm. Yoices Env. Level Attack: 0 Release: 0 0dB			
Preset Thicken Voice Harmony Harmony Effects Controls			

Harmony

Harmony On/Off

This checkbox allows enabling/disabling of the Harmony module. It is the same control found on the "Preset" page.

Latch On/Off

When enabled in Chord mode, the last chord played remains active after the notes have been released from the keyboard. When enabled in Notes mode, the harmony voices will only respond to note input when the number of notes being played equals the harmony voices enabled. This ensures logical voice assignment when voices change. When Latch is On, the envelope parameters Attack and Release are not applicable.

Harmony Mode

Change the current harmony mode. Available parameters: Scalic (Scalic presets), Chord (Chordal presets), Shift, and Notes (Shift and Notes presets).

See "Harmony and Tuning with the Voice Processor" on page 247 for a full description of each harmony mode.

Root > GBL^{VPp}

In Scalic presets this sets the scale root.

Type ► GBL^{VPp}

In Scalic presets this sets the scale type.

Human. (Humanization) Style

This is a list of humanization style types, each made up of a combination of FlextimeTM based time randomization, pitch randomization and pitch inflection (scoop).

Amount

The amount that the humanization style is applied to the harmony voices.

Tuning

This gives the option of either Equal temperament, Just intonation, or Barbershop tuning modes. See "Harmony and Tuning with the Voice Processor" on page 247 for a full description of each tuning mode.

Portamento

This is defined in milliseconds as the time to reach a target note when a harmony voice needs to change pitch.

PB Assign

Pitch Bend control assignment. Allows assignment of the pitch bend to Pitch (applicable in Notes and Chord harmony modes) or Gender.

Note: For this to work, a value different than zero must be assigned to the "Pitch Bend Range" in the "Voice Processor Setup: Setup" page (see page 236).

► GBL^{VPp}

► GBL^{VPp}

► GBL^{VPp}

▶ GBL^{VPp}

► GBL^{VPp}

▶ GBL^{VPp}

► GBL^{VPp}

▶ GBL^{VPp}

Smooth

Sets how much of the input pitch nuance is applied to the output voice. Not applicable to Shift presets.

Harmony Note Input

In Style Play and Song Play mode, when the Harmony track is set to Global, the Voice Processor's Harmony module can receive notes and chords from a source different than the Arranger's Chord Scanning area. This way, you can continue sending chords to the Arranger with your left hand, while, for example, sending chords or notes to the Harmony module with your right hand.

Source

► GBL^{VPp}

► GBL^{VPp}

This parameters allows you to select a source of notes or chords for the Harmony module of the Voice Processor.

Chord Scanning

With this option selected, notes or chords come from the same chord scanning area dedicated to the Arranger. (*This works exactly as in the previous versions of the operating system*).

- Lower Notes or chords come from the Lower area of the keyboard.
- Upper Notes or chords come from the Upper area of the keyboard.
- Full Keyb. Notes or chords come from the full range of the keyboard.

Harmony Voices Envelope

The envelope lets you set a different Attack and Release time for the harmony voices.

Note: The envelope can only work when the "Latch On/Off" parameter is turned off (see page 242).

Attack

Sets the envelope attack time for harmony voices. Available only in Notes and Chord mode.

Release

Sets the envelope release time for harmony voices. Available only in Notes and Chord mode.

Level

Level knob

Sets the overall harmony voices level.

Voice Processor Preset: Harmony Voices

The Voice Processor can add up to four Harmony Voices to the Lead voice. Here you can adjust parameters for each individual voice.

GLOBAL: Yoice Processor Preset			
- Individual Yoice Basic	Pan/Lev -		
Voice On/Off	Level	VI	
Gender: -32 🗑		Ø	
	-1dB	V2	Voice
Voicing: Dff	Pan	0	Select
Vibrato Style: 🕨 Ballad	- Ĝ	V3	button
Vibrato Amount: <u>+8</u>		Ő	buttorn
Custom Voice Mapping		V4	
Note In: 🕨 C 💦 Note Out: 🕨 UN I	Copy to	-	
Preset Thicken Voice Harmony Harmony E	ffects Controls		

Voice Select buttons

V1...V4

Use these buttons to select one of the four available voices for editing.

Individual Voice Basic

Voice On/Off

This checkbox allows enabling/disabling of the selected Harmony Voice. It is the same control found on the "Preset" page.

Gender

This parameter sets the formant of the Harmony Voice. Use it to alter the character of the voice ranging from -50 (a big person with a deep voice) to 0 (no change) to +50 (mice/alien sound).

Voicing

This parameter is used to set the voicing of the selected voice. This parameter means different things depending on the harmony mode of the preset.

Scale Mode Presets

In this mode the Voicing parameter specifies the interval of the harmony note with respect to the input note in the scale. The range of values goes from -8, which is 2 octaves below the input note, to ++8 which is two octaves above the input note, or Custom Map, which means custom voicing (See "Custom Voice Mapping" below). For example, a setting of +3 will result in a harmony voice a third above the input voice, related to the current scale.

Chord Mode Presets

In this mode the Voicing parameter specifies the relation of the harmony note to the input note with respect to the current chord. In Chord mode presets, the harmony voices are always notes in the chord. A setting of Up1 will result in the harmony voice being the next note above the input voice in the chord. For instance, if the chord was C Major and the input note was an E, an Up1 setting would produce a G harmony voice, just above the input E.

▶ GBL^{VPp}

► GBL^{VPp}

► GBL^{VPp}

► GBL^{VPp}

▶ GBL^{VPp}

▶ GBL^{VPp}

▶ GBL^{VPp}

The range of values goes from Down 5 to Unison to Up6. Additional values are Root1 and Root2 which give the root of the recognized chord as the harmony voice, and Bass1 and Bass2 (bass voicing) which give the lowest note received. Root2 and Bass2 are the higher pitch Root and Bass settings.

Shift Mode Presets

In this mode the voices are shifted relative to the input note. The values range from -24 semitones to +24 semitones.

Notes Mode Presets

In this mode there is no selectable voicing, since harmony voices exactly play received notes.

Vibrato Style > GBL^{VPp}

A list of Vibrato styles based on the analysis of real singers.

Vibrato Amount > GBL^{VPp}

The depth of vibrato applied to the voice.

Pan/Level

Level knob	► GBL ^{VPp}
------------	----------------------

Sets the output level of the selected voice. Please note that there is also a master harmony voice level found in the "Harmony" page.

Adjusts the pan for the selected voice. L64 (panned fully left) to R63 (panned fully right).

Custom Voice Mapping

This area is only available in Scalic Mode.

Scale mode harmonies are basically pitch maps. For each input note in a scale you can define a resulting harmony note. The Voice Processor has pre-defined pitch maps for all the offered scale roots, types, and intervals.

The Custom voicing feature allows you to create your own pitch maps. For example, you could define a pitch map so that a C input produces an E output and a D input produces an A output. The best way to work with custom voicing is as follows: • For a given harmony voice, select the scale root, type, and interval that most closely matches the desired voicing.

• Go to the "Note In" parameter and select the input note that requires a different harmony note.

• Go to the "Note Out" parameter and change the harmony note as desired.

• Select various other input notes and remap as desired. Repeat the above steps for each harmony voice. You can also copy a map from a voice to other voices.

• The custom map can be transposed under the Harmony page by changing the "Root" parameter.

► GBL^{VPp}

▶ GBL^{VPp}

Note In

Incoming note.

Note Out

Resulting note when applying the custom map.

- ±24 Number of semitones above or under the received note.
- UNI Unison. The same note received on the input is sent to the output.
- NC No Change. The harmony voice will keep its previous pitch until the lead voice pitch changes to a non "NC" note.

Copy to... button

Use this button to copy the current custom map to another voice. When you press the button, the Copy Custom Voice Mapping dialog box appears:

Copy Custom Yoice Mapping								
From	Voice 1							
To	Voice 1							
	Voice 2							
	Voice 3							
	Voice 4							
Cance	1	ОК						

Check all desired target voices, then press OK to confirm the copy.

Voice Processor	Preset: Effects
-----------------	-----------------

This page allows to adjust the various effect parameters for the Voice Processor.



FX Mix

Ld to Rv (Lead to Reverb) knob Lead to Reverb effects send.	► GBL ^{VPp}
Ha to Rv (Harmony to Reverb) knob Harmony to Reverb effects send.	► GBL ^{VPp}
Ld to DI (Lead to Delay) knob Lead to Delay effects send.	► GBL ^{VPp}
Ha to Dl (Harmony to Delay) knob Harmony to Delay effects send.	► GBL ^{VPp}
Dl to Rv (Delay to Reverb) knob Delay output to Reverb effects send.	► GBL ^{VPp}
Rev/Dl (Reverb/Delay Balance) knob Reverb/Delay mix.	► GBL ^{VPp}
FX Lev (FX Level) knob	► GBL ^{VPp}

Sets the overall volume of the combined Reverb and Delay effects.

Reverb

Туре

The list of reverb types includes the following acoustic simulations: Living Room, Chamber, Club, Classic Hall, Concert Hall, Large Cathedral, Vocal Studio, Vocal Room, Vocal Hall, Ambience, Live Reverb, Plate1, Plate2, and Spring.

Pre Delay

► GBL^{VPp}

► GBL^{VPp}

Reverb Pre-delay time. Sets the delay time prior to the reverb output. Large rooms typically have reverbs that start much later than the initial signal.

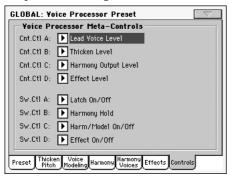
Decay		► GBL ^{VPp}
Reverb Deca	y Time.	
Low Color		► GBL ^{VPp}
Reverb Low (frequencies.	Color. Specifies the characteristics of the rev	verbs low
High Color		► GBL ^{VPp}
Reverb High high frequen	Color. Specifies the characteristics of the cies.	e reverbs
Delay		
Туре		► GBL ^{VPp}
Use this para	meter to select a Delay type.	
DualMono	Maintains the panning of the sends.	
PingPong1	Sends the lead voice to the left effect end	only.
PingPong2	Sends the lead voice to the sends dependent the lead pan setting.	nding on
Delay		► GBL ^{VPp}
	<i>le when Src = Manual (see below).</i> Use this just (in milliseconds) the current delay tim	
Feedback		► GBL ^{VPp}
Delay feedba	ck amount.	
Src (Source)	► GBL ^{VPp}
Use this para	meter to set the source of the tempo for the	e delay.
MIDI	Tempo is received from MIDI.	
Manual	The delay time is set using the "Delay" pa	arameter.
R (Ratio)		► GBL ^{VPp}
Sets the ratio	between the tempo and the resulting delay	Ι.
Hi Freq Dai	mp (High Frequency Damping)	► GBL ^{VPp}

High Frequency Damping.

Voice Processor Preset: Controls

This page allows you to define four continuous and four switch dedicated controllers for the Voice Processor, to be assigned to any physical controller (pedal, footswitch, sliders...).

For example, you can first assign the Lead Voice Level to the "Cnt. Ctl. A" Voice Processor meta-controller, then assign the "Cnt. Ctl. A" option to an Assignable Pedal or Slider.



Cnt. Ctl A...D

► GBL^{VPp}

Continuous controllers. See "List of functions assignable to Voice Processor's Continuous Controls" on page 374 for a list of assignable parameters.

Sw. Ctl A...D >GBL^{VPp}

Switch controllers. See "List of functions assignable to Voice Processor's Switch Controls" on page 374 for a list of assignable parameters.

Voice Processor: The optional Pitch Correction and Voice Modeling modules

Two optional software modules are available for the Voice Processor: Pitch Correction and Voice Modeling. These algorithms, developed by TC•Helicon, are the most sophisticated tools available today for voice shaping and correction.

You can purchase them as a single optional plug-in (SUG-TC1) from our web site <u>www.korgpa.com</u>, or by contacting your Korg Distributor.

To buy a licence for this software option, press the red Buy button next to each of the parameter names (pages "Preset", "Thicken/Pitch Correction" or "Voice Modeling"). The following dialog box will appear, showing you your Pa1X Purchase Code:

License purchase and install
Purchase Code:
jnfew - tbwrew - vyiucx - iylamo - qggoj
Activation Key:
Т
Cancel OK

Copy this code, and press Cancel to close the dialog box. Type the code in the dedicated field of the purchase module (online or on paper, depending on your purchase option).

After receiving the authorization code, open the above dialog

box again, then press the $\boxed{\mathbf{T}}$ (Text Edit) button in the display, and type it in the Activation Key field.

Press OK to confirm. Your Pitch Correction and Voice Modeling modules will become completely functional!

Harmony and Tuning with the Voice Processor

Harmony

Here's where we can go into a little more depth about harmonies. We've tried to keep it practical, focusing on what Voice Processor can do for you.

Harmony Hold

Truly an innovation, the Harmony Hold feature lets you (on a whim) sustain the backing harmony voices while you continue to sing through them. On activation (press and hold the assigned Damper, Assignable Footswitch, Assignable Switch or EC5 switch), you can freeze whatever the harmony voices are doing, and they will hold their notes (in a very natural way) until you let the pedal go.

See "Pedal/Footswitch" on page 229, "EC5-A...E" on page 230, and "Damper Mode" on page 236 for more information.

Harmony Modes

The Voice Processor has five different harmony modes, which give five unique methods of creating harmony. Once we get into describing the more complex harmony modes, we'll be showing you examples based on the C major scale. If you are unfamiliar with this scale we've shown C major here.



Notes Mode

In this mode, you provide the Voice Processor with specific note information to determine the pitch of the harmony voices. This is the most direct and flexible way of creating harmonies, allowing you to weave complex melodies and counter harmonies irrespective of your lead vocal.

Shift Mode

Also known as "Fixed Interval", this takes the pitch of your lead voice and creates harmonies a set number of semitones away, based on that pitch. The method of creating harmonies, using a fixed number of semitones relative to an input note or pitch, is called chromatic harmony, the theory of which we'll go into later. We consider this type of harmonizing to be non-intelligent because Voice Processor is not set to any particular key or scale. These are pure, parallel harmonies. The most common shift harmony voices are the 5th (7 semitones) and octave (12 semitones), ranging from two octaves below the input to two octaves above the input pitch.

Below is the C Major scale, showing third above chromatic scale harmony, as used in Voice Processor Shift Mode.



Black = Lead, Grey = Harmony

Chord (Chordal) Mode

Chordal harmonies take your chord information to create intelligent, diatonic harmonies based on your voice. To make "Chordal" harmonies, you need to input in real time the chords of the song. This may be done either by playing on the keyboard, via MIDI or through a programmed sequence of chords included in the Harmony Track of a Song.

In Chordal mode the Voice Processor will only create harmony voices that fall on the notes of the chord. Chordal harmonies are "intelligent" because they decipher the chord you're playing and the note you're singing to produce musically pleasing harmonies. When one note above is defined as a harmony voice (Up1), the next note from the chord above the input note is output for that harmony voice.

The subsequent illustration shows the harmony notes for the C major scale with a voicing selection of a C major chord and a single "one above".



You might have noticed that each harmony note can cover more than one input note, or that each input note doesn't necessarily have a unique harmony note. For instance, C and D both have E as the 3rd above, E and F share G, and so on. This gives a more stepped sound to the harmony as the changes are both greater in magnitude and less frequent than when using other harmony methods (shift mode for example). The benefit of this method is that it is very easy to integrate vocal harmonies into your songs if you already know their chord progressions! The following lists the chords available with respect to the root of "C":

Major	С	E	G	
6	С	E	G	А
Maj7	С	E	G	В
M7sus4	С	F	G	В
min	С	Eb	G	
min6	С	Eb	G	А
min7	С	Eb	G	Bb
min7b5	С	Eb	Gb	Bb
dim	С	Eb	Gb	[Bbb (= A)]
dim 7	c c	Eb E	Gb G	[Bbb (= A)] Bb
	-			
7	C	E	G	Bb
7 7b5	C C	E	G Gb	Bb
7 7b5 aug	C C C	E E E	G Gb G#	Bb Bb
7 7b5 aug aug7	c c c c	E E E	G Gb G# G#	Bb Bb

Scale (Scalic) mode

Harmonies use key and scale information to create musically correct, diatonic harmonies. Most popular music uses a single scale, so you usually only have to input the information at the beginning of your song. "Scalic" harmonies are more dynamic than the chordal harmonies because there are unique harmony notes for each input note. The subsequent illustration shows the harmony notes for the C major scale with a voicing selection of a C major scale and a single "third above" harmony voice. You can see from the next diagram that the "Scalic" harmonies are intelligent and closely follow your lead voice for a tighter sound.



Black = Lead, Grey = Harmony

Under the Harmony page, is a parameter called "Smooth". When set to 100% the harmony voices follow your input pitch, errors and all, but when set to 0% the harmonies will jump directly to the scalic harmony notes, kind of like a hard pitch correction on the harmony voice. Setting the Smooth parameter between 0 and 100% is like having variable amounts of pitch correction on the harmonies. Voice Processor has five preprogrammed harmony scales: three major, three minor and one custom per preset. To create a custom scale or pitch map see the

parameter description under "Custom Voice Mapping" on page 244.

It is also tricky to pick out the key in some songs. An example is "Sweet Home Alabama". Listening, you might think this song is in the key of "D", as that's the first chord, but the harmonies actually work best in the key of "G" – try running the song through Voice Processor to hear for yourself.

Setting the scale can also take a bit of practice: for songs centered around the third or root of the scale it might not sound like there's any noticeable differences between the three major or three minor scales. This is because your song doesn't hit any of the scale's altered notes. A melody centered around the fifth of the scale, (such as B in the key of E), highlights the differences between the scales. Try the "Sha Lala Lala ... La Tee Daa" chorus of Van Morrison's "Brown Eyed Girl" (key: E, scale: major, 3rd above voicing) with each major scale to hear the audible difference between them. For the minor scales, Santana's "Evil Ways" (key: G, scale: minor, 3rd above voicing) highlights the differences between the three minor scales.

The following table illustrates the third and fifth above for a given input note to illustrate the differences between the six different scales. "nc" means no change, in that the harmony voice will simply keep its previous pitch until the lead voice pitch changes to a non "nc" note.

	Lead Voice	с	C#	D	Eb	E	F	F#	G	G#	Α	Bb	В
MAJ1	3rd above	E	nc	F	nc	G	А	nc	В	nc	С	D	D
	5th above	G	nc	А	nc	В	с	nc	D	nc	E	F	F
MAJ2	3rd above	E	nc	F	nc	G	А	nc	С	nc	С	D	D
	5th above	G	nc	А	nc	с	с	nc	E	nc	E	F	F
MAJ3	3rd above	E	nc	F	nc	G	А	nc	Bb	nc	С	D	D
	5th above	G	nc	А	nc	Bb	с	nc	D	nc	E	F	F
MIN1	3rd above	Eb	nc	F	G	nc	Ab	nc	Bb	С	nc	D	nc
	5th above	G	nc	Bb	Bb	nc	с	nc	D	Eb	nc	F	nc
MIN2	3rd above	Eb	nc	F	G	nc	А	nc	Bb	С	nc	D	nc
	5th above	G	nc	А	Bb	nc	с	nc	D	Eb	nc	F	nc
MIN3	3rd above	Eb	nc	F	G	nc	Ab	nc	В	С	nc	D	nc
	5th above	G	nc	А	Bb	nc	с	nc	D	Eb	nc	F	nc

Diatonic and Chromatic

We've described scalic and chordal harmonies as diatonic, and shift harmonies as chromatic; but what do those words mean? Look at a piano keyboard. Between middle "C" and the next "C" there are twelve keys – 7 white keys and 5 black keys. Each of those keys are pitched one semitone apart for a total of, you guessed it, 12 semitones. The chromatic scale uses all twelve semitone notes opposed to the diatonic scales. Thus there is only one chromatic scale, but 12 each of the major, minor, etc. diatonic scales (C major, C# major, D major, etc). Most of us have grown up hearing the traditional "doh ray me fah so la tee doh" diatonic scale, so that harmonies based on the diatonic scale sound correct.

What does this mean, harmony-wise? Diatonic scale harmonies can only use notes within specified scale or chord, so a "third above" harmony voice actually varies between three and four semitones above the lead note where the chromatic harmony would stay exactly four semitones (a major 3rd) above each note.

To recap: we have three different harmony modes that use chromatic or diatonic scales.

Shifting, which uses the chromatic, 12 semitone scale, changes the input pitch by a fixed number of semitones:



Chordal, which uses the root, third, fifth and sometimes seventh of the many diatonic scales, pitches the harmony voice to the closest note contained within the chord:



Scalic, which uses one of many diatonic scales, pitches the harmony voice to the nearest note contained within the scale:



Theory aside, the best way to get great sound is to experiment with all of Voice Processor' possible harmony modes. Not only will you develop an intuitive sonic sense of what works best where, but by investigating different permutations and combinations you could discover some delightful sounds you might otherwise have missed.

Just Tuning

Why just tuning? Although probably no one has ever told you this, your expensive grand piano and the last great keyboard synthesizer you bought are both out of tune! Well, to be fair we can say instead that they are all tuned using Equal temperament. Harmony is the result of the interaction between differing audible frequencies in ratios that sound musical to the human ear. A more exact ratio leads to a nicer sounding harmony.

Most instruments (like the piano) are absolute by nature. Each note on the keyboard has a specific pitch. Equal temperament tuning uses approximations for the tuning of each note, allowing us to easily alter the key of our music without re-tuning our instruments. Unfortunately, with this method of tuning we lose the ability to create perfect ratios when playing multiple notes. As a result, much of the harmony you've heard in music has not been perfectly in tune!

The bottom line is that the approximations of equal temperament tuning are practical, but imperfect. Using the Voice Processor with Just tuning will definitely expand your musical horizons!

Just tuning is practice of maintaining the relative (and perfect) ratios between pitches, creating perfect harmonies.

Singers, especially when performing multi-part a cappella music, base their tuning on how it harmonically sounds with other singers. The natural tendency, and what sounds best, is to sing with "just tuning" so that beating is minimized. One of the goals in barbershop quartet singing is to strive for "just relative intonation" so that a sub-frequency is audible. Achieving this goal results in what barbershop fans often describe as the coveted "ring and lock" sound. In barbershop music it is the lead singer's responsibility to try to sing the melody as close to the tuning of a piano (equal temperament) as possible. The other singers must then tune their harmonies to the melody using "just relative intonation". The Voice Processor is able to do this in both the Just and Barbershop tuning modes.

When the Just or Barbershop Modes are selected in the Voice Processor, the harmony tunings are based on the following relationships:

Minor 3rd	3 cycles for every 4 cycles of the input
Major 3rd	5 cycles for every 4 cycles of the input
5th	3 cycles for every 2 cycles of the input.

Barbershop differs from Just tuning in Chordal mode. Just tuning will use the root of the chord for the tuning reference, while Barbershop tuning uses the input notes as the tuning reference. For this reason it is better to use Barbershop in an a-cappella situation and Just when playing with other instruments, because Just tuning sounds more in-tune with the other instruments that most likely have equal temperament tuning.

Our best advice is to experiment and use your ears!

Video Interface: Video Out

If your Pa1X is fitted with a Video Interface Board (VIF3), use this page to adjust its parameters.

GLOBAL: ¥ideo Interface		\Box
-Yideo Out		
System: 🕨 PAL		
Characters: 🕨 Big		
Colors: 🕨 1		
Position X: <u>16</u>	Y: <u>48</u>	
Video		
Out		

System

► GBL^{Gbl}

Selects the video standard (PAL or NTSC).

Character	► GBL ^{Gbl}

Select the character size (Big or Small).

Colors > GBL^{Gbl}

Selects a color set for the lyrics and background.

1...6 Color set.

Position X/Y

These parameters lets you adjust the image position on the external video monitor.

Touch Panel Calibration

From time to time (for example, after loading a new operating system), calibrating your Color TouchView[™] display may be necessary to make pointing more precise. If so, use this page.

910 915		
	Touch Panel Calibration	
	Touch just inside the arrows, then press "Done"	
	Done	
		20

- 1. When in this page, first touch exactly inside the upper left set of arrows.
- 2. Then, touch exactly inside the lower right set of arrows.
- 3. Press done to confirm the new calibration.

Touch Panel Calibration reset

In case the touch screen has become so misaligned, that it is very difficult to use the Touch Panel Calibration function, you can completely reset it, then fine-tune the adjustment with the above function.

To reset the touch panel, press GLOBAL to enter the Global mode, then press it again, and keep it pressed, until the following dialog box appears.

Reset Touch Panel Calibration
Press GLOBAL to reset touch panel calibration
or press EXIT to cancel.

Press GLOBAL to execute the reset, or EXIT to close this dialog box without any reset.

Page menu

Press the page menu icon to open the menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.



Write Global-Global Setup

Select this command to open the Write Global-Global Setup dialog box, and save global settings that are not tied to a single operative mode. These settings are programmed in the Global edit mode.

See "Write Global - Global Setup dialog box" on page 251 for information on the dialog box.

Write Global-Midi Setup

Select this command to open the Write Global-Midi Setup dialog box, and save the current MIDI settings to a MIDI Setup.

See "Write Global - Midi Setup dialog box" on page 251 for more information.

Write Global-Talk Configuration

Select this command to open the Write Global-Talk Configuration dialog box, and save the current Talk settings (see "Voice Processor Setup: Talk" on page 238).

See "Write Global - Talk Configuration dialog box" on page 252 for more information.

Write Global-Voice Processor Setup

Select this command to open the Write Global-Voice Processor Setup dialog box, and save the current Voice Processor Setup settings (see from page 236).

See "Write Global - Voice Processor Setup dialog box" on page 252 for more information.

Write Global-Voice Processor Preset

Select this command to open the Write Global-Voice Processor Preset dialog box, and save the current Voice Processor Preset settings (see from page 239).

See "Write Global - Voice Processor Preset dialog box" on page 252 for more information.

Write Global - Global Setup dialog box

Open this window by selecting the Write Global-Global Setup item from the page menu. Here, you can save most settings, programmed in the Global edit mode, to the Global file in memory.

Write Global Setup
Write Global Setup to memory?
Cancel OK

Parameters saved in the Global Setup area of the Global are marked with the \triangleright GBL^{Gbl} symbol through the user's manual.

Write Global - Midi Setup dialog box

Open this window by selecting the Write Global-Midi Setup item from the page menu. Here, you can save all MIDI settings to a MIDI Setup, that is included in the Global file in memory.

	₩rite Midi Setup
Name:	T Default
	To
Midi Setup:	▶ 01 Default
Cane	cel OK

Parameters saved in the MIDI Setup area of the Global are marked with the \GBL^{Mid} symbol through the user's manual.

Name

Name of the MIDI Setup to be saved. Press the **T** (Text Edit) button next to the name to open the Text Edit window and modify the name.

Midi Setup

One of the 8 available MIDI Setup locations, where to save current MIDI settings.

Write Global - Talk Configuration dialog box

Open this window by selecting the Write Global-Talk Configuration item from the page menu. Here, you can save Voice processor's Talk settings (see "Voice Processor Setup: Talk" on page 238).

₩rite Global Talk Configuration
Write Global Talk Configuration to memory ?
Cancel OK

Parameters saved in the Talk Configuration area of the Global are marked with the \triangleright GBL^{Tk} symbol through the user's manual.

Write Global - Voice Processor Setup dialog box

Open this window by selecting the Write Global-Voice Processor Setup item from the page menu. Here, you can save current settings for the Voice Processor Setup edit section (see starting from page 236).

Parameters saved in the Voice Processor Setup area of the Global are marked with the **> GBL**^{VPs} symbol through the user's manual.

Name

Name of the VP Setup to be saved. Press the **T** (Text Edit) button next to the name to open the Text Edit window and modify the name.

Voice Setup

One of the 16 available Voice Setup locations, where to save current VP Setup settings.

Save and use as default

Check this option when saving a VP Setup, you would like to be automatically selected when turning the instrument on.

Write Global - Voice Processor Preset dialog box

Open this window by selecting the Write Global-Voice Processor Preset item from the page menu. Here, you can save current settings for the Voice Processor Preset edit section (see starting from page 239).

	₩rite ¥oice Preset	
Name:	T Concert Hall Rvb	
	To	
Voice Pres	at: 🕨 02 - Concert Hall Rvb	
Car	Icel OK	

Parameters saved in the Voice Processor Preset area of the Global are marked with the **>GBL**^{VPp} symbol through the user's manual.

Name

Name of the VP Preset to be saved. Press the **T** (Text Edit) button next to the name to open the Text Edit window and modify the name.

Voice Preset

One of the 128 available Voice Preset locations, where to save current VP Preset settings.

Disk edit mode

The Disk edit mode is the place where you can manage files. This edit environment overlaps the current operating mode (Style Play, Song Play, Sequencer, Sound Edit).

Storage devices and internal memory

During a Disk operation, files are usually exchanged between a storage device and the internal memory. The Pa1X can use three different mass storage device types:

- Floppy Disk
- Hard Disk (optional on the Pa1X with speakers)
- CD (optional; only available for reading on version 1.0)

A device can be selected by using the Device pop-up menu, available on the lower left corner of most Disk pages:



Two internal memory areas are available: the SSD and RAM.

- The SSD (Solid State Disk) is the non-volatile memory, where Styles, Sounds, Performance, STSs and User Multi-samples are contained. This area is not deleted when turning the instrument off.
- The RAM (Random Access Memory) is the volatile memory, where Songs and User PCM Sample are contained. This area is deleted when the instrument is turned off.

Selecting and deselecting files

While a file list is shown in the display, you can select any item by touching it. The selected item is highlighted.

You can deselect all items in any of the following ways:

- Touch an empty area in the file list (if available).
- Press the Device pop-up icon, and select the current device again.

File types

The following tables describe all the file and folder types the Pa1X can manage. Here are the files you can read or write on the Pa1X.

Extension	File/folder type
SET	All the User data. (This is a folder containing other folders).
ВКР	Backup folder, created with the "Full Resource Backup" function of the Disk > Utility page. (This is a folder containing other folders).
GBL	Global
voc	Voice Processor Presets
PRF	Performance
PCG	Sound
РСМ	Sample
STY	Style
PAD	Pad
SBD	SongBook
JBX	Jukebox
MID	Midi file (Standard MIDI File, SMF)
MP3 ^(a)	MP3 file

(a). To read and write MP3 files, the optional EXBP-MP3 board is required.

The Pa1X can also read (but not write) the following types of data.

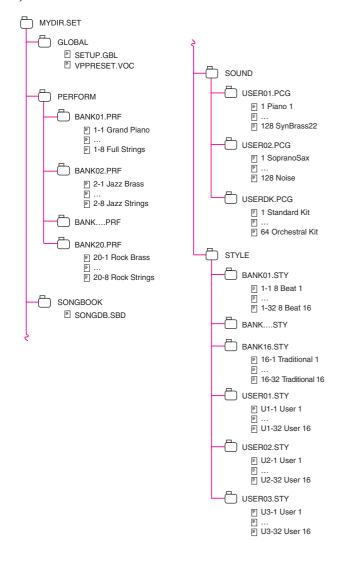
Extension	File type						
KAR	Karaoke file						
CDA ^(a)	Audio CD Track	udio CD Track					
PCG	Korg Triton Programs						
KSF	Korg Trinity/Triton Sample						
КМР	Korg Trinity/Triton Multisample						
S	Akai Sample						
Р	Akai Program						
AIF	AIFF audio files						
WAV	WAVE audio files						

(a). To read Audio CD Tracks, the optional CDRW-1 CD player/writer is required.

Disk structure

Each disk (and the internal memory) can contain files and folders. The data in Pa1X is slightly more rigorously structured than in a computer, due to the pre-configured kind of data inside the instrument's memory. The diagram below shows the global structure of a Pa1X disk.

Note: Style banks from 1 to 16 (Factory Styles) can be seen in Disk mode only when the "Factory Style and Pad Protect" parameter is set to Off (see page 265), and only when loading or saving a single Style bank.

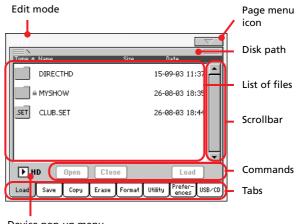


Main page

There is no main page in the disk edit mode. When pressing EXIT, you exit the Disk mode, and the underlying operating mode in the background is recalled.

Page structure

All edit pages share some basic elements.



Device pop-up menu

Edit mode

This indicates that the instrument is in Disk mode.

Page menu icon

Press this icon to open the page menu (see "Page menu" on page 269).

Disk path

Full path of the directory currently shown in the display.

List of files

This area shows the files and folder contained in the selected device.

Scrollbar

Use the scrollbar to scroll the list. Touching the arrows will scroll one step at a time, while touching the bar will scroll one page at a time.

Pressing the arrows while SHIFT is kept pressed jumps to the previous or next alphabetical section, or file/folder type (depending on the selected display order).

Device pop-up menu

Use this menu to select one of the available storage devices.

Commands

Commands may be different depending on the shown page. They are detailed in each relevant section.

Tabs

Use tabs to select one of the edit pages of the current edit section.

Navigation tools

When in a Disk page, you can use any of the following commands to browse through the files and folders.

Scrollbar

See "Scrollbar" above.

TEMPO/VALUE controls

Use these controls scroll the list up or down.

Device pop-up menu

See "Device pop-up menu" above.

Load/Save/Copy/Erase button

Executes the disk operation.

Open button

Opens the selected folder or directory (whose name begins with

the " icon.

Close button

Closes the current folder or directory, returning to the parent ("upper") level.

Load

In this page you can load User data files (Performances, User Sounds, User Styles, the SongBook, User PCM, the Global) from a disk to the internal memory (SSD and RAM).

DISK						\sim
Type * Name			Size	[)ate	
	THD			15-0	19-03 11	:37
≜ музно	W			26-0	8-03 18	3:35
SET CLUB.S	ET			26-0	8-03 18	3:44
						Ļ
► HD	Open	Clos	е		Loa	d
Load Save	Сору	Erase	Format	Utility	Prefer- ences	USB/(

Note: While in this page, only data allowed for loading are shown. All other files are hidden.

Warning: When loading a ".SET" folder containing Sounds associated with PCM data, all existing PCM data in memory are deleted. Save them before loading the folder.

Loading all the User data

You can load all the User data with a single operation.

- **1.** If loading from floppy disk, insert the disk into the disk drive.
- 2. Select the source device, by using the Device pop-up menu. When the device is selected, its content will appear in the display.
- **3.** If the folder you are looking for is inside another folder, select this latter and press the Open button to open it. Press the Close button to go back to the parent folder.
- **4.** Select the ".SET" folder containing the data you wish to load, and press Load to confirm the selection.

Note: Most data loaded from disk is merged with data already existing in memory. For example, if there is data in all three USER Style banks in memory (USER01, USER02, USER03), and there is only the USER01 Style bank on disk, the USER01 bank is overwritten, while USER02 and USER03 banks are left unchanged.

As a result, you will have a STYLE folder in memory containing the USER01 bank you just loaded, and the old USER02 and USER03 banks.

Warning: When loading a ".SET" folder containing PCM data, all existing PCM data in memory are deleted. Save them before loading the folder, by selecting the "PCM" option during a Save All operation (see "Saving the full memory content" on page 259).

To see if a ".SET" folder contains PCM data, open it and look for a "PCM" folder.

Loading all data of a specified type

You can load all User data of a specified type with a single operation.

- 1. If loading from floppy disk, insert the disk into the disk drive.
- 2. Select the source device, by using the Device pop-up menu. When device is selected, its content will appear in the display.
- **3.** If the folder you are looking for is inside another folder, select the latter and press the Open button to open it. Press the Close button to go back to the parent folder.
- 4. Select the ".SET" folder containing the data you wish to load, and press Open to open the ".SET" folder. A list of User data appears (Global, Performance, SongBook, Sounds, Style...).

DISK			
	LUB.SET * Name	Size Date	
U.	GLOBAL	26-08-03	19:21
	PERFORM	26-08-03	19:21
รเ	SONGBOOK	26-08-03	19:22
	SOUND	26-08-03	19:23
<u>R</u>	STYLE	26-08-03	19:23
	1D Open Close		oad
Load	Save Copy Erase F	ormat Utility Pref	erUSB∕CD esUSB∕CD

5. Select the folder containing the type of data you are looking for, and press Load to confirm your selection.

Note: Data loaded from disk, and data already in memory are merged. For example, if there is data in all three USER Style banks in memory (USER01, USER02, USER03), and there is only the USER01 Style bank on disk, the USER01 bank is overwritten, while USER02 and USER03 banks are left unchanged.

As a result, you will have a STYLE folder in memory containing the USER01 bank you just loaded, and the old USER02 and USER03 banks.

Loading a single bank

You can load a single bank of User data (User Sounds, User Styles, Performances) with a single operation. A bank corresponds to a STYLE SELECT or PERFORMANCE/SOUND SELECT button.

- 1. If loading from floppy disk, insert the disk into the disk drive.
- 2. Select the source device, by using the Device pop-up menu. When device is selected, its content will appear in the display.
- **3.** If the folder you are looking for is inside another folder, select this latter and press the Open button to open it. Press the Close button to go back to the parent folder.
- 4. Select the ".SET" folder containing the data you wish to load, and press Open to open the ".SET" folder. A list of User data appears (Global, Performance, SongBook, Sounds, Style...).

DISK			∇
	LUB.SET * Name	Size Date	
U .	GLOBAL	26-08-03 19:2	
	PERFORM	26-08-03 19:2	1
sl	SONGBOOK	26-08-03 19:2	2
	SOUND	26-08-03 19:2	3
<u>ř</u>	STYLE	26-08-03 19:2	₃╘┨
Þ	ID Open Close	Load]
Load	Save Copy Erase	Format Utility Prefer-U	SB∕CD

5. Select the folder containing the type of data you are looking for, and press Open to open the selected folder. A list of User banks appears.

DISK				∇
	LUB.SET\STYLE * Name	Size	Date	
RJ	USER01.STY	376K	26-08-03 19:2	23 🗎
<u>R</u>	USER02.STY	553K	26-08-03 19:2	:3
<u>R</u>	USER03.STY	548K	26-08-03 19:2	23
				-
HD Open Close Load				
Load	Save Copy E	irase Format	Utility Prefer-	USB∕CD

6. Select the bank you are looking for, and press Load to confirm the selection. A dialog box appears, asking you to select one of the available User banks in memory.



In the page above, the previously selected Style bank will be loaded into the bank 1 (USER1 button) in memory. The existing Styles in memory will be deleted and overwritten. 7. Select the target bank, and press OK to load the source bank.

Warning: After confirming, all User data contained in the bank in memory is deleted.

Loading a single item

You can load a single User item with a single operation.

- 1. If loading from floppy disk, insert the disk into the disk drive.
- 2. Select the source device, by using the Device pop-up menu. When device is selected, its content will appear in the display.
- **3.** If the folder you are looking for is inside another folder, select this latter and press the Open button to open it. Press the Close button to go back to the parent folder.
- 4. Select the ".SET" folder containing the data you wish to load, and press Open to open the ".SET" folder. A list of User data appears (Global, Performance, SongBook, Sounds, Style...).

DISK			
	LUB.SET Name	Size Date	
U .	GLOBAL	26-08-03 1	9:21
	PERFORM	26-08-03 1	9:21
sl	SONGBOOK	26-08-03 1	9:22
	SOUND	26-08-03 1	9:23
<u>R</u>	STYLE	26-08-03 1	9:23
Þ	ID Open Close	Loa	ad
Load	Save Copy Erase	Format Utility Prefer	USB/CD

5. Select the folder containing the type of data you are looking for, and press Open to open the selected folder. A list of User banks appears.

DISK				∇^{-}
	LUB.SET\STYLE	Size	Date	
	USER01.STY	376K	26-08-03 19:23	Ā
<u>R</u>	USER02.STY	553K	26-08-03 19:23	
<u>R</u>	USER03.STY	548K	26-08-03 19:23	3
				-
HD Open Close Load				
Load	Save Copy E	ase Format	Utility Prefer-U	SB∕CD

6. Select the bank you are looking for, and press Open to open it. A list of User items appears.

DISK				∇
	LUB.SET\STYLE\USER01.S` Name	ry Size	Date	
<u>R</u>	01:01 MegaFunky	13K	26-08-03 19:2	23
	01:02 Pop&Folk	11K	26-08-03 19:2	23
<u>R</u>	01:03 Rock&Folk	7.6K	26-08-03 19:2	23
<u>r</u> i	01:04 Unplugged	12K	26-08-03 19:2	23
<u>r</u>	01:05 GipsyDance	14K	26-08-03 19:2	23
HD Open Close Load				
Load	Save Copy Erase	Format	Utility Prefer-	USB/CD

7. Select the item you are looking for, and press Load to confirm the load. A dialog box appears, asking you to select one of the available User locations in memory.

Load
New Beguine
To
U01:01 New Beguine Select
Cancel OK

In the dialog box above, the previously selected Style will be loaded into location 01 of the bank U01 (USER1 button) in memory. The existing Style at the same memory location will be deleted and overwritten.

Empty locations are named <empty>.

8. Select the target location, and press OK to load the source file.

Warning: After confirming, the item you are overwriting in memory will be deleted.

Loading i-Series data

Pa1X is compatible with the Styles of the older i-Series instruments. You can load them as if they were ordinary Pa1X data.

- 1. Insert an older i-Series floppy disk into the disk drive.
- 2. Press DISK to go to the Disk mode. Select the Load page if needed.
- **3.** While in the Load page, select the floppy disk (FD) from the Device pop-up menu.
- **4.** If you are reading an i30 disk, select the ".SET" folder and press the Open button in the display.
- 5. Select the ".STY" folder.
- 6. At this point, you can load the whole ".STY" folder, or open it and select a single Style.

• To load the whole folder, press the Load button in the display. If it contains more than 16 Styles, they will be loaded into the USER banks sequentially, otherwise you will be prompted to select one of the three USER Style banks in memory. Once the target bank is selected, press Load to load the bank. The "Are you sure?" message will appear. Press OK to confirm, or Cancel to abort.

• To load a single Style, press Open in the display to open the ".STY" folder. Since a conversion will be started at this point, please wait some seconds for the operation to be completed.

Select the Style to load, then press Load. You will be prompted to select a target location in memory. Once the target location is selected, press Load to load the Style. The "Are you sure?" message will appear. Press OK to confirm, or Cancel to abort.

Note: Loading a whole ".SET" folder from an i30 disk may take very long. You are advised to load a single bank or a single Style a time.

7. Go to the Style Play mode, and select (one of) the loaded Style. Adjust the Tempo, then select the "Write Current

Style Performance" to write changes to the Style Performance. Press OK twice to confirm.

- 8. Due to difference in Sounds, you will probably make some adjustment to the old Styles, once they are loaded in Pa1X (changing the Sound, Volume, Pan, Tempo, Drum Mapping, Wrap Around...).
- **9.** To make the Sound assignment to the Style tracks effective, be sure the "Original Style Sounds" parameter is not checked (see page 78).
- **10.** Save the Style Performance again. Select the "Write Current Style Performance" to write changes to the Style Performance. Press OK to confirm.

Loading Pa80/60 data

You can load Pa80/60 data exactly as if they were Pa1X data. The only difference is that the "SOUND" folder of Pa1X is called "PROGRAM" in the Pa80/60. Therefore, to load Sounds from Pa80/60 disks, you must accomplish one of the following operations:

- Either rename the "PROGRAM" folder "SOUND" (by using a personal computer) before loading a ".SET" folder; or
- First load the ".SET" folder, then separately load the ".PCG" file from the "PROGRAM" folder.

Save

In this page, you can save User data from the internal memory to a disk. You can save single files, banks, or all the User files of the internal memory (i.e., the SSD device).



Note: While in this page, only data allowed for saving are shown. All other files are hidden.

Here are the various types of files contained in the internal memory:

The file/folder type	contains	and will create on disk
All	All the User data in memory	A .SET folder
Style	The USER 01-03 Styles	A STYLE folder inside a .SET folder
Sound	The USER Sounds and Drum Kits	A SOUNDS folder inside a .SET folder
Perform (Per- formances)	The Performances	A PERFORM folder inside a .SET folder
SongBook	The SongBook database	A SONGBOOK folder inside a .SET folder
PCM	All the Multisamples contained in the SSD, and the Samples con- tained in RAM	A PCM folder inside a .SET folder
Global	The Global. All parame- ters marked with ▶GBL through the various chapters are saved in the Global. Voice Processor presets are saved too.	A GLOBAL folder inside a .SET folder. A .VOC file will be cre- ated inside the GLO- BAL folder, containing Voice Processor pre- sets

Saving the full memory content

You can save the full memory content with a single operation.

- 1. If saving to a floppy disk, insert the disk into the disk drive.
- 2. The full content ("All") of the internal memory is already shown. Select it, and press Save to confirm the selection. The list of files of the target device is shown.



- **3.** If needed, select a different target device, by using the Device pop-up menu. When the target device is selected, its content will appear in the display.
- 4. At this point, you can:

• Press the New SET button and create a new ".SET" folder (see "Creating a new ".SET" folder" on page 261), or

- Select an existing ".SET" folder.
- 5. Press Save to confirm. A dialog box appears, asking you to select the type of data to save:



In the above dialog box, check all data type you wish to save to disk.

6. Press OK to confirm, or Cancel to abort.

Warning: After confirming, all data of the selected type in the target folder is deleted.

Saving all data of a specified type

In addition to the above, you can save all data of a specified type by selecting the corresponding folder.

- 1. If saving to a floppy disk, insert the disk into the disk drive.
- 2. The full content ("All") of the internal memory is already shown. Select it, and press Open to open it. A list of User data types appear (each type is a separate folder).

DISK		
Type 4	TARTUP\ALL « Name Size	Date
H. ⁶	GLOBAL	28-08-03 18:59
Ľ	PERFORM	28-08-03 18:59
sl	SONGBOOK	28-08-03 18:59
	SOUND	28-08-03 18:59
<u> </u>	STYLE	28-08-03 18:59
	SD Open Close	Save To
Load	Save Copy Erase Format	Utility Prefer-USB/CC

3. Select the folder containing the type of data you wish to save, and press Save To to confirm the selection. The list of files of the target device is shown.

DISK				7	7
Type *	Name	Size	Date		
	DIRECTHD		26-08-03	18:40	^
	MYSHOW		26-08-03	18:35	
.SET	CLUB.SET		26-08-03	18:44	
					Ļ
•	D Open Close	New:	SET) Sa	ive]	-
Load	Save Copy Erase	Format	tility Prefe	er-USE	3/C

- 4. If needed, select a different target device, by using the Device pop-up menu. When the target device is selected, its content will appear in the display.
- 5. At this point, you can:

• Press the New SET button and create a new ".SET" folder (see "Creating a new ".SET" folder" on page 261), or

- Select an existing ".SET" folder.
- 6. Press Save to confirm.

Warning: After confirming, all data of the selected type in the target folder is deleted.

Saving a single bank

You can save a single User bank with a single operation. A bank corresponds to a button on the control panel of the instrument (i.e. a button of the STYLE section).

- 1. If saving to a floppy disk, insert the disk into the disk drive.
- 2. The full content ("All") of the internal memory is already shown. Select it, and press Open to open it. A list of User data types appear (each type is a separate folder).

DISK			$\neg \bigtriangledown \neg$
	TARTUP\ALL Name	Size Date	
	GLOBAL	28-08-03 :	18:59
	PERFORM	28-08-03	18:59
sl	SONGBOOK	28-08-03	18:59
	SOUND	28-08-03	18:59
<u><u>R</u>.</u>	STYLE	28-08-03	18:59 🖵
•	SD Open Close	Sav	e To
Load	Save Copy Erase Fi	ormat Utility Prefe ence	GUSB∕CD

3. Select the folder containing the type of data you wish to save, and press Open to open it. The list of contained banks is shown.

DISK				∇^{-}
	TARTUPNALLNSTYLE	Size	Date	I
RJ	BANKØ1.STY	357K	26-08-03 17:4	6
<u>R</u>	BANK02.STY	315K	26-08-03 17:5	1
<u>R</u>	BANK03.STY	320K	30-07-03 18:5	2
<u>R</u>	BANK04.STY	332K	30-07-03 18:5	2
<u>r</u>	BANK05.STY	253K	30-07-03 18:5	2 🗸
	SSD Open	Close	Save To]
Load	Save Copy	Erase Format	Utility Prefer-U	JSB∕CD

4. Select the bank to be saved, and press Save To to confirm the selection. The list of files of the target device is shown.

DISK							~	$\overline{\nabla}$
Type *	· Name			Size	D	late		
	DIRECT	ſHD			26-0	8-03	18:40	
	MYSHO	W			26-0	8-03	18:35	
.SET	CLUB.S	ΈT			26-0	8-03	18:44	
								•
► H	ID	Open	Clos	e Ne	• ∀ SET	S	ave	
Load	Save	Сору	Erase	Format	Utility	Pref enc	er- Usi es Usi	B∕CD

- 5. If needed, select a different target device, by using the Device pop-up menu. When the target device is selected, its content will appear in the display.
- 6. At this point, you can:

• Press the New SET button and create a new ".SET" folder (see "Creating a new ".SET" folder" on page 261), or

• Select an existing ".SET" folder.

7. Press Save to confirm. A dialog box appears, asking you to select one of the available User locations inside the folder:

Save
BANK01.STY
To Hd:\club.set
User 01
Cancel OK

In the dialog box above, the previously selected bank of Styles will be saved to the bank User 01 (corresponding to the USER1 button) inside the selected folder. Three User banks are available.

8. Press OK to confirm, or Cancel to abort.

Warning: After confirming, the same bank in the target folder is deleted.

Saving a single item

You can save a single User item with a single operation.

- 1. If saving on a floppy disk, insert the disk into the disk drive.
- 2. The full content ("All") of the internal memory is already shown. Select it, and press Open to open it. A list of User data types appear (each type is a separate folder).

DISK			\Box
	TARTUP\ALL Name	Size Date	
U .	GLOBAL	28-08-03	18:59
	PERFORM	28-08-03	18:59
sl	SONGBOOK	28-08-03	18:59
	SOUND	28-08-03	18:59
<u>R</u>	STYLE	28-08-03	18:59 🖵
	SD Open Close	Sa	ve To
Load	Save Copy Erase	Format Utility Pref	

3. Select the folder containing the type of data you wish to save, and press Open to open it. The list of contained banks is shown.

DISK				∇
Type 4	TARTUPNALLNSTYLE Name	Size	Date	
<u>R</u>	BANK01.STY	357K	26-08-03 17:4	H6 📥
<u>R</u>	BANK02.STY	315K	26-08-03 17:5	51
<u>R</u>	BANK03.STY	320K	30-07-03 18:5	52
<u>r</u>	BANK04.STY	332K	30-07-03 18:5	52
<u>r</u> i	BANK05.STY	253K	30-07-03 18:5	52 🖵
	SSD Open (Close	Save T	•
Load	Save Copy E	irase Format	Utility Prefer-	USB/CD

4. Select the desired bank, and press Open to gain access to the single files.

DISK				
	TARTUPNALLNSTYLENBANKØ * Name	1.STY Size	Date	=
i gpe -	r Name	512B	Date	-1
<u>R</u>	01:01 Unplugged	9.2K	26-08-03 17:46	H
<u>Ri</u>	01:02 01 TakeBeat*	15K	26-08-03 17:46	
<u>r</u> i	01:03 slow hip hop*	16K	26-08-03 17:46	
<u>R</u>	01:04 Unpl Gtr1	8.6K	26-08-03 17:46	
<u>r</u> i	01:05 Britpop	11K	26-08-03 17:46	-
	SSD Open Clo	se	Save To	
Load	Save Copy Erase	Format	Utility Prefer-USB/0	0

5. Once you have selected the file that you want to save, press Save To to confirm the selection. The list of files of the target device is shown.

DISK					1	7
Type *	Name		Size	Date		
	DIRECTHD			26-08-03	18:40	A
	MYSHOW			26-08-03	18:35	
.SET	CLUB.SET			26-08-03	18:44	
						•
► H	D Open	Clos	e Ne	SET S	ave	
Load	Save Copy	Erase	Format	Utility Pref		3/CD

- 6. If needed, select a different target device, by using the Device pop-up menu. When the target device is selected, its content will appear in the display.
- 7. At this point, you can:

• Press the New SET button and create a new ".SET" folder (see "Creating a new ".SET" folder" on page 261), or

• Select an existing ".SET" folder.

8. Press Save to confirm. A dialog box appears, asking you to select one of the available User locations inside the selected folder



In the dialog box above, the previously selected Style will be saved to location 01 inside the bank U01 (corresponding to the USER1 button) inside the selected folder.

9. Press OK to confirm, or Cancel to abort.

Warning: After confirming, the same item in the target folder is deleted.

Creating a new ".SET" folder

Pa1X proprietary data must be saved in special folder with the ".SET" extension. These special folders can be saved inside ordinary folders.

When saving, you can save onto existing ".SET" folders, or you can create a new folder of this type. Here is how to do it.

1. When the directory of the target device is shown in the display, the "New SET" button appears among the buttons below the file list.



2. Press the New SET button. A dialog box appears, asking you to enter a name for the new ".SET" folder.

Create New SET	Folder
T NEWNAME	
Cancel	ΟΚ
Cancel	

- 3. Press the **T** (Text Edit) button to open the Text Edit window. Enter the name, then press OK to confirm and close the Text Edit window.
- 4. Press OK to create the new folder and exit the dialog box.

Сору

In this page you can copy single files, whole folders (generic or ".SET" folders), or a generic folder's content. You can copy inside the same device, or from a device to a different one.

To preserve the data structure integrity, during Copy operations you can't open ".SET" folders to copy only one of the files it contains. You can only open generic folders.

DISK				∇^{-}
Type >	* Name	Size	Date	
	DIRECTHD		26-08-03 18:40	A
	MYSHOW		26-08-03 18:35	5
.SET	CLUB.SET		26-08-03 18:44	- []
JBX	EVENING. JBX	27	18-07-03 16:06	5
KAR	HONESTY.KAR	13K	05-08-03 12:55	· -
Þ	1D Open C	lose	Сору То	
Load	Save Copy Era	se Format l	Jtility Prefer-U	SB∕CD

Copying a whole folder or folder's content

You can copy the selected folder (generic or ".SET") into a different disk or folder. If nothing is selected while a folder is open in the display, the folder's content will be copied, without copying the folder itself. If copying a whole folder, a new folder with the same name will be created at the target location.

Note: During the Copy procedure, you can't open a ".SET" folder. You can, anyway, open any generic folder.

- **1.** If copying from or to a floppy disk, insert the disk into the disk drive.
- 2. Select the source device, by using the Device pop-up menu.
- **3.** If the folder you are looking for is inside another folder, select this latter and press the Open button to open it. Press the Close button to go back to the parent folder.
- 4. Select the data to copy:

• To copy a folder, select the folder you want to copy.

• To copy the current folder's content, without copying the folder itself, do not select anything.

5. Press Copy To to confirm. The target device appears.

Note: If the selected device is not available, the "Device not found, or unknown format" message will appear. A different device will be automatically selected.

- 6. If needed, select the target device, by using the Device popup menu.
- 7. If you want to select a different folder, use the Open and Close buttons to move through the directories.

• To copy into an existing generic folder (not a ".SET" folder), select that folder.

• To copy into the current folder, do not select anything.

8. Once the target is selected, press Copy.

The "Overwrite existing files?" message will appear. Press Yes to confirm overwriting, or No to cancel. When you choose to **overwrite**, the data you are copying will replace the same data on the target. For example, if a file with the same name and extension exists on the target folder, it will be overwritten. If a USER bank exists, it will be overwritten.

Data that does not exist on the source folder is left unchanged. For example, if a midifile exists on the target folder, but not in the source folder, it is left untouched after copying the other files.

When you choose **not to overwrite**, any file already existing on the target folder is left unchanged, therefore files in memory with the same name and extension are not copied. All other files are copied.

Copying a single file

You can copy a single file from a generic folder to a different folder. The file must reside on the root (the main/highest folder in the disk hierarchy) or in a generic folder. You can't copy single files from a ".SET" folder.

- 1. If copying from or to a floppy disk, insert the disk into the disk drive.
- 2. Select the source device, by using the Device pop-up menu.
- **3.** Select the folder containing the file you wish to copy. If it is contained in another folder, press the Open button to open it. Press Close to go back to the previous hierarchic level.
- 4. Press Open to open the folder containing the file to copy.
- 5. Select the file to copy, and press Copy To to confirm its selection. The target device appears.

Note: If the selected device is not available, the "Device not found, or unknown format" message will appear. A different device will be automatically selected.

- 6. If needed, select the target device, by using the Device popup menu.
- 7. When the target device content appears in the display, select the target folder. Press Open to open a folder, or Close to close it.
- 8. Once the target is selected, press Copy.

The "Overwrite existing files?" message will appear. Press Yes to confirm overwriting, or No to cancel.

When you choose to **overwrite**, the data you are copying will replace existing data with the same name and extension on the target. For example, if the same midifile exists on the target folder, it will be overwritten.

Data that does not exist on the source folder is left unchanged. For example, if the MYSONG01.MID midifile exists on the target folder, but not in the source folder, it is left untouched after copying the other data.

When you choose **not to overwrite**, data already existing on the target folder is left unchanged, therefore files in memory with the same name and extension are not copied. All other files are copied.

Erase

DIRECTHD 26-08-03 18:40 26-08-03 18:35 MYSHOW SET CLUB.SET 26-08-03 18:44 EVENING, 18X 27 18-07-03 16:06 HONESTY.KAR 05-08-03 12:55 13 ▶ HD Open Close Frase Load Save Copy Erase Format Utility Prefer- USB/CD

With the Erase function you will be able to select the internal memory (SSD device), and erase files from there. You cannot, however, delete folders from the internal memory, since they are used by the operating system.

Erase procedure

- 1. If erasing from a floppy disk, insert the disk into the disk drive.
- 2. If needed, select a different device, by using the Device pop-up menu.
- **3.** If the file or folder you are looking for is inside another folder, select this latter and press the Open button to open it. Press the Close button to go back to the parent folder.
- 4. Select the file or folder to erase.
- 5. Press Erase to delete the selected item.

Format

Volume Label TKORG_HD C Quick Format Full Format Please select an option and press 'Execute'.	- Format -			
C Full Format	Volume La	ibel <u>T</u> KORG_I	HD	
	💽 Quick	Format		
Please select an option and press 'Execute'.	C Full (Format		
Please select an option and press 'Execute'.	Discou			
	Please	e select an option	and press 'Execute'	

The Format function lets you initialize a device.

Warning: When formatting a device, all data it contains is lost forever!

Volume Label

Use this parameter to assign a name to the device to be formatted.

Press the \mathbf{T} (Text Edit) button to open the Text Edit window. Enter the name, then press OK to confirm and close the Text Edit window.

Quick Format

This is a very fast format command, that you can use on previously formatted disks. This command rewrites just the FAT (File Allocation Table) of the disk, without actual reformatting of all sectors.

If it cannot be executed, the "Quick Format failed. Full Format?" message appears. Press Yes to proceed with the Full Format, or No to cancel.

1. If formatting a floppy disk, insert a 3.5" HD or DD/DS floppy disk into the disk drive, and select this option to format it.

If formatting a CD-RW, insert it into the CD drive.

- 2. Select the Quick Format option.
- **3**. Press the Execute button in the display to confirm formatting.
- **4.** The "If you confirm, all data in the HD/FD will be lost. Are you sure?" message appears in the display. Press Yes to confirm, or No to cancel.

Note: When formatting the hard disk, an additional warning appears, to avoid accidental data loss.

Full Format

This is the complete format command, where each sector of the disk is formatted. It is slower than the Quick Format command, but sometimes more reliable.

See above for the procedure.

Execute button

Press this button, after setting all the options in this page, to execute the Format command.

The Erase function lets you erase files and folders from disks.

Utility

This page includes a set of backup utilities.

	• Save OS to Floppy Disk
	C Full Resource Backup
	C Full Resource Restore
	Please select an option and press 'Execute'.
0	S Version: 2.0 build 038 (Jun 28 2004) Execute

Save OS to Floppy Disk

This command starts an Operating System backup, to save a copy of the instrument's Operating System on three floppy disks.

Note: Should you not do a back-up and your internal data becomes damaged, you can download the data from <u>www.korgpa.com</u>, or ask your local Korg dealer.

1. Prepare three formatted, empty disks (1.44MB, MS-DOS formatted). You can prepare this kind of disk using a PC or the Pa1X itself (see "Format" on page 263). Clearly write the disk progressive number on each disk label.

Note: You can't prepare a Pa1X OS disk on a Macintosh. After formatting, the Mac includes some invisible files in the root, that may interfere with the Pa1X OS loading procedure.

- 2. Select the Save OS to Floppy Disk command, then press the Execute button in the display.
- 3. When asked, insert a disk and press OK.

If a disk is not formatted or empty, Pa1X asks if you want to format it. Press Yes to format the disk. Pa1X first tries a Quick Format, then makes a Full Format if the former is not possible.

4. When finished, save the disks in a safe place.

Backup Resources

This command starts a backup of all internal Factory and User data (Styles, Sounds, Performances...) excluding the Operating System. A ".BKP" file is created on disk(s).

Note: Should you not do a back-up and your internal data becomes damaged, you can download the original data from <u>www.korgpa.com</u>. On the Pa1X Pro, a backup file has been provided on the hard disk, under the name "PA1X_100".

- 1. If you are making a backup on floppy disks, prepare at least six disks. Disks don't need to be formatted, because Pa1X will format them for you during the Backup procedure.
- 2. Select the Backup Resources command, then press Execute. The target device appears.

DISK				$\neg \nabla \neg$
Type *	· Name	Size	Date	
	DIRECTHD		26-08-03	18:40
	MYSHOW		26-08-03	18:35
				_
•	ID Open	Close Can	el Ba	ckup
Load	Save Copy	Erase Format U	tility Prefi	er− USB∕CD

- 3. If backing up to floppy disks, insert the first backup disk.
- 4. If needed, select a different device, by using the Device pop-up menu.
- 5. If you wish to save data inside another folder, select this latter and press the Open button to open it. Press the Close button to go back to the parent folder.
- 6. Select the folder where to save data, and press Backup to save it. If nothing is selected, data will be saved to the current directory.

After pressing Backup, a dialog box will appear, asking you to select a name for the backup file, and whether compression must be turned on or off during the backup.

Backup
T New Name
Compression
Cancel OK

Press the **T** (Text Edit) button to open the Text Edit window. Enter the name, and confirm by pressing OK.

We suggest you check Compression, to save space on the backup device. However, with compression turned on, the operation will last longer.

- 7. Press OK to start the backup.
- 8. If backing up to floppy disks, when the Pa1X asks for it insert a new disk into the floppy disk drive. Write the disk number on each disk's label.

If a disk is not formatted or empty, Pa1X asks if you want to format it. Press Yes to format the disk. Pa1X first tries a Quick Format, then makes a Full Format if the former is not possible.

9. When finished, save the disks in a safe place.

Restore Resources

This command restores the backup of the internal Factory and User data, created with the "Backup Resources" command.

Note: Should you not do a back-up and your internal data becomes damaged, you can download the original data from

<u>www.korgpa.com</u>. On the Pa1X Pro, a backup file has been provided on the hard disk, under the name "PA1X_100".

Warning: Don't play the keyboard while restoring data, and stay in the Disk mode. Wait until the "Wait" message disappears.

- 1. If you are restoring from a set of floppy disks or from a CD, prepare the disk(s) containing the backup file to be restored.
- 2. Select the Restore Resources command, then press Execute. The source device appears.
- **3.** If restoring from floppy disks, insert the first backup disk. If restoring from CD, insert it in the CD drive.
- 4. If needed, select a different device, by using the Device pop-up menu.
- 5. Browse through the files to find the backup file.
- 6. When the backup file (".BKP" file) is in the display, select it and press the Restore command.
- 7. If restoring from floppy disks, wait until the first backup disk has been loaded. A message will appear, asking you to insert the following disk. Insert the second backup disk and press OK.
- 8. Repeat the same procedure with the following backup disks. When the last backup disk has been loaded, the backup data is restored into the internal memory.
- 9. Turn the instrument off, then on again to allow rebooting.

OS Version Number

This line shows the installed Operating System version. A newer version may be available on <u>www.korgpa.com</u>.

Preferences

This page includes various protect options, plus the PCM Autoload option and settings for the hard disk sleep time.

DISK
Global-Disk Preferences
Global Protect
Hard Disk Protect
Factory Style and Pad Protect
PCM Autoload Load PCM
Hide Unknown Files
Hard Disk Sleep Time [s]: 🕨 20
Load Save Copy Erase Format Utility Prefer-USB/CD

Global Protect

► GBL^{Dsk}

When loading a ".SET" file (see "Loading all the User data" on page 255), this parameter (if On) prevents Global parameters from being reprogrammed when loading all data. All Global parameters are therefore left unchanged.

When loading a single ".GLB" file, this parameter is ignored, and the Global is overwritten by the loaded data.

Note: This parameter is saved to memory, but not to disk.

Hard Disk Protect

► GBL^{Dsk}

Reference

When on, this parameter protects the Hard Disk from writing.

Note: This parameter is saved to memory, but not to disk.

Factory Style and Pad Protect

When On, this parameter protects the Factory Styles (from the "8/16 BEAT 1" to the "TRADITIONAL" bank) and Factory Pads (named "Hit" and "Sequence" in the Pad Select window) from being overwritten when loading data from disk. Furthermore, you can't access these banks when saving data.

When Off, you can load or save User Styles or Pads even into the Factory Style banks (from "8/16 BEAT 1" to "TRADITIONAL") and Factory Pad banks (named "Hit" and "Sequence" in the Pad Select window). This way, you can personalize your Factory Style and Pad banks.

Please note that the Save All procedure always saves only the USER Style banks.

Note: This parameter is automatically set to On when turning the instrument off.

Note: Should your accidentally delete some Factory Data, reload the Backup data, contact your Korg dealer or service center, or download the data from <u>www.korgpa.com</u>.

PCM Autoload

▶ GBL^{Dsk}

While most Sounds use samples, or PCM data, contained in ROM – therefore always available –, some other Sounds may use external samples, that must be loaded to RAM to be used. These Sounds may have been loaded from disk, or created in Sampling mode.

Since loading may take time, you can choose whether to automatically load or not these samples when turning the instrument on.

If samples have not been loaded when turning the instrument on, you can press the Load PCM button in this page to load them.

Warning: When loading PCM data, all existing PCM data in memory are deleted. Save them before loading the folder, by selecting the "PCM" option during a Save All operation (see "Saving the full memory content" on page 259).

- On When turning the instrument on, external samples used by some Sounds are automatically loaded to RAM.
- Off When turning the instrument on, external samples used by some Sounds are not automatically loaded. Therefore, these Sound will be muted, until you use the Load PCM button to load them to RAM.

Load PCM button

Press this button to load to RAM all sample (or PCM data) used by some Sounds loaded fro disk, or created in Sampling mode. *Not available if no User PCM Samples are used by any Sound.*

Hide Unknown Files

When this option is checked, non-proprietary files are hidden when using Disk operations, therefore making browsing directories easier.

HD Sleep Time

Use this parameter to set the number of seconds after which, if inactive, the hard disk will stop. If Off, the hard disk will never go to sleep.

USB/CD

Use this page to enable or disable the USB interface, and to write a CD or a CD image file.



- For information on the use of the USB interface, see "USB/ CD: USB" below.
- For information on CD writing, see "USB/CD: CD" on page 267.

USB/CD: USB

The USB interface allows you to access the internal hard disk from a personal computer (Windows or Macintosh), by just connecting the Pa1X to its USB interface. This way, you can quickly backup data from the internal hard disk of the Pa1X to your personal computer, or exchange data between the Pa1X and a personal computer.



Note: Windows 2000 and XP, as well as Mac OSX, can be directly connected to the Pa1X. To connect a Windows 98 computer you need a dedicated driver, available on <u>www.korgpa.com</u>.

Hint: While USB communication is enabled, you cannot access other functions on the Pa1X. We suggest you use the USB just after turning the instrument on, and turn the instrument off and on again after using and disconnecting it, to be sure USB activities will not interfere with other disk operations.

Hard Disk USB Connection

Normally, USB is not activated on the Pa1X. Press the Enable button to turn it on, or the Disable button (with all caveats) to turn it off.

Enable After connecting Pa1X to a personal computer by using a standard USB cable (Pa1X is the B – or slave – device, while the personal computer is the A – or master – device), press this button to enable communication.

> The DISK LED will start blinking, while the personal computer reads the internal hard disk of the Pa1X. When finished (this may take some minutes, depending on the hard disk size), the icon of

the hard disk will appear among the other storage devices connected to the computer:





Pa1X in Windows

Pa1X in Macintosh

Caveat: Do not modify ".SET" folders, or you will no longer be able to use them on the Pa1X. Only use the USB connection for backup purpose, or to modify ordinary folders.

Note: After starting USB connection, accessing Pa1X data from the computer may take some time, depending on the size of the hard disk and contained data.

Disable Press this button to disconnect the USB connection. Be careful to press it only when you are totally sure data transfer has been completed.

Note: USB connection is also automatically disconnected when disconnecting the USB communication on the personal computer side.

To disconnect USB communication on a PC, you usually select the dedicated command by clicking on the USB device icon with the right mouse button. On the Mac, select the USB device icon, then select the Eject command or drag it to the eject icon in the Dock.

Hint: We suggest to disconnect USB connection from the personal computer, instead of pressing this button on the Pa1X.

Caveat: Do not disconnect USB communication before the personal computer has really finished transferring files. Sometimes, the on-screen indicator tells the procedure has been completed, BEFORE it is actually finished.

Disconnecting USB communication (or disconnecting the USB cable) before data transfer has been completed may cause loss of data.

USB/CD: CD

You can use the (optional) Korg CDRW-1 CD Player/Writer to write data on CD and CD-RW disks.



Note: A hard disk must be installed for CD writing to work. **Note:** Audio CDs cannot be written on the Pa1X/Pa1X Pro.

Write CD

Press this button to create a list of files, to be directly written to CD or saved as an image file. The image file can later be read

with the "Write from IMG" command on the Pa1X, or by common CD-writing software applications on a personal computer.

After pressing this button, the "Select Files" page appears. See "Select Files page" below.

Write from IMG

Press this button to write a CD from an ISO image file (.ISO), either generated by the "Write CD" command on the Pa1X, or by a CD-burning software application on a personal computer. Pa1X complies with the ISO9660 Mode 1/2048 format (or CDROM format). It does not comply with Mode 2 (or CDROM-XA format).

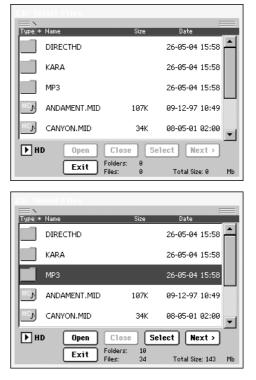
Note: While image files can be generated by most CD-burning applications, such as Ahead SoftwareTM Nero[®], RoxioTM Easy CD Creator[®], or RoxioTM Toast[®], we cannot warrant full compatibility with them, due to the fast-changing way their features are implemented.

If you create the ".ISO" image file on a computer, you must move it to the internal hard disk of the Pa1X via the USB connection, prior to selecting this command. The needed ISO image file must reside in the internal hard disk of the Pa1X.

After pressing this button, a standard File Selector appears, allowing you to select an image file. After the ISO image file has been selected and the Select button has been pressed, the "Write CD" dialog box will appear (see "Write CD dialog box" below).

Select Files page

After pressing the "Write CD" button in the Disk > USB/CD page, this page appears.



While in this page, you can select files or folders, and press the Select button in the display to add them to the list of files to be written on a CD.

After having selected all the desired files and/or folders, press the Next> button to go to the "Edit List" page. When in the "Edit

List" page you will be able to return back to this page and continue adding files or folders.

Device pop-up menu

Use this menu to select one of the available storage devices. Note you can also select removable devices, like a floppy disk or a CD, but you cannot remove them until the Pa1X has finished creating the image file (see "Save IMG" below).

Open button

Opens the selected folder (whose name begins with the "_____icon.

Close button

Closes the current folder, returning to the parent ("upper") level.

Select

Selects the highlighted file or folder, and adds it to the list of files to be written to CD. *Greyed-out until a file or folder is selected*.

Next>

Jumps to the "Edit List" page. *Greyed-out until a file or folder has been added to the list.*

Exit

Exits from the CD Writing mode, and returns to the "USB/CD" page. The mastering list will remain in memory.

Folders, Files, Total Size

These (non-editable) indicators show the total number of folders and files included in the list, and their overall size.

When the total size of added data exceeds about 650 MB, the Total Size parameter turns to red, showing that there are too many data to fit in a normal CD.

Edit List page

While in this page, you can see and edit the list of files and/or folders to be written to a CD or image file.

CD: Edit List	
CD Label: T NewPa1XCD	
DIRECTHD	
C KARA	
	-
Del All Delete Save IMG Write CD	
<pre></pre>	
Files: 34 Total Size: 143	Mb

While in this page, you can delete files or folders by pressing the Delete or Del All button, or press the <Back button to go back to the "Select Files" page and add other files.

When the list is done, you can either save it to disk as an image file by pressing the Save IMG button, or write a CD by pressing the Write CD button.

CD Label

Press the **T** (Text Edit) button to open the Text Edit window, and assign a name to the CD. Enter the name, then press OK to confirm and close the Text Edit window.

Del All

Press this button to delete the whole list.

Delete

Select an item in the list, then press this button to delete it.

Save IMG

Press this button to save an ISO image file to disk. The generated image complies with the ISO9660 Mode 1/2048 format (common to most CD-burning applications, such as Ahead Software[™] Nero[®], Roxio[™] Easy CD Creator[®], or Roxio[™] Toast[®]).

After you press this button, listed data are collected, and the "Writing ISO image file" message appears in the display.

Wait please	
Writing ISO Image file	
	6%
Stop	

Note: Please do not remove any removable media (such as floppy disks or CDs) during this phase.

This procedure may last for several minutes, depending on the amount of data to be written. It is split in three consecutive steps:

- 1) Folders/files are scanned in the source devices.
- 2) The ISO image file is prepared.
- 3) The ISO image file is written to the hard disk.
- A progress bar will inform you of the step's status.

Write CD

Press this button to open the "Write CD" dialog box, and write a CD. See "Write CD dialog box" below.

<Back

Press this button to return to the "Select Files" page and add other files to the list.

Exit

Exits from the CD Writing mode, and returns to the "USB/CD" page. The mastering list will remain in memory.

Folders, Files, Total Size

These (non-editable) indicators show the total number of folders and files included in the list, and their overall size.

When the total size of added data exceeds about 650 MB, the Total Size parameter turns to red, showing that there are too many data to fit in a normal CD.

Write CD dialog box

This dialog box allows you to set the parameters for CD writing.

Write CD
Speed: 🕨 Average
🔽 Simulation 🔽 Close CD
Cancel CD Info Write CD

Speed

Use this pop-up menu to select the writing speed. Depending on the blank CD quality, higher speeds may also mean less-reliable data writing.

Simulation

When this parameter is checked, the CD will not be actually written. Instead, a simulation procedure will start, to let you see if the writing speed is too high, and should be lowered.

While in simulation mode, the Write CD dialog box's title will change to "Write CD - Simulation Mode".

At the end of the simulation procedure, the CD is automatically ejected.

Close CD

With operating system version 2.0, Pa1X can only write a single session on a CD. However, the CD can be left open, to let you add other sessions from a PC or Mac on the same CD.

- Check this parameter if you want to close ("finalize") the CD. When the CD is closed, you cannot add further data to it. This is useful when the CD's content is complete and the disk must be delivered or archived.
- Leave it unchecked if you want to add further data later.

Note: If this parameter is not checked, Pa1X needs an additional 13MB (approx.) of space on the CD. However, if this space is not available, the disk is automatically closed (and this parameter is automatically checked).

Note: While Pa1X-generated CDs, left open for further addition of data, can be used by most CD-burning applications, we cannot warrant full compatibility with them, due to the fast-changing way their features are implemented.

Cancel

Exits from the dialog box, and returns to the previous page.

CD Info

Select this command to see various info on the selected CD.

Write CD

Press this button to start writing the CD, or the Simulation procedure. You will be asked to insert a blank CD into the CD Writer.

In case you insert a CD-RW (rewritable) containing data, you are asked if you want to delete all its content. Warning: This will delete all the data already contained on the CD-RW!

Note: If the Write operation fails on a rewritable CD (CD-RW), the CD is automatically erased. Please try again with a slower writing speed. If this doesn't work, go to the Disk > Format page, and perform a Full Format of the CD.

Page menu

Press the page menu icon to open the menu. Press a command to select it. Press anywhere in the display to close the menu without selecting a command.

Create New Folder
Rename
Tree Info
Device Info
Protect
Unprotect
Ordered by Name
 Ordered by Type
Ascending/Descending
Write Global - Disk Preferences

Create New Folder

This command lets you create a new folder in the root of any disk, or inside any generic folder. You can't create or open ".SET" folders with this command, since these are reserved folders, to be created during a Save operation by using the New SET button.

Create New Folder
T NEWNAME
Cancel OK

By pressing the **T** (Text Edit) button you can open the Text Edit window. Enter the name, then press OK to confirm and close the Text Edit window.

Rename

Available only when an item is selected in a file list.

Use this function to change the name of a file or folder. To preserve consistency through the data structure, you cannot rename single files inside a ".SET" folder. Also, you cannot change the 3character extension of files and ".SET" folders, identifying the type of file or folder.



Press the \mathbf{T} (Text Edit) button to open the Text Edit window. Enter the new name, then press OK to confirm and close the Text Edit window.

Object info

Select this command to see the size of any selected file or folder on disk. Also, the number of files and directories it contains are shown.

Object Info		
Name:	CLUB.SET	
Size:	2.6 M bytes	
Directory:	6	
File:	29	
ОК		

Note: The **single file** size is always shown on the right of the file name in any file list:

Type * Name	Size	Date	
HONEST.KAR	13К	05-08-03 12:55	

Device Info

Select this command to see various info on the selected device. To select a different device, use the Device pop-up menu on the lower left corner of most Disk pages.

Device Information		
Label:	KORG_HD	
Total size:	1.9 G bytes	
Free size:	1.4 G bytes	
Damaged size:	0.00 bytes	
	ОК	

Protect

Select this command to protect the selected file or folder from writing/erasing. The lock icon will appear next to the file or folder name.



Unprotect

Select this command to unprotect the selected file or folder – if protected.

Ordered by Name

Select this display option to see the list of files and folders in rough alphabetical order, with different file types mixed in the list. The File label, above the file list, is shown in red.



Ordered by Type

Select this display option to see the list of files and folders ordered by type. Inside any type group, files are still in alphabetical order. The Type label, above the file list, is shown in red.



Ascending/Descending

Use this command to switch between the ascending (Numbers, A...Z) and descending (Z...A, Numbers) order.

Write Global-Disk Preference

Select this command to open the Write Global-Disk Preferences dialog box, and save settings executed in the Preferences page (see "Preferences" on page 265).

Write Global – Disk Preferences	1
Write Global - Disk Preferences to memory?	
Cancel OK	

Parameters saved in the Disk Preferences area of the Global are marked with the **>GBL**^{Dsk} symbol through the user's manual.

Disk handling

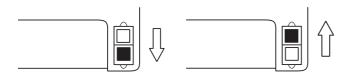
The Pa1X can save most of the data contained in memory on the internal hard disk (if fitted), or on a 3,5" DS-DD disk (720KB capacity) or HD (1,44MB capacity), MS-DOS®-formatted. Here are some precautions when handling disks.

Floppy disk write protection

You can protect a disk from the accidental overwriting of data, by opening the write protect hole. To protect the disk from overwriting, slide the protection flap so that the hole becomes visible.

To write-protect the disk: move the flap and open the hole

ve To write-enable the disk: move le the flap to close the hole



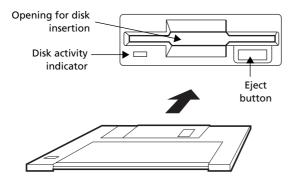
Hard disk write protection

You can protect your hard disk from writing, by using the software protection found in Disk mode (see "Hard Disk Protect" on page 265).

Inserting a floppy disk

Insert the disk delicately into the disk drive, with the label facing upwards and the metal part to the front. Press it in as far as it will go.

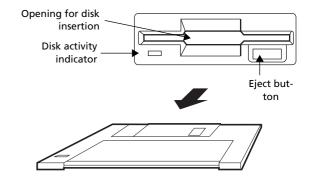
Note: The Pa1X incorporates a new type of disk drive and you cannot hear "click" when the disk is inserted into place.



Removing a floppy disk

Before removing a disk, make sure that the disk activity indicator is off. If the LED is off, remove the disk by pressing the eject button.

Warning: Do not remove the disk if the disk activity indicator is lit up.



Cleaning the floppy disk heads

The disk drive read/write heads get dirty with use and become less accurate. You can clean the heads with a special cleaning disk, you can purchase from any computer or musical instrument store. Use a 3.5" DS wet type head cleaning disk; and carefully follow the instructions included with it.

Precautions

- Do not remove a floppy disk or move the instrument while the disk drive or hard disk is operating.
- Make a backup copy of the disks, in order not to lose data forever in case of damage. You can backup your floppy disks to the internal hard disk or on a personal computer. The internal hard disk can be backed up on a personal computer's hard disk, by using the USB connection.
- Do not open the metallic shutter on a floppy disk, and do not touch the surface of the magnetic media inside it. If the magnetic media becomes scratched or soiled, data can be lost.
- Do not leave a disk in the disk drive while carrying the instrument: the read/write heads may scratch the disk and damage saved data.
- Keep the floppy disks or the instrument away from sources of magnetic fields, for example televisions, refrigerators, computers, monitors, speakers and transformers. Magnetic fields can alter the contents of the disks.
- Do not keep floppy disks in very hot or wet places, do not expose them to direct sunlight and do not store them without use in dusty or dirty places.
- Do not place heavy objects on top of the disks.
- After use, replace the disks in a case.

Possible problems

- In exceptional cases, a floppy disk can get stuck in the disk drive. In order to avoid this happening, you should only use high quality disks. If the disk does get stuck, do not try to force it out using sharp objects. Contact your local dealer or your nearest Korg Service Center.
- Magnetic fields, dirt, humidity and usage can damage data on disk. You can try to recover the data with disk repair utilities for personal computers. It is, however, advisable to make a backup copy of data.

Bonus software

With Pa1X Pro, three ".SET" folders have been saved in the internal hard disk, with the whole content of Korg's "Real Drums" and "Turkish/Arabic World" collections, formerly available as separate cards for the Pa80/Pa60 series.

These are high quality sound sets, based on additional RAM PCM Samples. Go to www.korgpa.com for more information.

To load these sounds, select either the REALDRUM.SET or TA_WORLD.SET folder from the hard disk. By loading the BONUS_SW.SET folder, you can load both collections at the same time.

Warning: When loading the above folders, all User data in memory is deleted. Save important data to disk, before loading the bonus software.

Note: After turning the instrument off, all samples are deleted from the RAM memory. You can either have them automatically reloaded when turning the instrument on again (see "PCM Autoload" on page 265), or manually load them (see "Load PCM button" on page 266).

MID

What is MIDI?

Here is a brief overview of MIDI, as related to the Pa1X. If interested, you may find more information on the general use of MIDI in the various specialized magazines and dedicated books.

In general

MIDI stands for Musical Instruments Digital Interface. This interface lets you connect two musical instruments, or a computer and various musical instruments.

Physically, MIDI is composed of three different connectors. The MIDI IN receives data from another device; the MIDI OUT sends data to another device; the MIDI THRU sends to another device exactly what was received on the MIDI IN (this is useful to daisy-chain more instruments).

On the Pa1X there are two separate sets of MIDI ports, labeled IN A, OUT A, IN B, OUT B. Each OUT port may work as a THRU port, depending on the status of the "MIDI A Out/Thru Mode" and "MIDI B Out/Thru Mode" parameters in the Global mode (see page 231).

Channels and messages

Basically, a MIDI cable transmits 16 channels of data. Think to each MIDI channel as a TV channel: the receiver must be set on the same channel of the transmitter. The same happens with MIDI messages: when you send a Note On message on channel 1, it will be received on channel 1 only. This allows for multitimbricity: you can have more than one sound playing on the same MIDI instrument.

There are various messages, but here are the most commonly used:

Note On – This message instructs an instrument to play a note on a specific channel. Notes have both a name (C4 standing for the center C) and a number (60 being the equivalent for C4). A Note Off message is often used to say the note has been released. In some case, a Note On with value "0" is used instead.

Together with the Note On message, a Velocity value is always sent. This value tells the instrument how loud the note must play.

After Touch – This message is generated by pressing on the keyboard, after the note has been struck. It usually activates vibrato, or other sound parameters.

Pitch Bend (**PB**) – You can generate this message acting on the joystick (X direction). The pitch is translated up or down.

Program Change (PC) – When you select a Sound, a Program Change message is generated on the channel. Use this message, together with Control Change 00 and 32, to remotely select Pa1X data from a sequencer or a master keyboard.

Control Change (CC) – This is a wide array of messages, controlling most of the instrument parameters. Some examples:

- CC00, or Bank Select MSB, and CC32, or Bank Select LSB. This message pair is used to select a Sound Bank. Together with the Program Change message, they are used to select a Sound.
- CC01, or Modulation. This is the equivalent of pressing up the joystick. A vibrato effect is usually triggered on.
- CC07, or Master Volume. Use this controller to set the channel's volume.
- CC10, or Pan. This one sets the channel's position on the stereo front.
- CC11, or Expression. Use this controller to set the relative volume of tracks, with the maximum value matching the current setting of the CC07 control.
- CC64, or Damper Pedal. Use this controller to simulate the Damper pedal.

Tempo

Tempo is a global MIDI message, that is not tied to a particular channel. Each Song includes Tempo data.

Lyrics

Lyrics are non-standard MIDI events, made to display text together with the music. Pa1X can read many of the available Lyrics format on the market.

Standard MIDI Files

Midifiles, or Standard MIDI Files (a.k.a. SMF), are a practical way of exchanging songs between different instruments and computers. Pa1X uses the SMF format as its default song format, so reading a song from a computer, or saving a song that a computer software can read, is not a problem at all.

The Pa1X sequencers are compatible with the SMF in format 0 (all data in one track; it is the most common format) and 1 (multitrack). It can read the SMF in Song Play mode and modify/save them in Sequencer mode. It can save a song in SMF 0 format in the Sequencer mode.

When in Song Play mode, the Pa1X can also display SMF lyrics in Solton, M-Live (Midisoft), Tune1000, Edirol, GMX, HitBit, and XF formats, and the chord abbreviations of SMF in Solton, M-live (Midisoft), GMX, and XF format.

Note: The above trademarks are the property of their respective holders. No endorsement is intended by inclusion in this list.

Standard MIDI Files usually have the ".MID" or ".KAR" filename extension.

The General MIDI standard

Some years ago, the musical instruments world felt a need for some further standardization. Then, the General MIDI Standard (GM) was born. This extension of the basic MIDI sets new rules for compatibility between instruments:

- A minimum of 16 MIDI channels was required.
- A basic set of 128 Sounds, correctly ordered, was mandatory.
- The Drum Kit had a standard order.
- Channel 10 had to be devoted to the Drum Kit.

A most recent extension is the GM2, that further expands the Sounds database. The Pa1X is soundwise-compatible with the GM2 standard.

The Global channel

Any channels with the Global option assigned (see "MIDI: MIDI In Channels" on page 232) can simulate the Pa1X integrated keyboard. When the Pa1X is connected to a master keyboard, transmission should take place over the Global channel of the Pa1X.

The MIDI messages received over a Global channel and not over a standard channel are affected by the buttons of the KEY-BOARD MODE section, as well from the split point. Therefore, if the SPLIT button LED is lit up, the notes that arrive to the Pa1X over this channel will be divided by the split point into the Upper (above the split point) and Lower (below the split point) parts.

The notes that arrive to a Global channel are used for the chord recognition of the automatic accompaniment. If the KEY-BOARD MODE is SPLIT, only the notes below the split point will be used. These notes will be combined with the ones of the special Chord 1 and Chord 2 channels.

The Chord 1 and Chord 2 channels

You can set two special Chord channels (see page 232) to send to the Pa1X notes for the chord recognition. The notes will be combined with the notes that go through the channel set as Global (Global notes are recognized only under the split point, if the SPLIT LED is lit up).

The Chord channels are not affected by the split point and the KEYBOARD MODE section of the control panel. All the notes – both above and below the split point – will be sent to the chord recognition.

The buttons of the CHORD SCANNING section have a particular effect on the Chord channels:

• if you have selected LOWER, the chord recognition mode will be set by the "Chord Recognition Mode" parameter in the Style Play mode (see page 93);

if you have selected UPPER or FULL, the chord recognition mode will always be Fingered 2 (you need to play at least three notes in order for the chord to be detected).

These two channels are especially useful for accordion players to assign a different Chord channel to the chords and the bass played with the left hand. In this way, chords and bass will participate to the creation of chords for the chord recognition of the automatic accompaniment.

The Control channel

You can set a MIDI IN channel as the Control channel (see page 232), to select Styles and Performance from an external device. See the Appendix for a list of messages corresponding to Pa1X internal data.

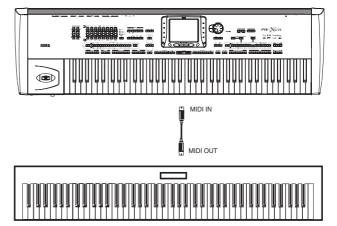
MIDI Setup

You can play Pa1X with an external controller, and use it simply as a powerful sound generator. To help you configure the MIDI channels, we have provided a set of MIDI Setups (see "Midi Setup" on page 94 for the Style Play mode, "Midi Setup" on page 149 for the Song Play mode, and "MIDI Setup" on page 230 for the Global mode).

We recommend you to consider each MIDI Setup as a starting point you can freely tweak. Once you have selected the most appropriate MIDI Setup for the connection to be made, you can modify the parameters as necessary and save them in a MIDI Setup (see "Write Global - Midi Setup dialog box" on page 251).

Connecting Pa1X to a Master keyboard

You can control the Pa1X with a master keyboard or any other MIDI keyboard. You only need to connect the MIDI OUT connector of the master keyboard to the MIDI IN connector of the Pa1X. The master keyboard will become the integrated keyboard of the Pa1X if it transmits over the same channel programmed as Global in the Pa1X.



If the master keyboard transmits over the Global channel of the Pa1X, the split point and the status of the KEYBOARD MODE

section in the control panel will affect the notes received from the master keyboard.

Connections and settings

To connect the master keyboard to the Pa1X follow this procedure:

- 1. Connect the MIDI OUT connector of the master keyboard to one of the MIDI IN connectors of the Pa1X (IN A suggested).
- 2. Program the master keyboard to transmit over the Global channel of the Pa1X (see "MIDI: MIDI In Channels" on page 232).

For information on the master keyboard programming, see the master keyboard own user's manual.

3. Select the MIDI Setup parameter. You can do this by going to the "MIDI: MIDI Setup / General Controls" page of the Global mode, or in the dedicated page of the Style Play, Song Play or Sequencer mode (see "Midi Setup" on page 94, "Midi Setup" on page 149, and "Midi Setup" on page 181).

Note: A different MIDI Setup may be selected for the Style Play, Song Play and Sequencer modes. The "1-Default" MIDI Setup is automatically selected when entering the Sound Edit mode. MIDI settings are therefore modified when switching to a different operating mode. The current MIDI Setup is also shown in the Global mode.

4. Select the "Master Keyboard" MIDI Setup.

Note: Settings may change when new Global data is loaded from disk. To protect settings from loading, use the Global Protect function (see "Global Protect" on page 265).

- 5. To save the assigned MIDI Setup for the selected operative mode into the Global, select the "Write Global-Style Setup", the "Write Global-Song Play Setup", the "Write Global-Seq. Setup", or the "Write Global-Global Setup" command from the page menu.
- 6. If needed, press one of the buttons in the MODE section to go to the desired operative mode.

Connecting the Pa1X to a MIDI accordion

There are various types of MIDI accordions, each one requiring different MIDI settings. Pa1X is provided with a series of "Accordion" MIDI Setups, each one suitable for a different MIDI accordion (see page 230).

Connection and settings

To connect the accordion to the Pa1X follow this procedure:

- 1. Connect the MIDI OUT connector of the accordion to one of the MIDI IN connectors of the Pa1X (IN A suggested).
- 2. Select the MIDI Setup parameter. You can do this by going to the "MIDI: MIDI Setup / General Controls" page of the Global mode, or in the dedicated page of the Style Play, Song Play or Sequencer mode (see "Midi Setup" on page 94 and "Midi Setup" on page 149).

Note: A different MIDI Setup may be selected for the Style Play, Song Play and Sequencer modes. The "1-Default" MIDI Setup is automatically selected when entering the Sound Edit mode. MIDI settings are therefore modified when switching to a different operating mode. The current MIDI Setup is also shown in the Global mode.

3. Select one of the available "Accordion" MIDI Setups.

Note: Settings may change when new Global data is loaded from disk. To protect settings from loading, use the Global Protect function (see "Global Protect" on page 265).

- 4. To save the assigned MIDI Setup for the selected operative mode into the Global, select the "Write Global-Style Setup", the "Write Global-Song Play Setup", the "Write Global-Seq. Setup", or the "Write Global-Global Setup" command from the page menu.
- 5. If needed, press one of the buttons in the MODE section to go to the desired operative mode.

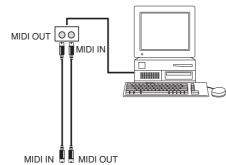
Connecting the Pa1X to an external sequencer

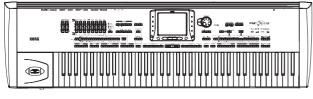
You can program a new song on an external sequencer, using Pa1X as a multi-timbral expander.

Connections and settings

In order to connect the Pa1X to a computer, you need to have a computer with the MIDI interface.

1. Connect the Pa1X and the computer as in the following diagram.





- 2. Activate the "MIDI Thru" function on the external sequencer.
- 3. Press GLOBAL, and go to the "MIDI: MIDI Setup / General Controls" page. uncheck the "Local Control On" parameter (see page 231). This is called the "Local Off status".
- Press SEQUENCER to go to the Sequencer mode. Go to the "Preferences: Global Setup" page (see page 181). Select the "Extern.Seq." MIDI Setup.

Note: Settings may change when new Global data is loaded from disk. To protect settings from loading, use the Global Protect function (see "Global Protect" on page 265).

- 5. Select the "Write Global-Seq. Setup" command from the page menu to save the assigned MIDI Setup to the Global.
- 6. Play the keyboard. Notes played on the keyboard go from the MIDI OUT of the Pa1X to the MIDI IN of the computer/MIDI interface.

Notes generated by the computer (i.e. a song played by its sequencer) are sent through the MIDI OUT of the MIDI interface to the MIDI IN connector of the Pa1X.

The Local Off

When the Pa1X is connected to an external sequencer, we recommend you to set the Pa1X in Local Off mode (see "Local Control On" on page 231) to avoid that the notes are simultaneously played by the keyboard and by the MIDI events sent by the external sequencer.

When the Pa1X is in Local Off, the Pa1X keyboard transmits data to the external sequencer, but not to the internal sound generation. The sequencer will receive the notes played on the Pa1X keyboard and send them to the selected track of the song. The track will transmit the data to the internal sound generation of the Pa1X.

Note: In order to send data to the Pa1X sound generation, the "MIDI Thru" function must be activated in the external sequencer (normally active; the name may be different according to the type of sequencer). For more information refer to the instructions manual of the sequencer.

The Sounds

The song that is played back by the computer sequencer can select Pa1X Sounds through the MIDI messages Bank Select MSB, Bank Select LSB (bank selection, two messages), and Program Change (Sound selection). For a list of Sounds and MIDI values, see "Sounds" on page 285.

A suggestion for those who program songs on computer: Even though it is not essential, you usually set the bass on channel 2, melody on channel 4, drum kit on channel 10, control of the Pa1X voice harmonizer on channel 5.

Playing another instrument with the Pa1X

You can use the Pa1X as the master controller for your MIDI setup.

- 1. Connect one of Pa1X MIDI OUT connectors to the other instrument's MIDI IN.
- 2. Set the other instrument to the same channels you want to play from Pa1X. For example, if you wish to play the Upper 1 and Upper 2 tracks with sounds of the other instrument, enable the other instrument to receive on the same channels Pa1X is transmitting from tracks Upper 1 and Upper 2 (by default, channels 1 and 2).
- **3.** Set the master volume of the other instrument with its own volume controls.
- 4. Mute/unmute any track right from the Pa1X. Adjust each track's volume by using Pa1X sliders.
- **5**. Play the keyboard of the Pa1X.

The Keyboard

Pa1X's keyboard can drive up to four tracks via the MIDI OUT (Upper 1-3 and Lower). MIDI output channels are set in Global mode (see "MIDI: MIDI Out Channels" on page 232).

As a default situation ("1-Default" MIDI Setup), each of Pa1X Keyboard tracks transmit on the following channels:

Track	Out Channel
Upper1	1
Upper2	2
Upper3	3
Lower	4

When a track is muted, it cannot transmit any MIDI data to an external expander or sequencer connected Pa1X's MIDI OUT.

To hear only the expander's sounds, you can lower the MASTER VOLUME control on the Pa1X, or set the Keyboard tracks to the External status (see "Track Controls: Mode" on page 176).

The Sequencer

Any Sequencer's track can drive a channel on an external instrument. To set each track's MIDI output channel, see "MIDI: MIDI Out Channels" on page 232.

To hear only the expander's sounds, you can lower the MASTER VOLUME control on the Pa1X, or set the Song tracks to the External status (see "Track Controls: Mode" on page 176).

Select the "Sequencer 1" or "Sequencer 2" MIDI Setup (depending on the Sequencer you are using on the Pa1X) to set the channels as follows.

Track	Out Channel
Song 116	116

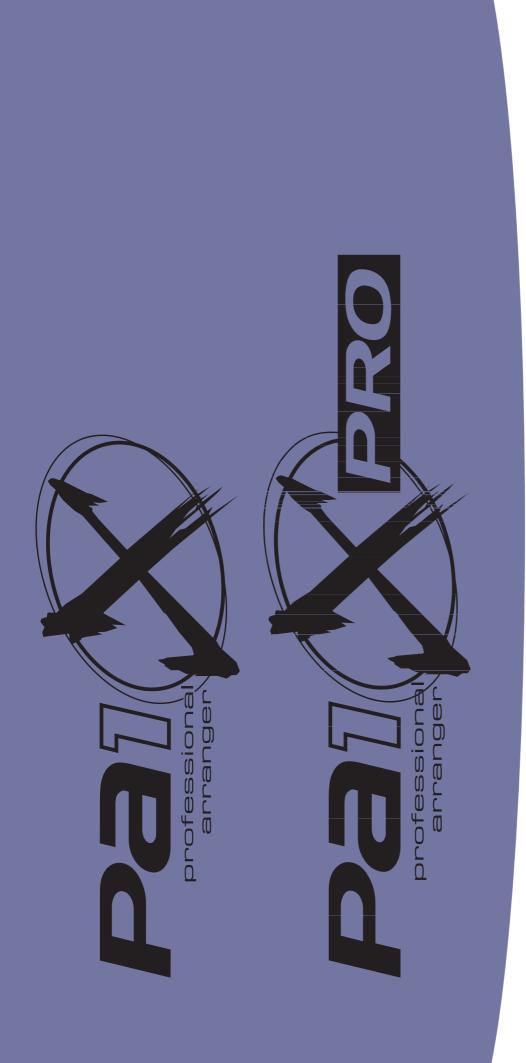
The Arranger

One of the most interesting aspect of MIDI, is that you can use your Pa1X to play an external instrument with its onboard arranger. Yes, it's hard to beat the audio quality of Pa1X, but you could wish to use that old faithful synth you are still accustomed to...

To assign some of Pa1X Style tracks to an external instrument, set them to the External status (see "Track Controls: Mode" on page 176).

Select the "Default" MIDI Setup to set the channels as follows (this is the default status of Pa1X).

Track	Out Channel
Bass	9
Drums	10
Percussion	11
Acc15	1216



Factory data

Styles

Note: You can remotely select Styles on the Pa1X, by sending it Bank Select MSB (CC#0), Bank Select LSB (CC#32) and Program Change messages on the Control channel (see "MIDI: MIDI In Channels" on page 232).

#	CC#0	CC#32	PC	Bank: 8/16 Beat 1	CC#0	CC#32	PC	Bank: 8/16 Beat 2	CC#0	CC#32	PC	Ballad
1	0	0	0	Moonlight Ballad	0	1	0	Kool Beat	0	2	0	Funky Ballad
2			1	Easy Beat			1	Unplugged 16 Bt	1		1	Easy Ballad 3
3			2	Slow HipHop			2	Real 16 Beat	1		2	Analog Ballad
4	1		3	Unplugged Gtr1			3	Guitar Beat	1		3	Groove Ballad
5			4	British Pop 1			4	Easy Pop	1		4	Unplugged Gtr 3
6	1		5	Pop Chart 1			5	Standard 16 Bt 1	1		5	Pop & Sea
7	1		6	Soft Ballad			6	Unplugged Rock	1		6	Meditando
8]		7	Easy Ballad 1			7	Pop Hits	1		7	Unplugged Gtr 4
9	1		8	British Pop 2			8	Half Time Lite	1		8	Unplugged Gtr 5
10	1		9	Classic 8 Bt 1			9	Analog Beat 1	1		9	Serenade
11			10	Classic 8 Bt 2			10	Analog Beat 2	1		10	Unplugged Bld 1
12	1		11	Soft Beat 1			11	Guitar Ballad 1	1		11	Acoustic Ballad
13	1		12	Unplugged 8 Bt 1			12	Guitar Ballad 2	1		12	Unplugged Bld 2
14			13	Light Rock 1			13	8 Beat Analog 1	1		13	Pop Jazz
15	1		14	Light Rock 2			14	Analogyst	1		14	Diva
16	1		15	Easy Ballad 2			15	8 Beat Analog 2	1		15	Rock Ballad 1
17	1		16	Soft Beat 2			16	Trendy Beat	1		16	Folk Ballad
18	1		17	Pop Beat 2			17	Slow Ballad	1		17	Pop Ballad 2
19			18	Standard 8 Beat			18	6 Strings Beat	1		18	Half Time Ballad
20	1		19	Unplugged 8 Bt 2			19	Half Time Guitar	1		19	Country Ballad 1
21	1		20	Love 8 Beat			20	Standard 16 Bt 2	1		20	4/4 Ballad
22			21	Half Beat			21	Pop 16 Beat 1	1		21	Love Ballad
23	1		22	UK 8 Beat			22	Pop 16 Beat 2	1		22	Natural Beat
24	1		23	8 Beat Groove			23	Cinema Ballad	1		23	Celtic Ballad
25			24	UK R & B			24	Windy Beat	1		24	16 Beat Analog 1
26			25	Pop Ballad 1			25	Home Beat	1		25	Color Beat
27]		26	HipHop Beat			26		1		26	Pop Ballad 3
28	1		27	Miami Beat	1		27		1		27	8 Beat Analog 3
29	1		28	Classic Beat 3			28		1		28	16 Beat Analog 2
30	1		29	Real 8 Beat			29		1		29	
31	1		30	Easy Groove	1		30		1		30	
32			31				31		1		31	

#	CC#0	CC#32	PC	Bank: Ballroom	CC#0	CC#32	PC	Bank: Dance	CC#0	CC#32	PC	Bank: Rock
1	0	3	0	Easy Listening	0	4	0	Dance Fever	0	5	0	Big Band Jump
2			1	Pop Shuffle	İ		1	Groove It Up		Ī	1	English Rock
3		İ	2	Slow Band	1		2	Club Latin		ľ	2	Open Rock 1
4			3	Foxtrot 1	1		3	Barry Dance		Ī	3	Open Rock 2
5			4	Organ Foxtrot]		4	Sister & Girl			4	Pop Rock
6			5	Movie Ballad			5	Philly Disco			5	Fire Rock
7			6	Pop Chart 2			6	Oriental Dance 1			6	Hard Rock
8			7	Candy & Sweet	-		7	Twist		-	7	Heavy Rock
9			8	Organ Waltz	-		8	House Garage		-	8	South Strait
10			9	Slow Waltz 1	-		9	House		-	9	South Shuffle
11	-	-	10	Slow Waltz 2	1		10	Dream Trackers	-	-	10	Rock Shuffle
12 13			11 12	Slow Waltz 3 Slow Waltz 4	-		11 12	Techno Underground		-	11 12	Rock Ballad 2 Half Time
13			12	Slow Waltz 5	1		12	Progressive		-	12	Rock 6/8
14	-	-	13	Slow 6/8	1		13	Jungle		-	13	Abbey Road
16		-	14	Slow Pop	1		14	Rap		-	15	Soft Rock
17		-	16	Slow Rock 1	ł		16	НірНор		-	16	Surf Rock
17		-	17	Slow Rock 2	ł		17	Disco 70	-	-	17	Pop Shuffle 1
19			18	Unpl. Slow Rock	ł		18	80's Dance		-	18	Blues Shuffle
20			19	Big Band Fox 1	ł		19	Love Disco			19	60's Rock
21			20	Big Band Fox 2	ł		20	Disco Party			20	Rock & Roll
22		-	21	Big Band Fox 3	1		21	Disco Funky		-	21	
23			22	Operetta	1		22	Disco Gully		ľ	22	
24			23	Quick Step 1	1		23	Dance 80			23	
25			24	Quick Step 2	İ		24			Ī	24	
26			25	New Jive	1		25			Ī	25	
27		İ	26	Charleston	1		26			Ī	26	
28			27	Foxtrot 2	1		27			Ī	27	
29			28	Slow Fox]		28				28	
30			29	Foxtrot 3			29				29	
31			30				30				30	
32			31				31				31	
#	CC#0	CC#32	PC	Bank: Soul & Funk	CC#0	CC#32	PC	Bank: World 1	CC#0	CC#32	PC	Bank: World 2
1	0	6	0	Kool Funk	0	7	0	Oberkr. Waltz 1	0	8	0	Hawaiian
2		-	1	Swing HipHop	-		1	Oberkr. Waltz 2		-	1	Country Beat
3		-	2	Funky Sisters Steely Feel	-		2	Oberkr. Waltz 3			2	Folk Beat
5		-	2	Judely reel				Obarkr Balka 1				
6			4	Al Funk	ł		3	Oberkr. Polka 1 Oberkr. Polka 2		-	3	Kountry Pop
7			4	Al Funk Elektrik Funk			4	Oberkr. Polka 2		-	3 4	Kountry Pop Bluegrass
8		-	5	Elektrik Funk	-		4 5	Oberkr. Polka 2 German Polka 1		-	3 4 5	Kountry Pop Bluegrass Country 8 Beat
0							4	Oberkr. Polka 2		-	3 4	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat
8 9		-	5 6	Elektrik Funk Classic Funk	-		4 5 6	Oberkr. Polka 2 German Polka 1 German Polka 2		-	3 4 5 6	Kountry Pop Bluegrass Country 8 Beat
		-	5 6 7	Elektrik Funk Classic Funk Talkin' Jazz	- - -		4 5 6 7	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1		-	3 4 5 6 7	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country Beat
9			5 6 7 8	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle	-		4 5 6 7 8	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka		-	3 4 5 6 7 8	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country Beat Modern Country
9 10		-	5 6 7 8 9	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk	- - - - -		4 5 6 7 8 9	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2		-	3 4 5 6 7 8 9	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country Beat Modern Country Country Boogie
9 10 11		-	5 6 7 8 9 10	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad	- - - - - -		4 5 6 7 8 9 10	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 1 Polka Pop 2 Party Polka		-	3 4 5 6 7 8 9 10	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Ballad 2
9 10 11 12		-	5 6 7 8 9 10 11 11 12 13	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1	· · · ·		4 5 6 7 8 9 10 11	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 1 Polka Pop 2 Party Polka Classic Flipper		-	3 4 5 6 7 8 9 10 11 12 13	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Ballad 2 Country 3/4
9 10 11 12 13 14 15		-	5 6 7 8 9 10 11 12 13 14	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2			4 5 6 7 8 9 10 11 11 12 13 14	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 1 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8		-	3 4 5 6 7 8 9 10 11 11 12 13 14	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Ballad 2 Country 3/4 Orleans
9 10 11 12 13 14 15 16		-	5 6 7 8 9 10 11 12 13 14 15	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle			4 5 7 8 9 10 11 12 13 14 15	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 1 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4			3 4 5 6 7 8 9 10 11 12 13 14 15	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 1 Country Shuffle 2 Country Ballad 2 Country 3/4 Orleans Celtic Waltz
9 10 11 12 13 14 15 16 17			5 6 7 8 9 10 11 12 13 14 15 16	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk			4 5 7 8 9 10 11 12 13 14 15 16	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 1 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager			3 4 5 7 8 9 10 11 12 13 14 15 16	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country Ballad 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz
9 10 11 12 13 14 15 16 17 18			5 6 7 8 9 10 11 12 13 14 15 16 17	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk			4 5 7 8 9 10 11 12 13 14 15 16 17	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 1 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager			3 4 5 7 8 9 10 11 11 12 13 14 15 16 17	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Boogie Country Shuffle 1 Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country J/4 Orleans Celtic Waltz Mexican Waltz Norteno 1
9 10 11 12 13 14 15 16 17 18 19			5 6 7 8 9 10 11 12 13 14 15 16 17 18	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1			4 5 7 8 9 10 11 12 13 14 15 16 17 18	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 1 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager			3 4 5 7 8 9 10 11 12 13 14 15 16 17 18	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country Shuffle 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4
9 10 11 12 13 14 15 16 17 18 19 20			5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1 Double Beat			4 5 7 8 9 10 11 12 13 14 15 16 17 18 19	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 2 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager Disco Schlager			3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country Shuffle 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4 Norteno 2
9 10 11 12 13 14 15 16 17 18 19 20 21			5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1 Double Beat Groove			4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 2 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager Disco Schlager Schlager 1			3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country JA Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4 Norteno 2 Quebradita
9 10 11 12 13 14 15 16 17 18 19 20 21 21 22			5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1 Double Beat Groove Jazz Funk			4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 1 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager Disco Schlager Schlager 1 Schlager 2			3 4 5 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4 Norteno 2 Quebradita Tejano
9 10 11 12 13 14 15 16 17 18 19 20 21 21 22 23			5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1 Double Beat Groove Jazz Funk Al Swing			4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 2 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager Disco Schlager Schlager 1 Schlager 2 Schlager 3			3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country Ballad 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4 Norteno 2 Quebradita Tejano Cajun
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24			5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1 Double Beat Groove Jazz Funk Al Swing HipHop Funk			4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 2 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager Disco Schlager Schlager 1 Schlager 2 Schlager 3 Schlager 4			3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country Ballad 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4 Norteno 2 Quebradita Tejano Cajun Zydeco
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25			5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1 Double Beat Groove Jazz Funk Al Swing HipHop Funk			4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 2 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager Disco Schlager Schlager 1 Schlager 2 Schlager 3 Schlager 4 Pop Schlager			3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country Ballad 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4 Norteno 2 Quebradita Tejano Cajun
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26			5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1 Double Beat Groove Jazz Funk Al Swing HipHop Funk HipHop Soul Motown Shuffle			4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 2 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager Disco Schlager Schlager 1 Schlager 2 Schlager 3 Schlager 4 Pop Schlager Petry Rock 1			3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country Ballad 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4 Norteno 2 Quebradita Tejano Cajun Zydeco
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27			5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1 Double Beat Groove Jazz Funk Al Swing HipHop Funk HipHop Soul Motown Shuffle Pop Ballad 4			4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 1 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager Disco Schlager Disco Schlager Schlager 1 Schlager 2 Schlager 3 Schlager 4 Pop Schlager Petry Rock 1 Petry Rock 2			3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 21 22 23 24 22 23 24 25 26	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country Ballad 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4 Norteno 2 Quebradita Tejano Cajun Zydeco
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28			5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1 Double Beat Groove Jazz Funk Al Swing HipHop Funk HipHop Soul Motown Shuffle Pop Ballad 4 Rhythm & Blues			4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 2 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager Medium Schlager Disco Schlager Schlager 1 Schlager 2 Schlager 3 Schlager 4 Pop Schlager Petry Rock 1 Petry Rock 2 Trucker			3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26 27	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country Ballad 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4 Norteno 2 Quebradita Tejano Cajun Zydeco
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29			5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1 Double Beat Groove Jazz Funk Al Swing HipHop Funk HipHop Soul Motown Shuffle Pop Ballad 4 Rhythm & Blues Soul 1			4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 2 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager Disco Schlager Disco Schlager Schlager 1 Schlager 2 Schlager 3 Schlager 4 Pop Schlager Petry Rock 1 Petry Rock 2 Trucker Schlager 5			3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21 21 22 23 24 22 23 24 25 26	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country Ballad 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4 Norteno 2 Quebradita Tejano Cajun Zydeco
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28			5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Elektrik Funk Classic Funk Talkin' Jazz Pop Shuffle Easy Funk Dance Funk Club Funk Blues Ballad Modern Gospel 1 Modern Gospel 2 Gospel Shuffle Rubber Funk Groove Funk Acid Jazz 1 Double Beat Groove Jazz Funk Al Swing HipHop Funk HipHop Soul Motown Shuffle Pop Ballad 4 Rhythm & Blues			4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Oberkr. Polka 2 German Polka 1 German Polka 2 Oberkr. Polka Bavarian Pop 1 Bavarian Pop 2 Polka Pop 2 Polka Pop 2 Party Polka Classic Flipper Flipper 6/8 Flipper 4/4 Dance Schlager Fox Schlager Medium Schlager Disco Schlager Schlager 1 Schlager 2 Schlager 3 Schlager 4 Pop Schlager Petry Rock 1 Petry Rock 2 Trucker			3 4 5 6 7 8 9 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Kountry Pop Bluegrass Country 8 Beat Country 16 Beat Country 16 Beat Modern Country Country Boogie Country Shuffle 1 Country Shuffle 2 Country Shuffle 2 Country Ballad 2 Country 3/4 Orleans Celtic Waltz Mexican Waltz Norteno 1 Banda 2/4 Norteno 2 Quebradita Tejano Cajun Zydeco

#	CC#0	CC#32	PC	Bank: World 3	CC#0	CC#32	PC	Bank: Latin 1	CC#0	CC#32	PC	Bank: Latin 2
1	0	9	0	Flamenco	0	10	0	Guitar Bossa	0	11	0	Salsa 1
2	-		1	Oriental Dance 2			1	Unplugged Bossa	-	-	1	Salsa 2
3			2	Oriental Ballad	1		2	Cool Bossa		-	2	Mambo 1
4			3	Hora			3	Orchestral Bossa		-	3	Mambo Party
5			4	Sevillana 1	1		4	Meditation Bossa		-	4	English Tango
6			5	Sevillana 2			5	Basic Bossa		-	5	Orchestral Tango
7			6	Jota	1		6	L.A. Bossa			6	Tango.it
8			7	Copla	1		7	Groove Bossa		-	7	Italian Tango
9			8	Classic 3/4	1		8	New Bossa		-	8	Habanera 1
10	1		9	Bolero	1		9	Lite Bossa	ĺ		9	Habanera 2
11			10	Minuetto	1		10	Lite Beguine			10	Mambo 2
12			11	Baroque	1		11	Latin Pop			11	Mambo 3
13	1		12	New Age	1		12	Latin Rock 1			12	Mambo 2000
14			13	Tarantella			13	Latin Rock 2			13	Salsa 3
15			14	Raspa			14	Latin Funk			14	Salsa 4
16			15	Vahde			15	Unplugged Latin			15	Mariachi
17			16	Oriental			16	Cha Cha 1			16	Reggae 1
18			17	Roman			17	Pop Cha Cha			17	Happy Reggae
19			18	Ciftetelli			18	Disco Cha Cha 1			18	Reggae 2
20			19				19	Disco Cha Cha 2			19	Reggae 3
21			20		4		20	Cha Cha 2			20	Pasodoble 1
22			21		-		21	Funky Cha Cha			21	Pasodoble Banda
23	-		22		-		22	Beguine 1		-	22	Pasodoble 2
24	-		23		-		23	Pop Beguine		-	23	Argentina Tango
25	-		24		-		24	Tradit. Bolero		-	24	
26 27			25 26		-		25	Slow Bolero		-	25 26	
27	-		26		-		26 27	Sabor		-	26	
20	-		27		-		27			-	27	
30	-		20		-		28			-	20	
31	-		30		-		30			-	30	
32			31		-		31			-	31	
			51				51				51	
#	CC#0	CC#32	PC	Bank: Latin Dance	CC#0	CC#32	PC	Bank: Jazz 1	CC#0	CC#32	PC	Bank: Jazz 2
#	CC#0	CC#32	PC	Bank: Latin Dance Brazilian Samba	CC#0	CC#32	PC	Bank: Jazz 1 Bigger Band	CC#0	CC#32	PC	Bank: Jazz 2 Fast Big Band 1
							-					
1			0	Brazilian Samba			0	Bigger Band			0	Fast Big Band 1
1			0	Brazilian Samba Andean			0	Bigger Band Big Band 1			0 1	Fast Big Band 1 Dance Band
1 2 3			0 1 2	Brazilian Samba Andean Gipsy Dance			0 1 2	Bigger Band Big Band 1 Soft Jazz			0 1 2	Fast Big Band 1 Dance Band Show Time
1 2 3 4			0 1 2 3	Brazilian Samba Andean Gipsy Dance Latin Dance 1			0 1 2 3	Bigger Band Big Band 1 Soft Jazz BeBop 1			0 1 2 3	Fast Big Band 1 Dance Band Show Time Movie Swing
1 2 3 4 5			0 1 2 3 4	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock			0 1 2 3 4	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush			0 1 2 3 4	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing
1 2 3 4 5 6			0 1 2 3 4 5	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba			0 1 2 3 4 5	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing			0 1 2 3 4 5	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django
1 2 3 4 5 6 7 8 9			0 1 2 3 4 5 6 7 8	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk			0 1 2 3 4 5 6 7 8	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Sving Ballad 1 50's Swing			0 1 2 3 4 5 6 7 8	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway
1 2 3 4 5 6 7 8 9 9 10			0 1 2 3 4 5 6 7 8 9	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1			0 1 2 3 4 5 6 7 8 9	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Slow Swing Swing Ballad 1 S0's Swing Swing Ballad 2			0 1 2 3 4 5 6 7 8 9	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway Dixieland
1 2 3 4 5 6 7 8 9 9 10 11			0 1 2 3 4 5 6 7 7 8 9 9 10	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1			0 1 2 3 4 5 6 7 8 9 9 10	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1			0 1 2 3 4 5 6 7 8 9 9 10	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway Dixieland Big Band 4
1 2 3 4 5 6 7 8 9 9 10 11 11 12			0 1 2 3 4 5 6 7 8 9 9 10 11	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2			0 1 2 3 4 5 6 7 8 9 10 11	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Slow Swing Slow Swing Soving Ballad 1 So's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3			0 1 2 3 4 5 6 7 8 9 9 10 11	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway Dixieland Big Band 4 Swing Shuffle
1 2 3 4 5 6 7 8 9 10 11 11 12 13			0 1 2 3 4 5 6 7 8 9 10 11 11 12	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia			0 1 2 3 4 5 6 7 8 9 9 10 11 11 12	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2			0 1 2 3 4 5 6 7 8 9 9 10 11 11 12	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway Dixieland Big Band 4 Swing Shuffle Fast Big Band 2
1 2 3 4 5 6 7 8 9 10 11 11 12 13 14			0 1 2 3 4 5 6 7 8 9 10 11 12 13	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2			0 1 2 3 4 5 6 7 8 9 10 11 12 13	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 1 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium			0 1 2 3 4 5 6 7 8 9 10 11 11 12 13	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway Dixieland Big Band 4 Swing Shuffle Fast Big Band 2 Latin Big Band
1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15			0 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada			0 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 1 Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's			0 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway Dixieland Big Band 4 Swing Shuffle Fast Big Band 2 Latin Big Band Big Band Fox 4
1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16			0 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 1 Sovis Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway Dixieland Big Band 4 Swing Shuffle Fast Big Band 2 Latin Big Band Big Band Fox 4 Acid Jazz 2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway Dixieland Big Band 4 Swing Shuffle Fast Big Band 2 Latin Big Band Big Band Fox 4 Acid Jazz 2 New Jazz
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy Pop Rhumba			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1 Jazz Waltz 2			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway Dixieland Big Band 4 Swing Shuffle Fast Big Band 2 Latin Big Band Big Band Fox 4 Acid Jazz 2 New Jazz Latin Jazz
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy Pop Rhumba Calypso			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1 Jazz Waltz 2 Jazz Waltz 3			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway Dixieland Big Band 4 Swing Shuffle Fast Big Band 2 Latin Big Band Big Band Fox 4 Acid Jazz 2 New Jazz Latin Jazz Fusion
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy Pop Rhumba Calypso Lambada			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1 Jazz Waltz 2 Jazz Waltz 3 S/4 Swing			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Fast Big Band 1 Dance Band Show Time Movie Swing Xmas Swing Django Hollywood 1 Hollywood 2 Broadway Dixieland Big Band 4 Swing Shuffle Fast Big Band 2 Latin Big Band Big Band Fox 4 Acid Jazz 2 New Jazz Latin Jazz Fusion Ragtime Piano
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy Pop Rhumba Calypso Lambada Meneito			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1 Jazz Waltz 1 Jazz Waltz 2 Jazz Waltz 3 S/4 Swing Vocal Swing			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Fast Big Band 1Dance BandDance BandShow TimeMovie SwingXmas SwingDjangoHollywood 1Hollywood 2BroadwayDixielandBig Band 4Swing ShuffleFast Big Band 2Latin Big Band Fox 4Acid Jazz 2New JazzLatin JazzFusionRagtime PianoShuffle Piano
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy Pop Rhumba Calypso Lambada			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1 Jazz Waltz 1 Jazz Waltz 2 Jazz Waltz 3 S/4 Swing Vocal Swing Big Band 3			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Fast Big Band 1Dance BandShow TimeMovie SwingXmas SwingDjangoHollywood 1Hollywood 2BroadwayDixielandBig Band 4Swing ShuffleFast Big Band 2Latin Big Band Fox 4Acid Jazz 2New JazzLatin JazzFusionRagtime PianoShuffle PianoBoogie Piano
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy Pop Rhumba Calypso Lambada Meneito			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1 Jazz Waltz 1 Jazz Waltz 2 Jazz Waltz 3 5/4 Swing Vocal Swing Big Band 3 Mood Swing			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Fast Big Band 1Dance BandShow TimeMovie SwingXmas SwingDjangoHollywood 1Hollywood 2BroadwayDixielandBig Band 4Swing ShuffleFast Big Band 2Latin Big Band Fox 4Acid Jazz 2New JazzLatin JazzFusionRagtime PianoShuffle PianoBoogie Piano
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy Pop Rhumba Calypso Lambada Meneito			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1 Jazz Waltz 1 Jazz Waltz 2 Jazz Waltz 3 5/4 Swing Vocal Swing Big Band 3 Mood Swing Unplug. Swing 2			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Fast Big Band 1Dance BandShow TimeMovie SwingXmas SwingDjangoHollywood 1Hollywood 2BroadwayDixielandBig Band 4Swing ShuffleFast Big Band 2Latin Big Band Fox 4Acid Jazz 2New JazzLatin JazzFusionRagtime PianoShuffle PianoBoogie Piano
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy Pop Rhumba Calypso Lambada Meneito			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1 Jazz Waltz 1 Jazz Waltz 2 Jazz Waltz 3 5/4 Swing Vocal Swing Big Band 3 Mood Swing Unplug. Swing 2			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Fast Big Band 1Dance BandShow TimeMovie SwingXmas SwingDjangoHollywood 1Hollywood 2BroadwayDixielandBig Band 4Swing ShuffleFast Big Band 2Latin Big Band Fox 4Acid Jazz 2New JazzLatin JazzFusionRagtime PianoShuffle PianoBoogie Piano
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy Pop Rhumba Calypso Lambada Meneito			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1 Jazz Waltz 1 Jazz Waltz 2 Jazz Waltz 3 5/4 Swing Vocal Swing Big Band 3 Mood Swing Unplug. Swing 2			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Fast Big Band 1Dance BandShow TimeMovie SwingXmas SwingDjangoHollywood 1Hollywood 2BroadwayDixielandBig Band 4Swing ShuffleFast Big Band 2Latin Big Band Fox 4Acid Jazz 2New JazzLatin JazzFusionRagtime PianoShuffle PianoBoogie Piano
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy Pop Rhumba Calypso Lambada Meneito			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1 Jazz Waltz 1 Jazz Waltz 2 Jazz Waltz 3 5/4 Swing Vocal Swing Big Band 3 Mood Swing Unplug. Swing 2			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	Fast Big Band 1Dance BandShow TimeMovie SwingXmas SwingDjangoHollywood 1Hollywood 2BroadwayDixielandBig Band 4Swing ShuffleFast Big Band 2Latin Big Band Fox 4Acid Jazz 2New JazzLatin JazzFusionRagtime PianoShuffle PianoBoogie Piano
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Brazilian Samba Andean Gipsy Dance Latin Dance 1 Slow Latin Rock Samba Sambalegre Disco Samba Samba Funk Rhumba 1 Merengue 1 Merengue 2 Cumbia Latin Dance 2 Batucada Rhumba 2 Gipsy Pop Rhumba Calypso Lambada Meneito			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Bigger Band Big Band 1 Soft Jazz BeBop 1 Jazz Brush Medium Swing Slow Swing Swing Ballad 1 50's Swing Swing Ballad 2 Unplug. Swing 1 Swing Ballad 3 BeBop 2 Big Band Medium Big Band 40's Big Band 2 Jazz Waltz 1 Jazz Waltz 1 Jazz Waltz 2 Jazz Waltz 3 5/4 Swing Vocal Swing Big Band 3 Mood Swing Unplug. Swing 2			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Fast Big Band 1Dance BandShow TimeMovie SwingXmas SwingDjangoHollywood 1Hollywood 2BroadwayDixielandBig Band 4Swing ShuffleFast Big Band 2Latin Big Band Fox 4Acid Jazz 2New JazzLatin JazzFusionRagtime PianoShuffle PianoBoogie Piano

#	CC#0	CC#32	PC	Bank: Traditional	CC#0	CC#32	PC	Bank: User 1-3	CC#0	CC#32	PC	Bank: Direct FD 1-3
1	0	15	0	Italian Waltz 1	0	17-19	0		0	20-22	0	
2			1	German Waltz 1	-		1		-		1	
3			2	Walzer Musette	1		2				2	
4			3	Vienna Waltz	1		3				3	
5			4	Viennese	1		4				4	
6			5	Tradit. Polka]		5				5	
7			6	French March			6				6	
8			7	March	-		7				7	
9			8	Italian Waltz 2	-		8		-		8	
10 11			9 10	Italian Waltz 3 Italian Waltz 4	-		9 10				9 10	
12			10	Valzer	+		10				11	
13			12	Italian Waltz 5	-		12				12	
14			13	German Waltz 2	-		13		-		13	
15			14	German Waltz 3	1		14				14	
16			15	Laendler	1		15				15	
17			16	Mazurka 1]		16				16	
18			17	Mazurka 2	1		17				17	
19			18	Mazurka 3	-		18				18	
20			19	Italian Polka	-		19				19	
21 22			20 21	Polka 1 Polka 2	-		20 21				20 21	
22			21	German Polka	-		21				21	
24			23	Mazurka 4	-		23				23	
25			24	Polka 3	1		24				24	
26			25		-		25		-		25	
27			26		1		26				26	
28			27		1		27				27	
29			28]		28]		28	
30			29		1		29				29	
31			30		-		30				30	
32			31				31				31	
	CC#0											
#	CC#0	CC#32	PC	Bank: Direct HD 1-9								
1	0	23-31	0	Bank: Direct HD 1-9	-		0				0	
1 2			0	Bank: Direct HD 1-9	-		1				1	
1 2 3			0 1 2	Bank: Direct HD 1-9	-		1 2				1 2	
1 2 3 4			0 1 2 3	Bank: Direct HD 1-9	-		1 2 3				1 2 3	
1 2 3 4 5			0 1 2 3 4	Bank: Direct HD 1-9			1 2 3 4				1 2 3 4	
1 2 3 4			0 1 2 3	Bank: Direct HD 1-9	-		1 2 3				1 2 3	
1 2 3 4 5 6			0 1 2 3 4 5	Bank: Direct HD 1-9			1 2 3 4 5				1 2 3 4 5	
1 2 3 4 5 6 7			0 1 2 3 4 5 6	Bank: Direct HD 1-9			1 2 3 4 5 6				1 2 3 4 5 6	
1 2 3 4 5 6 7 8 9 9			0 1 2 3 4 5 6 7 8 9	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9				1 2 3 4 5 6 7 8 9	
1 2 3 4 5 6 7 8 9 10 11			0 1 2 3 4 5 6 7 8 9 9	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 9				1 2 3 4 5 6 7 8 9 9 10	
1 2 3 4 5 6 7 8 9 10 11 11 12			0 1 2 3 4 5 6 7 8 9 10 11	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11				1 2 3 4 5 6 7 8 9 10 11	
1 2 3 4 5 6 7 8 9 10 11 11 12 13			0 1 2 3 4 5 6 7 8 9 9 10 11 11 12	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 9 10 11 11 12				1 2 3 4 5 6 7 8 9 9 10 11 11 12	
1 2 3 4 5 6 7 8 9 10 11 12 13 14			0 1 2 3 4 5 6 7 8 9 9 10 11 11 12 13	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 11 12 13				1 2 3 4 5 6 7 8 9 10 11 12 13	
1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 11 12 13 14				1 2 3 4 5 6 7 8 9 10 11 11 12 13 14	
1 2 3 4 5 6 7 8 9 10 11 12 13 14			0 1 2 3 4 5 6 7 8 9 9 10 11 11 12 13	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 11 12 13				1 2 3 4 5 6 7 8 9 10 11 12 13	
1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16			0 1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20				1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21				1 2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18 19 20 21	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26 27				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26 27	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26 27 28				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26 27 28	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30			0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	Bank: Direct HD 1-9			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 22 23 24 25 26 27 28 29				1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 21 22 23 24 22 23 24 25 26 27 28 29	

Style Elements

Note: You can remotely select the various Style Elements on the Pa1X, by sending it Program Change messages on the Control channel (see "MIDI: MIDI In Channels" on page 232).

PC	Style Element	РС	Style Element	РС	Style Element	РС	Style Element	РС	Style Element
80	Variation 1	81	Variation 2	82	Variation 3	83	Variation 4	84	Intro 1
85	Intro 2	86	Fill 1	87	Fill 2	88	Ending 1	89	Ending 2
90	Fill 3/Break	91	Fade In/Out	92	Memory	93	Bass Inversion	94	Manual Bass
95	Tempo Lock	96	Single Touch	97	Style Change	98	Intro 3/Count In		

Single Touch Settings (STS)

Note: You can remotely select Single Touch Settings (STS) on the Pa1X, by sending it Bank Select MSB (CC#0), Bank Select LSB (CC#32) and Program Change messages on the Control channel (see "MIDI: MIDI In Channels" on page 232). If a Style is already selected, just send the Program Change message.

CC#0	CC#32	PC	STS	РС	STS	РС	STS	РС	STS
The same as the Style to	64	STS 1	65	STS 2	66	STS 3	67	STS 4	

Sounds

The following table lists all Pa1X Factory Sounds in order of Bank Select-Program Change number.

Legend: The table also includes MIDI data used to remotely select the Sounds. CC00: Control Change 0, or Bank Select MSB. CC32: Control Change 32, or Bank Select LSB. PC: Program Change. Bank: Sound/Performance Select button.

CC00	CC32	PC	Name	Bank	GM2
121	0	0	Acoustic Piano	Piano	V
121	1	0	Ac. Piano Wide	Piano	1
121	2	0	Ac. Piano Dark	Piano	√
121	3	0	Grand Piano	Piano	
121	4	0	Classic Piano	Piano	
121	5	0	L/R Piano	Piano	
121	6	0	Piano & Vibes	Piano	
121	7	0	Piano & Strings	Piano	
121	0	1	Bright Piano	Piano	√
121	1	1	Bright PianoWide	Piano	√
121	2	1	Piano Pad 1	Piano	
121	3	1	Piano Pad 2	Piano	
121	4	1	Piano StringPad	Piano	
121	0	2	E. Gran Piano	Piano	~
121	1	2	E. Grand Wide	Piano	
121	2	2	M1 Piano	Piano	,
121	3	2	90's Piano	Piano	
121	4	2	2000's Piano	Piano	
121	5	2	Chorus Piano	Piano	
	-				
121	6	2	Piano Layers	Piano	
121	0	3	Honky-Tonk	Piano	√
121	1	3	Honky Wide	Piano	√
121	0	4	Electric Piano 1	E. Piano	V
121	1	4	Detuned EP 1	E. Piano	V
121	2	4	EP1 Veloc.sw	E. Piano	V
121	3	4	60's E. Piano	E. Piano	\checkmark
121	4	4	Vintage EP	E. Piano	
121	5	4	Pro Dyno EP	E. Piano	
121	6	4	Pro Stage EP	E. Piano	
121	7	4	Studio EP	E. Piano	
121	8	4	R&B E. Piano	E. Piano	
121	9	4	Thin E. Piano	E. Piano	
121	10	4	Dyno Tine EP	E. Piano	
121	11	4	Club E. Piano	E. Piano	
121	12	4	Classic Wurly	E. Piano	
121	13	4	Soft Wurly	E. Piano	
121	14	4	Hard Wurly	E. Piano	
121	15	4	Vel. Wurly	E. Piano	
121	16	4	Tremolo Wurly	E. Piano	
121	0	5	Electric Piano 2	E. Piano	~
121	1	5	Detuned EP 2	E. Piano	
121	2	5	EP2 Veloc.sw	E. Piano	
121	3	5	EP Legend	E. Piano	√
121	4	5	EP Phase	E. Piano	√
121	5	5	Syn Piano X	E. Piano	v
		5	-		
121	6		Stereo Dig. EP	E. Piano	
121	7	5	Classic Dig. EP	E. Piano	
121	8	5	Hybrid EP	E. Piano	
121	9	5	Classic Tines	E. Piano	
121	10	5	Phantom Tine	E. Piano	
121	11	5	DW8000 EP	E. Piano	

121 121 121 121 121 121 121	12 13	5	Sweeping EP	E. Piano	
121 121 121	13		Jweeping Li		
121 121		5	White Pad EP	E. Piano	
121	0	6	Harpsichord	Piano	1
	1	6	Harpsi Octave	Piano	1
121	2	6	Harpsi Wide	Piano	1
	3	6	Harpsi Key Off	Piano	1
121	4	6	Harpsi Korg	Piano	
121	0	7	Clav	Piano	1
121	1	7	Pulse Clav	Piano	ا
121	2	7	Clav Wah	Piano	
121	3	7	Clav Snap	Piano	
121	4	7	Sticky Clav	Piano	
121	0	8	Celesta	Mallet & Bell	
121	0	9	Glocken	Mallet & Bell	Ň
121	1	9	Sistro	Mallet & Bell	
121	0	10	Music Box	Mallet & Bell	√
121	1	10	Orgel	Mallet & Bell	
121	0	11	Vibraphone 1	Mallet & Bell	√
121	1	11	Vibrap. Wide	Mallet & Bell	V
121	2	11	Vibraphone 2	Mallet & Bell	
121	0	12	Marimba	Mallet & Bell	V
121	1	12	Marimba Wide	Mallet & Bell	\checkmark
121	2	12	Marimba Key Off	Mallet & Bell	
121	3	12	Monkey Skuls	Mallet & Bell	
121	4	12	Log Drum	Drum & Perc.	
121	5	12	Mallet Clock	Mallet & Bell	
121	6	12	Balaphon	Mallet & Bell	
121	0	13	Xylophone	Mallet & Bell	√
121	0	14	Tubular Bell	Mallet & Bell	√
121	1	14	Church Bell 1	Mallet & Bell	√
121	2	14	Carillon	Mallet & Bell	- V
121	3	14	Church Bell 2	Mallet & Bell	
121	0	15	Dulcimer	Mallet & Bell	
121	1	15	Santur	Mallet & Bell	· ·
121	0	16	Drawbars Organ1	Organ	
121	1	16	-		√
121	2	16	Det.DrawbarsOrg.	Organ	√
			It. 60's Organ	Organ	√
121	3	16	Drawbars Organ2	Organ	N N
121	4	16	Dark Jazz Organ	Organ	
121	5	16	Iper Dark Organ	Organ	
121	6	16	Full Drawbars	Organ	_
121	7	16	DWGS Organ	Organ	_
121	8	16	Jazz Organ	Organ	_
121	9	16	Gospel Organ	Organ	
121	10	16	Good Old B	Organ	
121	11	16	VOX Legend	Organ	
121	12	16	Arabian Organ	Organ	
121	13	16	Gospel Organ Vel	Organ	
121	0	17	Perc. Organ 1	Organ	V
121	1	17	Det.Perc.Organ	Organ	1
121	2	17	Perc. Organ 2	Organ	1
121	3	17	Old Wheels	Organ	
121	4	17	Percuss. BX3	Organ	
121	5	17	M1 Organ	Organ	
121	6	17	Techno Org.Bass	Organ	
121	7	17	BX3 Short Decay	Organ	
121	8	17	Rotary Organ	-	
				Organ	_
121	9	17	Perc.StereoOrgan	Organ	1
121	0	18	Rock Organ	Organ	√
121	1	18	BX3 Vel. Sw	Organ	
121	2	18	Killer B	Organ	

CC00	CC32	PC	Name	Bank	GM2
121	4	18	Classic Click	Organ	
121	5	18	Distortion Organ	Organ	
121	6	18	Super BX Perc.	Organ	
121	7	18	Dirty Jazz Organ	Organ	
121	8	18	Perc.Short Decay	Organ	
121	9	18	Perc. Wheels	Organ	
121	10	18	Jimmy Organ	Organ	
121	0	19	Church Organ	Organ	√
121	1	19	Church Oct. Mix	Organ	√
121	2	19	Detuned Church	Organ	√
121	3	19	Pipe Mixture	Organ	
121	4	19	Church Pipes	Organ	
121	5	19	Full Pipes	Organ	
121	6	19	Pipe Tutti 1	Organ	
121	7	19	Positive Organ	Organ	
121	8	19	Pipe Tutti 2	Organ	
121	9	19	Pipe Tutti 3	Organ	
121	0	20	Reed Organ	Organ	√
121	1	20	Puff Organ	Organ	√
121	2	20	Small Pipe	Organ	· ·
121	2	20	Flauto Pipes	Organ	_
121	4	20	Pipe Flute	Organ	I
121	0	21	Accordion 1	Accordion	√ √
121	1	21	Accordion 2	Accordion	N
121	2	21	Akordeon	Accordion	
121	3	21	Musette 1	Accordion	
121	4	21	Musette 2	Accordion	
121	5	21	Musette Clar.	Accordion	
121	6	21	Fisa 16, 8'	Accordion	
121	7	21	Fisa 16, 4'	Accordion	
121	8	21	Fisa Master	Accordion	
121	9	21	Cassotto	Accordion	
121	10	21	Arabic Accordion	Accordion	
121	11	21	Sweet Musette	Accordion	
121	12	21	Cassotto 16'	Accordion	
121	13	21	Cassotto Or.Tune	Accordion	
121	14	21	Cassotto NorTune	Accordion	
121	15	21	Detune Accordion	Accordion	
121	16	21	2 Voices Musette	Accordion	
121	17	21	3 Voices Musette	Accordion	
121	18	21	France Musette	Accordion	
121	19	21	Acc.Clarinet OT	Accordion	
121	20	21	Acc. Clarinet NT	Accordion	
121	21	21	Acc. Piccolo OT	Accordion	
121	22	21	Acc. Piccolo NT	Accordion	
121	23	21	Master Accordion	Accordion	
121	0	22	Harmonica 1	Accordion	
121	1	22	Sweet Harmonica	Accordion	
121	2	22	Harmonica 2	Accordion	
121	3	22	Harmonica AT	Accordion	
121	0	23	Tango Accordion	Accordion	√
121	1	23	Fisa Tango!	Accordion	
121	2	23	Accordion 16 8'	Accordion	
121	3	23	Accordion16 8 4'	Accordion	
121	4	23	Acc.16 8' & Bass	Accordion	
121	5	23	Accordion Bass	Accordion	
121	6	23	Acc.Voice Change	Accordion	
121	7	23	Accordion 16 4'	Accordion	
121	8	23	Acc.16 8 4' Plus	Accordion	
121	9	23	Acc. & Acc. Bass	Accordion	
	0	23	Nylon Guitar 1	Guitar	√
121			Lityion Guitar I	Guildi	

CC00	CC32	PC	Name	Bank	GM2
121	2	24	Nylon Key Off	Guitar	V
121	3	24	Nylon Guitar 3	Guitar	V
121	4	24	Nylon Bossa	Guitar	
121	5	24	Ac.Guitar KeyOff	Guitar	
121	6	24	Spanish Guitar	Guitar	
121	7	24	Guitar Strings	Guitar	
121	8	24	Nylon Gtr Pro1	Guitar	
121	9	24	Brazilian Guitar	Guitar	
121	10	24	Nylon Vel. Harm.	Guitar	
121	11	24	Nylon Gtr Pro2	Guitar	
121	12	24	Nylon Gtr RX1	Guitar	
121	12	24	Nylon Gtr RX2	Guitar	
			-		
121	14	24	Nylon Slide Pro	Guitar	
121	15	24	Nylon Guitar 2	Guitar	
121	0	25	Steel Guitar 1	Guitar	<u>الا</u>
121	1	25	12 Strings Gtr	Guitar	V
121	2	25	Mandolin	Guitar	V
121	3	25	Steel & Body	Guitar	V
121	4	25	Steel Guitar 2	Guitar	
121	5	25	Steel 12 Strings	Guitar	
121	6	25	Hackbrett	Guitar	
121	7	25	Finger Key Off	Guitar	
121	8	25	Finger Tips	Guitar	
121	9	25	Steel Folk Gtr	Guitar	
121	10	25	Mandolin Key Off	Guitar	
121	11	25	Mandolin Trem.	Guitar	
121	12	25	Reso. Guitar	Guitar	
121	13	25	Steel Slide Pro1	Guitar	
121	14	25	Steel Slide Pro2	Guitar	
121	15	25	Steel Guitar RX1	Guitar	
121	16	25	Steel Guitar RX2	Guitar	
121	17	25	12 Strings Pro	Guitar	
121	18	25	12 Strings RX	Guitar	
121	10	25	Steel Guitar Pro	Guitar	
121	20	25	Steel Guitar 3	Guitar	1
121	0	26	Jazz Guitar	Guitar	<u>۸</u>
121	1	26	Pedal Steel Gtr1	Guitar	√
121	2	26	Club Jazz Gtr 1	Guitar	
121	3	26	Club Jazz Gtr 2	Guitar	
121	4	26	Pedal Steel Gtr2	Guitar	
121	5	26	Soft Jazz Guitar	Guitar	
121	6	26	JazzGtr SlidePro	Guitar	
121	0	27	Clean Guitar 2	Guitar	V
121	1	27	Det. Clean Gtr	Guitar	V
121	2	27	Mid Tone Gtr	Guitar	√
121	3	27	Chorus Guitar	Guitar	
121	4	27	Vintage S.2	Guitar	
121	5	27	Proces.E.Guitar	Guitar	
121	6	27	Single Coil	Guitar	
121	7	27	New Stra.Guitar	Guitar	
121	8	27	Guitarish	Guitar	
121	9	27	L&R E.Guitar 1	Guitar	
121	10	27	L&R E.Guitar 2	Guitar	
121	10	27	Country Nu	Guitar	
			Funky Wah Sw.		
121	12	27	-	Guitar	
121	13	27	Clean Gtr Pro1	Guitar	
121	14	27	Single Coil Pro	Guitar	
121	15	27	Clean Gtr Pro2	Guitar	
121	16	27	Stra. Vel. Pro	Guitar	
121	17	27	Stra. Gtr Slide	Guitar	
121	18	27	Chorus Gtr Pro	Guitar	
121	19	27	Vintage S.1	Guitar	

CC00	CC32	PC	Name	Bank	GM2
121	20	27	Clean Guitar 1	Guitar	
121	21	27	Solid Guitar	Guitar	
121	22	27	Stein Guitar 1	Guitar	
121	23	27	Stein Guitar 2	Guitar	
121	24	27	Stein Guitar 3	Guitar	
121	0	28	Muted Guitar	Guitar	\checkmark
121	1	28	Funky Cut Gtr	Guitar	\checkmark
121	2	28	Mute Vel. Gtr	Guitar	1
121	3	28	Jazz Man	Guitar	√
121	4	28	R&R Guitar	Guitar	
121	5	28	Stra. Chime	Guitar	
121	6	28	Clean Mute Gtr	Guitar	
121	7	28	Rhythm E.Guitar	Guitar	
121	8	28	Clean Funk	Guitar	
121	9	28	Disto Mute	Guitar	
121	10	28	Clean Funk RX1	Guitar	
121	11	28	Clean Funk RX2	Guitar	
121	12	28	Funk Stein RX1	Guitar	
121	13	28	Funk Stein RX2	Guitar	
121	14	28	Clean Guitar RX1	Guitar	
121	15	28	Clean Guitar RX2	Guitar	
121	16	28	Clean Guitar RX3	Guitar	
121	17	28	Clean Guitar RX4	Guitar	
121	17	28	Clean Guitar RX5	Guitar	
121	0	29	Overdrive Guitar	Guitar	√
121	1	29	Guitar Pinch	Guitar	√
121	0	30	Distortion Gtr	Guitar	√
121	1	30	Feedback Guitar	Guitar	√
121		30			
	2		Dist.Rhytmic Gtr	Guitar	V
121	3	30	Joystick Gtr Y-	Guitar	
121	4	30	Power Chords	Guitar	
121	5	30	Mute Monster	Guitar	
121	6	30	Wet Dist. Guitar	Guitar	
121	7	30	Solo Dist. Guitar	Guitar	
121	8	30	Stereo Dist. Gtr	Guitar	
121	9	30	Dist. Guitar RX1	Guitar	
121	10	30	Dist. Guitar RX2	Guitar	
121	0	31	Guitar Harmonic	Guitar	√
121	1	31	Guitar Feedback	Guitar	√
121	2	31	E.Gtr Harmonics	Guitar	
121	0	32	Acoustic Bass	Bass	√
121	1	32	Ac. Bass Buzz	Bass	
121	2	32	Bass & Ride 2	Bass	
121	3	32	Acous. Bass Pro1	Bass	
121	4	32	Acous. Bass Pro2	Bass	
121	5	32	DarkWoody A.Bass	Bass	
121	6	32	Bass & Ride 1	Bass	
121	7	32	Acous. Bass RX	Bass	
121	0	33	Finger Bass 3	Bass	\checkmark
121	1	33	Finger Slap 2	Bass	\checkmark
121	2	33	Finger E.Bass1	Bass	
121	3	33	Finger E.Bass2	Bass	
121	4	33	Finger E.Bass3	Bass	
121	5	33	Stick Bass	Bass	
121	6	33	Finger Bass 1	Bass	
121	7	33	Finger Bass 2	Bass	
121	8	33	Chorus Fing.Bass	Bass	
121	9	33	Bright Finger B.	Bass	
121	10	33	Finger Bass Vel.	Bass	
121	11	33	More mid! Bass	Bass	
121	12	33	Finger Slap 1	Bass	
121	13	33	Finger Bass RX	Bass	

CC00	CC32	PC	Name	Bank	GM2
121	14	33	FingerB.& Guitar	Bass	
121	0	34	Picked E.Bass 3	Bass	1
121	1	34	Picked E.Bass 1	Bass	
121	2	34	Picked E.Bass 2	Bass	
121	3	34	Stein Bass	Bass	
121	4	34	Guitar Bass	Bass	
121	5	34	Bass Mute	Bass	
121	6	34	Bass&Gtr Double	Bass	
121	7	34	Pick Bass Vel.1	Bass	
121	8	34	Pick Bass Vel.2	Bass	
121	9	34	Ticktacing Bass	Bass	
121	10	34	Picked Bass RX	Bass	
121	0	35	Fretless Bass 1	Bass	v
121	1	35	Fretless Bass2	Bass	
121	2	35	Fretless Sw.	Bass	
121	3	35	Sweet Fretless	Bass	
121	4	35	Dark R&B Bass1	Bass	
121	5	35	Dark R&B Bass2	Bass	
121	6	35	Woofer Pusher B.	Bass	
121	0	36	Slap Bass 2	Bass	√
121	1	36	Super Sw.Bass1	Bass	
121	2	36	Super Sw.Bass2	Bass	
121	3	36	FunkSlap Bass RX	Bass	
121	4	36	SlapFing Bass RX	Bass	
121	5	36	SlapPick Bass RX	Bass	
121	0	37	Slap Bass 3	Bass	√
121	1	37	Thumb Bass	Bass	
121	2	37	Dyna Bass	Bass	
121	3	37	Slap Bass Vel.	Bass	
121	4	37	Chorus Slap Bass	Bass	
121	5	37		Bass	
		-	The Other Slap		
121	6	37	Slap Bass 1	Bass	1
121	0	38	Synth Bass 1	Bass	<u>الم</u>
121	1	38	Syn Bass Warm	Bass	√
121	2	38	Syn Bass Reso	Bass	√
121	3	38	Clav Bass	Bass	V
121	4	38	Hammer	Bass	V
121	5	38	30303 Bass	Bass	
121	6	38	30303 Square	Bass	
121	7	38	Bass Square	Bass	
121	8	38	Syn Bass Res	Bass	
121	9	38	Digi Bass 1	Bass	
121	10	38	Digi Bass 2	Bass	
121	11	38	Digi Bass 3	Bass	
121	12	38	Blind as a Bat	Bass	
121	13	38	Jungle Bass	Bass	
121	14	38	Auto Pilot 1	Synth 2	
121	15	38	Hybrid Bass	Bass	
121	16	38	Dr. Octave	Bass	
121	17	38	Drive Bass	Bass	
					2
121	0	39	Synth Bass 2	Bass	N
121	1	39	Attack Bass	Bass	<u>م</u>
121	2	39	Rubber Bass	Bass	<u>√</u>
121	3	39	Attack Pulse	Bass	√
121	4	39	Euro Bass	Bass	
121	5	39	Jungle Rez	Bass	
121	6	39	Nasty Bass	Bass	
121	7	39	Phat Bass	Bass	
121	8	39	Poinker Bass	Bass	
121	9	39	Synth Bass 80ish	Bass	
121	10	39	Autofilter Bass	Bass	

CC00	CC32	PC	Name	Bank	GM2
121	12	39	Reso Bass	Bass	
121	13	39	Auto Pilot 2	Bass	
121	14	39	Bass4 Da Phunk	Bass	
121	0	40	Violin	Strings & Vocal	√
121	1	40	Slow Att.Violin	Strings & Vocal	√
121	2	40	Solo Violin	Strings & Vocal	
121	3	40	Slow Violin	Strings & Vocal	
121	0	41	Viola	Strings & Vocal	\checkmark
121	0	42	Cello	Strings & Vocal	\checkmark
121	0	43	Contrabass	Strings & Vocal	\checkmark
121	0	44	Tremolo Strings	Strings & Vocal	\checkmark
121	0	45	Pizzicato Str.	Strings & Vocal	\checkmark
121	1	45	Pizz. Ensemble	Strings & Vocal	
121	2	45	Pizz. Section	Strings & Vocal	
121	3	45	Double Strings	Strings & Vocal	
121	0	46	Orchestral Harp	Strings & Vocal	\checkmark
121	1	46	Yang Chin	Strings & Vocal	√
121	0	47	Timpani	Drum & Perc.	\checkmark
121	0	48	Strings Ens. 1	Strings & Vocal	V
121	1	48	Strings & Brass	Strings & Vocal	
121	2	48	60's Strings	Strings & Vocal	\checkmark
121	3	48	Stereo Strings	Strings & Vocal	
121	4	48	Legato Strings	Strings & Vocal	
121	5	48	i3 Strings	Strings & Vocal	
121	6	48	N Strings	Strings & Vocal	
121	7	48	Arco Strings	Strings & Vocal	
121	8	48	Octave Strings	Strings & Vocal	
121	9	48	Strings Quartet	Strings & Vocal	
121	10	48	Symphonic Bows	Strings & Vocal	
121	11	48	Ensemble & Solo	Strings & Vocal	
121	12	48	Camera Strings	Strings & Vocal	
121	13	48	Arabic Strings	Strings & Vocal	
121	14	48	Orchestra Tutti1	Strings & Vocal	
121	15	48	Strings & Horns	Strings & Vocal	
121	16	48	Orch. & Oboe 1	Strings & Vocal	
121	17	48	Orch. & Oboe 2	Strings & Vocal	
121	18	48	Strings & Glock.	Strings & Vocal	
121	19	48	Orchestra Tutti2	Strings & Vocal	
121	20	48	Orchestra&Flute	Strings & Vocal	
121	0	49	Strings Ens. 2	Strings & Vocal	\checkmark
121	1	49	Sweeper Strings	Strings & Vocal	
121	2	49	Full Strings	Strings & Vocal	
121	0	50	Synth Strings 1	Strings & Vocal	\checkmark
121	1	50	Synth Strings 3	Strings & Vocal	\checkmark
121	2	50	Analog Strings 2	Strings & Vocal	
121	3	50	Analog Velve	Strings & Vocal	
121	4	50	Odissey	Strings & Vocal	
121	5	50	Analog Strings 1	Strings & Vocal	
121	0	51	Synth Strings 2	Strings & Vocal	√
121	0	52	Choir Aahs 1	Strings & Vocal	√
121	1	52	Choir Aahs 2	Strings & Vocal	\checkmark
121	2	52	Oooh Voices	Strings & Vocal	
121	3	52	Oooh Slow Voice	Strings & Vocal	
121	4	52	Take Voices 1	Strings & Vocal	
121	5	52	Take Voices 2	Strings & Vocal	
121	6	52	Oooh Choir	Strings & Vocal	
121	7	52	Aaah Choir	Strings & Vocal	
121	8	52	Mmmh Choir	Strings & Vocal	
121	9	52	Oh-Ah Voices	Strings & Vocal	
121	10	52	Slow Choir	Strings & Vocal	
121	11	52	Grand Choir	Strings & Vocal	
121	12	52	Choir Light	Strings & Vocal	

CC00	CC32	PC	Name	Bank	GM2
121	13	52	Strings Choir	Strings & Vocal	
121	0	53	Voice Ooohs	Strings & Vocal	1
121	1	53	Humming	Strings & Vocal	\checkmark
121	2	53	Doolally	Strings & Vocal	
121	3	53	Airways	Strings & Vocal	
121	0	54	Synth Voice	Strings & Vocal	1
121	1	54	Analog Voice	Strings & Vocal	1
121	2	54	Vocalesque	Strings & Vocal	,
121	3	54	Vocalscape	Strings & Vocal	
	4		Classic Vox		
121		54	-	Strings & Vocal	
121	5	54	Dream Voice	Strings & Vocal	
121	0	55	Orchestra Hit	Brass	1
121	1	55	Bass Hit Plus	Brass	V
121	2	55	6th Hit	Brass	V
121	3	55	Euro Hit	Brass	\checkmark
121	4	55	Brass Impact	Brass	
121	5	55	Hit in India	SFX	
121	6	55	Wild Arp	Synth 2	
121	7	55	Flip Blip	Synth 2	
121	8	55	Netherland Hit	Brass	
121	0	56	Trumpet 1	Trumpet & Trbn.	V
121	1	56	Dark Trumpet	Trumpet & Trbn.	1
121	2	56	Trumpet 2	Trumpet & Trbn.	
121	3	56	Mono Trumpet	Trumpet & Trbn.	
121	4	56	Trumpet Expr	Trumpet & Trbn.	
121	5	56	Trumpet Pitch	Trumpet & Trbn.	
121	6	56	Dual Trumpets	Trumpet & Trbn.	
121	7	56	Flugel Horn	Trumpet & Trbn.	
	8	56			
121	-		Warm Flugel	Trumpet & Trbn.	
121	9	56	BeBop Cornet	Trumpet & Trbn.	
121	10	56	Trumpet Pro 1	Trumpet & Trbn.	
121	11	56	Trumpet Pro 2	Trumpet & Trbn.	
121	12	56	Sweet FlugelHorn	Trumpet & Trbn.	
121	13	56	Flugel Horn Pro	Trumpet & Trbn.	
121	0	57	Trombone 1	Trumpet & Trbn.	V
121	1	57	Trombone 2	Trumpet & Trbn.	V
121	2	57	Bright Trombone	Trumpet & Trbn.	
121	3	57	Hard Trombone	Trumpet & Trbn.	
121	4	57	Soft Trombone	Trumpet & Trbn.	
121	5	57	Pitch Trombone	Trumpet & Trbn.	
121	6	57	Trombone Expr. 1	Trumpet & Trbn.	
121	7	57	Trombone Expr. 2	Trumpet & Trbn.	
121	8	57	Trombone Vel. 1	Trumpet & Trbn.	
121	9	57	Trombone Vel. 2	Trumpet & Trbn.	
121	10	57	Trombone Vel. 3	Trumpet & Trbn.	
121	11	57	Trombone Pro Vel	Trumpet & Trbn.	
121	0	58	Tuba	Trumpet & Trbn.	1
121	1	58	Oberkr. Tuba	Trumpet & Trbn.	
121	2	58	Tuba Gold	Trumpet & Trbn.	+
121	3	58	Dynabone	Trumpet & Trbn.	
121	0	59	Mute Trumpet 1	Trumpet & Trbn.	
121	1	59	Mute Trumpet 2	Trumpet & Trbn.	- V
	2	59	Wah Trumpet	-	v
121				Trumpet & Trbn.	
121	3	59	Mute Ensemble 1	Brass	
121	4	59	Mute Ensemble 2	Brass	1
121	0	60	French Horn 1	Brass	V
121	1	60	French Horn 2	Brass	V
121	2	60	French Section	Brass	
121	3	60	Classic Horns	Brass	
121	4	60	Horns & Ensemble	Brass	
121	0	61	Brass Section 1	Brass	V
121	1	61	Brass Section 2	Brass	√

CC00	CC32	PC	Name	Bank	GM2
121	2	61	Tight Brass 3	Brass	
121	3	61	Glen & Friends	Brass	
121	4	61	Big Band Brass	Brass	
121	5	61	Sax & Brass	Brass	
121	6	61	Glen & Boys	Brass	
121	7	61	Trumpet & Brass	Brass	
121	8	61	Attack Brass	Brass	
121	9	61	Trumpet Ens.	Brass	
121	10	61	Trombone Ens.	Brass	
121	11	61	Trombones	Brass	
121	12	61	Tight Brass 4	Brass	
121	13	61	Fat Brass	Brass	
121	14	61	Dyna Brass 1	Brass	
121	15	61	Brass Expr.	Brass	
121	16	61	Brass Band	Brass	
121	17	61	Film Brass	Brass	
121	18	61	Brass Slow	Brass	
121	19	61	Fanfare	Brass	
121	20	61	Movie Brass	Brass	
121	21	61	Power Brass	Brass	
121	22	61	Dyna Brass 2	Brass	
121	23	61	Sforzato Brass	Brass	
121	24	61	Double Brass	Brass	
121	25	61	Brass Hit	Brass	
121	26	61	Brass Fall	Brass	
121	27	61	Tight Brass 1	Brass	
121	28	61	Tight Brass Pro	Brass	
121	29	61	Tight Brass 2	Brass	
121	30	61	Brass of Power	Brass	
121	0	62	Synth Brass 1	Brass	1
121	1	62	Synth Brass 3	Brass	√
121	2	62	Analog Brass 1	Brass	1
121	3	62	Jump Brass	Brass	V
121	4	62	Electrik Brass	Brass	
121	5	62	Synth Brass 5	Brass	
121	0	63	Synth Brass 2	Brass	√
121	1	63	Synth Brass 4	Brass	√
121	2	63	Analog Brass 2	Brass	√
121	3	63	Brass Pad	Brass	
121	4	63	Big Panner	Synth 1	
121	0	64	Soprano Sax	Sax	√
121	1	64	Sweet Soprano 3	Sax	
121	2	64	Soprano Pro	Sax	
121	3	64	Sweet Soprano 1	Sax	
121	4	64	Sweet Soprano 2	Sax	
121	0	65	Alto Sax	Sax	√
121	1	65	Alto Breath	Sax	
121	2	65	Sax Ensemble	Sax	
121	3	65	Breathy Alto Sax	Sax	
121	4	65	Alto Sax Growl	Sax	
121	5	65	Sweet Alto Sax 1	Sax	
121	6	65	Sweet Alto Sax 2	Sax	
121	7	65	Soft Alto Sax	Sax	
121	8	65	Alto Sax Pro	Sax	
121	0	66	Tenor Sax	Sax	
121	1	66	Tenor Sax Noise1	Sax	
121	2	66	Soft Tenor	Sax	
121	2		Tenor Breath	Sax	
		66 66			
121	4	66 66	Tenor Growl	Sax	
121	5	66	Folk Sax	Sax	
121	6	66	Tenor Sax Noise2	Sax	

CC00	CC32	PC	Name	Bank	GM
121	8	66	Tenor Sax Expr.2	Sax	
121	9	66	Jazz Tenor Vel.1	Sax	
121	10	66	Jazz Tenor Vel.2	Sax	
121	11	66	Reed of Power	Sax	
121	0	67	Baritone Sax	Sax	√
121	1	67	Baritone Growl	Sax	
121	2	67	Breathy Baritone	Sax	
121	3	67	Baritone Sax Pro	Sax	
121	0	68	Oboe	Woodwind	√
121	1	68	Double Reed	Woodwind	
121	0	69	English Horn 1	Woodwind	√
121	1	69	English Horn 2	Woodwind	
121	0	70	Bassoon	Woodwind	1
121	0	71	Clarinet	Woodwind	
121	1	71	Jazz Clarinet	Woodwind	
121	2	71	Clarinet G	Woodwind	
121	3	71	Section Winds 1	Woodwind	_
121	4	71	Section Winds 2	Woodwind	_
121	4 5	71	Clarinet Ens.	Woodwind	
	-				
121	6	71	Woodwinds	Woodwind	
121	7	71	Folk Clarinet	Woodwind	
121	0	72	Piccolo	Woodwind	√
121	1	72	Small Orchestra	Woodwind	
121	2	72	Nay	Woodwind	
121	0	73	Flute 1	Woodwind	1
121	1	73	Jazz Flute	Woodwind	
121	2	73	Flute Switch	Woodwind	
121	3	73	Flute Dyn. 5th	Woodwind	
121	4	73	Flute Frullato	Woodwind	
121	5	73	Orchestra Flute	Woodwind	
121	6	73	Flute Muted	Brass	
121	7	73	Wooden Flute	Woodwind	
121	8	73	Bambu Flute	Woodwind	
121	9	73	Flute 2	Woodwind	
121	0	74	Recorder 1	Woodwind	1
121	1	74	Recorder 2	Woodwind	
121	0	75	Pan Flute	Woodwind	1
121	1	75	Kawala	Woodwind	
121	0	76	Blown Bottle	Woodwind	1
121	0	77	Shakuhachi 1	Woodwind	1
121	1	77	Old Shakuhachi	Woodwind	
121	2	77	Shakuhachi 2	Woodwind	
121	0	78	Whistle 1	Woodwind	~
121	1	78	Whistle 2	Woodwind	<u> </u>
121	0	79	Ocarina	Woodwind	
121	0	80	Lead Square 1	Synth 2	
121	1	80	Lead Square 2	Synth 2	√
121	2	80	Lead Sine	Synth 2	
121	3	80	Old Portamento	Synth 2	
121	4	80	Dance Lead	Synth 2	
				-	_
121	5	80 80	Wave Lead	Synth 2	
121	6	80	Sine Wave	Synth 2	
121	7	80	Analog Lead	Synth 2	
121	8	80	Old & Analog	Synth 2	
121	9	80	Gliding Square	Synth 2	
121	10	80	Sine Switch	Synth 2	
121	11	80	Square Rez	Synth 2	
121	12	80	Port Whine	Synth 2	
121	13	80	2VCO Planet Lead	Synth 2	
121	0	81	Lead Saw 1	Synth 2	\checkmark
121	1	81	Lead Saw 2	Synth 2	1
				+	

CC00	CC32	PC	Name	Bank	GM2
121	3	81	Lead Double Saw	Synth 2	1
121	4	81	Seq. Analog	Synth 2	1
121	5	81	Power Saw	Synth 2	
121	6	81	Octo Lead	Synth 2	
121	7	81	Seq Lead	Synth 2	
121	8	81	Phat Saw Lead	Synth 2	
121	9	81	Glide Lead	Synth 2	
121	10	81	Fire Wave	Synth 2	
121	11	81	Rezbo	Synth 2	
121	12	81	Synth Pianoid	Synth 2	
121	0	82	Calliope	Synth 2	√
121	0	83	Chiff	Synth 2	1
121	0	84	Charang	Synth 2	√
121	1	84	Wire Lead	Synth 2	1
121	2	84	Synchro City	Synth 2	
121	3	84	Sync Kron	Synth 2	
121	4	84	Metallic Rez	Synth 2	
121	5	84	Brian Sync	Synth 2	
121	6	84	Arp Twins	Synth 2	-
121	7	84	LoFi Ethnic	Synth 2	
121	0	84	Voice Lead	Strings & Vocal	
121	1	85	Ether Voices		v
121	2			Strings & Vocal	
		85	Cyber Choir	Strings & Vocal	
121	0	86	Fifths Lead	Synth 2	√
121	1	86	Crimson 5ths	Synth 1	
121	0	87	Bass & Lead	Synth 2	1
121	1	87	Soft Wrl	Synth 2	V
121	2	87	Electro Lead	Synth 2	
121	3	87	Rich Lead	Synth 2	
121	4	87	Thin Analog Lead	Synth 2	
121	5	87	Express. Lead	Synth 2	
121	6	87	HipHop Lead	Synth 2	
121	7	87	Square Bass	Synth 2	
121	8	87	Big & Raw	Synth 2	
121	9	87	Cat Lead	Synth 2	
121	10	87	OB Lead	Synth 2	
121	11	87	A Leadload	Synth 2	
121	0	88	New Age Pad	Synth 2	\checkmark
121	1	88	Virtual Traveler	Synth 1	
121	2	88	Arp Angeles	Synth 2	
121	0	89	Warm Pad	Synth 1	1
121	1	89	Sine Pad	Synth 1	1
121	2	89	Master Pad	Strings & Vocal	
121	3	89	Power Synth	Synth 2	
121	4	89	The Pad	Synth 1	
121	5	89	Money Pad	Synth 1	
121	6	89	Dark Pad	Synth 1	1
121	7	89	Freedom Pad	Synth 1	
121	8	89	Analog Pad 1	Synth 1	
121	9	89	Analog Pad 2	Synth 1	-
121	10	89	Analog Pad 3	Synth 1	-
121	10	89	Vintage Pad	Synth 1	-
121	12	89	OB Pad	Synth 1	+
121	12	89	Dark Anna	Synth 1	
121	15	89	Symphonic Ens.	Synth 1	
				-	√
121	0	90	Polysynth	Synth 2	N N
121	1	90	Reso Sweep	Synth 2	_
121	2	90	Sky Watcher	Synth 1	_
121	3	90	Synth Sweeper	Synth 2	
121	4	90	Super Sweep	Synth 1	_
121	5	90	Wave Sweep	Synth 1	
121	6	90	Cross Sweep	Synth 1	

CC00	CC32	PC	Name	Bank	GM
121	7	90	Digital PolySix	Synth 2	
121	8	90	Noisy Stabb	Synth 2	
121	9	90	Mega Synth	Synth 2	
121	10	90	Tecno Phonic	Synth 2	
121	11	90	Farluce	Synth 1	
121	12	90	Big Sweep Stab	Synth 1	
121	13	90	Korgmatose	Synth 1	
121	0	91	Choir Pad	Strings & Vocal	1
121	1	91	Itopia Pad	Synth 1	1
121	2	91	Fresh Air	Strings & Vocal	
121	3	91	Heaven	Strings & Vocal	
121	4	91	Pop Synth Pad	Synth 2	
121	5	91	Future Pad	Synth 1	
			-		
121	6	91	Tsunami Wave	Synth 1	
121	7	91	Fresh Breath	Strings & Vocal	
121	8	91	Ravelian Pad	Synth 1	
121	9	91	Full Vox Pad	Strings & Vocal	
121	10	91	Dance ReMix	Synth 1	
121	0	92	Bowed Glass	Synth 2	V
121	0	93	Metallic Pad	Synth 2	\checkmark
121	1	93	Cosmic	Synth 2	
121	0	94	Halo Pad	Strings & Vocal	\checkmark
121	0	95	Sweep Pad	Synth 1	\checkmark
121	1	95	Astral Dream	Synth 1	
121	2	95	Meditate	Synth 1	
121	3	95	Dark Element	Synth 2	
121	4	95	Mellow Pad	Synth 1	
121	5	95	Cinema Pad	Synth 1	
121	6	95	Reoccuring Astra	Synth 1	
121	7	95	Vintage Sweep	Synth 1	
121	8	95	You Decide	Synth 1	
121	0	96	Ice Rain	SFX	1
121	1	96	Motion Ocean	Synth 1	,
121	2	96	Caribbean	Synth 2	
121	0	97	Soundtrack	-	
		-	-	Synth 1	v
121	1	97	Air Clouds	Synth 1	_
121	2	97	Reso Down	Synth 1	
121	3	97	Tinklin Pad	Synth 1	
121	4	97	Pods In Pad	Synth 1	
121	5	97	Noble Pad	Synth 1	
121	6	97	Rave	Synth 1	
121	7	97	Elastick Pad	Synth 1	
121	0	98	Crystal	Synth 2	1
121	1	98	Synth Mallet	SFX	\checkmark
121	2	98	Vs Bell Boy	Mallet & Bell	
121	3	98	Krystal Bell	Mallet & Bell	
121	4	98	Digi Bell	Mallet & Bell	
121	5	98	Moving Bell	Synth 1	
121	6	98	Bell Pad	Synth 1	
121	7	98	Bell Choir	Synth 1	
121	0	99	Atmosphere	Synth 2	√
121	0	100	Brightness	Synth 2	1
121	1	100	Lonely Spin	Synth 1	
121	2	100	Synth Ghostly	Synth 1	
121	0	100	Goblins	SFX	√
121	1	101	Motion Raver	Synth 2	· ·
121	2	101	Digi Ice Pad	Synth 1	
			-	-	_
121	3	101	VCF Modulation	Synth 2	
121	0	102	Echo Drops	SFX	V
121	1	102	Echo Bell	SFX	1
121		102	Echo Pan	SFX	

CC00	CC32	PC	Name	Bank	GM2
121	4	102	Pan Reso	Synth 2	
121	5	102	Moon Cycles	Synth 1	
121	0	103	Star Theme	SFX	√
121	0	104	Sitar 1	Guitar	√
121	1	104	Sitar 2	Guitar	√
121	2	104	Sitar Tambou	Guitar	
121	3	104	Indian Stars	Guitar	
121	4	104	Indian Frets	Guitar	
121	5	104	Bouzouki	Guitar	
121	6	104	Tambra	Guitar	
121	7	104	Sitar Sitar	Guitar	
121	0	104		Guitar	√
	-		Banjo		v
121	1	105	Banjo Key Off	Guitar	
121	2	105	Oud	Guitar	
121	3	105	Jaw Harp	SFX	
121	0	106	Shamisen	Guitar	1
121	0	107	Koto	Guitar	√
121	1	107	Taisho Koto	Guitar	√
121	2	107	Kanun	Guitar	
121	3	107	Kanun Trem.	Guitar	
121	4	107	Kanun Mix	Guitar	
121	0	108	Kalimba	Mallet & Bell	1
121	1	108	Kalimba Vel.	Mallet & Bell	
121	0	109	Bag Pipes	Woodwind	1
121	1	109	War Pipes	Woodwind	
121	2	109	Uillean BagPipes	Woodwind	
121	3	109	HighlandBagPipes	Woodwind	
121	0	110	Fiddle	Strings & Vocal	1
121	0	111	Shanai	Woodwind	1
121	1	111	Zurna	Woodwind	
121	2	111	Hichiriki	Woodwind	
121	0	112	Tinkle Bell	Mallet & Bell	
121	1	112	Gamelan	Mallet & Bell	· ·
121	2	112	Bali Gamelan	Mallet & Bell	
121	3	112	Garbage Mall	Mallet & Bell	1
121	0	113	Agogo	Drum & Perc.	1
121	0	114	Steel Drums	Mallet & Bell	√
121	1	114	Warm Steel	Mallet & Bell	
121	0	115	Woodblock	Drum & Perc.	1
121	1	115	Castanets	Drum & Perc.	√
121	0	116	Taiko Drum	Drum & Perc.	1
121	1	116	Concert BassDrum	Drum & Perc.	\checkmark
121	0	117	Melodic Tom 1	Drum & Perc.	\checkmark
121	1	117	Melodic Tom 2	Drum & Perc.	V
121	2	117	Reverse Tom	Drum & Perc.	
121	0	118	Synth Drum	Drum & Perc.	V
121	1	118	Rhythm Box Tom	Drum & Perc.	1
121	2	118	Electric Drum	Drum & Perc.	√
121	3	118	Reverse Snare	Drum & Perc.	
121	0	119	Reverse Cymbal	Drum & Perc.	1
121	1	119	Dragon Gong	Drum & Perc.	+
121	0	120	Guitar FretNoise	SFX	1
121	1	120	Guitar Cut Noise	SFX	1
121	2	120	Ac. Bass String	SFX	√
121	3	120	Vox Wah Chick	Guitar	,
121	0	120	Breath Noise	SFX	√
121	1	121	Flute Click	Woodwind	√
121	0	122	Seashore	SFX	1
121	1	122	Rain	SFX	1
121	2	122	Thunder	SFX	V
121	3	122	Wind	SFX	\checkmark
	-		-	-	

CC00	CC32	PC	Name	Bank	GM2
121	5	122	Bubble	SFX	1
121	0	123	Bird Tweet 1	SFX	√
121	1	123	Dog	SFX	√
121	2	123	Horse Gallop	SFX	√
121	3	123	Bird Tweet 2	SFX	√
121	0	124	Telephone 1	SFX	√
121	1	124	Telephone 2	SFX	
121	2	124	Door Creak	SFX	V
121	3	124	Door	SFX	V
121	4	124	Scratch	SFX	V
121	5	124	Wind Chime	SFX	1
121	0	125	Helicopter	SFX	1
121	1	125	Car Engine	SFX	V
121	2	125	Car Stop	SFX	1
121	3	125	Car Pass	SFX	1
121	4	125	Car Crash	SFX	
121	5	125	Siren	SFX	1
121	6	125	Train	SFX	1
121	7	125	Jet Plane	SFX	1
121	8	125	Starship	SFX	1
121	9	125	Burst Noise	SFX	V
121	0	126	Applause	SFX	1
121	1	126	Laughing	SFX	1
121	2	126	Screaming	SFX	V
121	3	126	Punch	SFX	1
121	4	126	Heart Beat	SFX	1
121	5	126	Footsteps	SFX	V
121	6	126	Stadium	SFX	
121	0	127	Gun Shot	SFX	1
121	1	127	Machine Gun	SFX	\checkmark
121	2	127	Laser Gun	SFX	1
121	3	127	Explosion	SFX	\checkmark
121	127	16	Digital Drawbars	Digi Organ	
121	64	0-127		User 1	
121	65	0-127		User 2	
121	68	0-127		EXB1 Bank 1	
121	69	0-127		EXB1 Bank 2	
121	70	0-127		EXB2 Bank 1	
121	71	0-127		EXB2 Bank 2	

Drum Kits

The following table lists all Pa1X Factory Drum Kits in order of Bank Select-Program Change number.

Legend: The table also includes MIDI data used to remotely select the Drum Kits. CC00: Control Change 0, or Bank Select MSB. CC32: Control Change 32, or Bank Select LSB. PC: Program Change.

CC00	CC32	РС	Name	GM2
120	0	0	Standard Kit RX1	V
120	0	1	Standard Kit RX2	
120	0	2	Standard Kit RX3	
120	0	3	Acoustic Kit	
120	0	4	Pop Std. Kit RX	
120	0	5	Standard Kit 1	
120	0	6	Standard Kit 2	
120	0	7	Standard Kit 3	
120	0	8	Room Kit 1	V
120	0	9	HipHop Kit 1	
120	0	10	Jungle Kit	
120	0	11	Techno Kit 1	
120	0	12	Room Kit 2	
120	0	13	HipHop Kit 2	
120	0	14	Techno Kit 2	
120	0	15	Techno Kit 3	
120	0	16	Power Kit 1	V
120	0	17	Power Kit 2	
120	0	18	Power Kit RX1	
120	0	19	Power Kit RX2	
120	0	20-23	(remap to 16)	
120	0	24	Electro Kit	V
120	0	25	Analog Kit	V
120	0	26	House Kit 1	
120	0	27	House Kit 2	
120	0	28	House Kit 3	
120	0	29	House Kit 4	
120	0	30	House Kit RX1	
120	0	31	House Kit RX2	
120	0	32	Jazz Kit RX1	V
120	0	33	Jazz Kit	

CC00	CC32	PC	Name	GM2
120	0	34	Jazz Kit RX2	
120	0	35	Jazz Kit RX3	
120	0	36-39 ((remap to 32)	
120	0	40	Brush Kit 1	V
120	0	41	Brush Kit 2 VS	
120	0	42	Brush Kit RX	
120	0	43-47 ((remap to 40)	
120	0	48	Orchestra Kit	1
120	0	49 (rer	nap to 48)	
120	0	50	Bdrum & Sdrum	
120	0	51	Arabian Kit 1	
120	0	52-55 ((remap to 48)	
120	0	56	SFX Kit	√
120	0	57-63	(remap to 56)	
120	0	64	Percussion Kit	
120	0	65	Latin Perc. Kit	
120	0	66	Trinity Perc.Kit	
120	0	67	i30 Perc. Kit	
120	0	68-71 ((remap to 64)	
120	0	72	Hip Hop Kit RX	
120	0	73	Techno Kit RX	
120	0	74	Dance Kit RX	
120	0	75-87 ((remap to 5)	
120	0	88	Standard Kit 4	
120	0	89	Pop Std. Kit 1	
120	0	90	Pop Std. Kit 2	
120	0	91-95 ((remap to 5)	
120	0	96	Elektro Kit 1	
120	0	97	Elektro Kit 2	
120	0	98-115	(remap to 5)	
120	0	116 (re	emap to 51)	
120	0	117	Arabian Kit 2	
120	0	118-12	7 (remap to 5)	
120	64	0-63	User DrumKits (1-64)	
120	68	0-63	EXB1 DrumKits (1-64)	
120	70	0-63	EXB2 DrumKits (1-64)	

Drum Kit maps

Legend: In the following Drum Kit tables, the number **120-x-x** before each Drum Kit's name represents the Bank Select MSB (CC00) - Bank Select LSB (CC32) - Program Change (PC) combo. The **Sample** columns contain each sample's number and name. **Excl** is the Exlcusive parameter: when a note is struck, all other notes with the same Exclusive number assigned are stopped. A number between round parenteses (*n*) means a velocity switch, and the number of used velocity layers.

		12	0-0-0: Standard Kit RX	1	12	0-0-1: Standard Kit RX	2	12	0-0-2: Standard Kit RX	3		120-0-3: Acoustic Kit	t l
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
0	C-1	45	SD Wood 2 pp	Off		SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off
1	C#-1	60	SD Solid2 p	Off	1	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off
2	D-1	79	SD Brass2 mf	Off		SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off
3	D#-1	75	SD Brass1 p	Off		SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off
4	E-1	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off
5	F-1		SD Maple1 pp	Off		SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off
6	F#-1	57	SD Solid1 p	Off		SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off
7	G-1	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off Off	53	SD Piccolo2 pp	Off
8	G#-1 A-1	5 25	BD Dry 1 BD House 4	Off Off	5 25	BD Dry 1 BD House 4	Off Off	5 25	BD Dry 1 BD House 4	Off	5 25	BD Dry 1 BD House 4	Off Off
9 10	A-1 A#-1	23	99 SD	Off	23	99 SD	Off	23	99 SD	Off	23	99 SD	Off
11	B-1	40	BD Deep 88	Off		BD Deep 88	Off	40	BD Deep 88	Off	226	88 BD	Off
12	C0	227	88 SD	Off		88 SD	Off	227	88 SD	Off	227	88 SD	Off
13	C#0		SD Piccolo2 pp~f (4)	Off		SD Maple2 pp~ff (6)	Off		SD Wood 2 pp~f (4)	Off	89	SD Off Center	Off
14	D0		SD Piccolo1 pp~f (4)	Off		SD Maple1 pp~ff (6)	Off		SD Wood 1 p~f (3)	Off	100	SD Cracker Room	Off
15	D#0	10	BD Jazz (2)	Off		BD Jazz (2)	Off	10	BD Jazz (2)	Off	11	BD Pillow	Off
16	E0	7	BD Dry 3	Off	1	BD Acoust.1 mf	Off	1	BD Acoust.1 mf	Off	38	BD Amb.Rocker	Off
17	F0	57~59	SD Solid1 p~f (3)	Off	49~52	SD Piccolo1 pp~f (4)	Off	63~68	SD Maple1 pp~ff (6)	Off	91	SD Amb.Piccolo	Off
18	F#0	160~165	HH2 Closed pp~ff (6)	Off	152~155	HH1 Closed pp~f (4)	Off	152~155	HH1 Closed pp~f (4)	Off	171	HH3 Closed2	1
19	G0	8	BD Normal	Off	4	BD Acoust.2 f	Off	4	BD Acoust.2 f	Off	10	BD Jazz	Off
20	G#0	129	Rim Shot f	Off		Rim Shot f	Off	129	Rim Shot f	Off	130	Side Stick Dry	Off
21	A0		SD Wood 2 pp~f (4)	Off		SD Solid2 p~f (3)	Off		SD Piccolo2 pp~f (4)	Off	220	SD Orchestra	7
22	A#0		SD Wood 1 p~f (3)	Off		SD Solid1 p~f (3)	Off		SD Piccolo1 pp~f (4)	Off	219	SD Orch. Roll	7
23	BO	-	Drum Stick Hit	Off		Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off
24	C1		SD Brass2 p~f (3)	Off		SD Brass2 p~f (3)	Off		SD Brass2 p~f (3)	Off	220	SD Orchestra	7
25 26	C#1 D1	81 221	SD Roll Finger Snaps	7 Off	81 221	SD Roll Finger Snaps	7 Off	81 221	SD Roll	7 Off	219 221	SD Orch. Roll	7 Off
20	D#1	270	Zap2	Off	270	Zap2	Off	270	Finger Snaps Zap2	Off	270	Finger Snaps Zap2	Off
27	E1	410	Noise White	Off	410	Noise White	Off	410	Noise White	Off	410	Noise White	Off
20	F1		DJ Scratch2	7		DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7
30	F#1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7
31	G1	132	Drum Stick Hit	, Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off
32	G#1	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off
33	A1	376	Click	Off	376	Click	Off	376	Click	Off	376	Click	Off
34	A#1	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off
35	B1	3~4	BD Acoust.2 mf~f (3)	Off	0~2	BD Acoust.1 p~f (4)	Off	0~2	BD Acoust.1 p~f (4)	Off	8	BD Normal	Off
36	C2	0~2	BD Acoust.1 P~f (4)	Off	3~4	BD Acoust.2 mf~f (3)	Off	3~4	BD Acoust.2 mf~f (3)	Off	11-5	BD Pillow-Dry 1 (2)	Off
37	C#2		Rim Shot p-f (2)	Off		Rim Shot p-f (2)	Off	128	Rim Shot p-f (2)	Off	131	Side Stick Amb	Off
38	D2		SD Maple2 pp~ff (6)	Off		SD Wood 2 pp~f (4)	Off		SD Solid2 p~f (3)	Off	86-87	SD Ghost p-f (2)	Off
39	D#2		88 Claps	Off		88 Claps	Off	230	88 Claps	Off	225	Claps 4	Off
40	E2		SD Maple1 pp~ff (6)	Off		SD Wood 1 p~f (3)	Off		SD Solid1 p~f (3)	Off	86-87	SD Ghost p-f (2)	Off
41	F2		Tom1 Floor p-f (2)	Off		Tom1 Floor p-f (2)	Off	1	Tom1 Floor p-f (2)	Off	145	Tom3 Floor	Off
42 43	F#2 G2		HH2 Closed pp~ff (6) Tom1 Low p-F (2)	1 Off		HH1 Closed pp~f (4) Tom1 Low p-f (2)	1 Off		HH1 Closed pp~f (4) Tom1 Low p-f (2)	1 Off	174 145	HH3 Open 2 Tom3 Floor	1 Off
43	G2 G#2		HH2 Foot p-F (2)	1		HH1 Foot mp-mf (2)	1		HH1 Foot mp-mf (2)	1	143	HH4 Foot	1
45	A2		Tom1 Mid p-F (2)	Off		Tom1 Mid p-f (2)	Off		Tom1 Mid p-f (2)	Off	144	Tom3 Low	Off
46	A#2		HH2 Open p-f (2)	1		HH1 Open mp-mf (2)	1		HH1 Open mp-mf (2)	1	173	HH3 Open 1	1
47	B2		Tom1 Mid p-f (2)	Off		Tom1 Mid p-f (2)	Off		Tom1 Mid p-f (2)	Off	144	Tom3 Low	Off
48	C3		Tom1 Hi p-f (2)	Off		Tom1 Hi p-f (2)	Off		Tom1 Hi p-f (2)	Off	143	Tom3 Hi	Off
49	C#3	195	Crash 19'open2 (2)	Off		Crash 17'edge2 (2)	Off		Crash 17'edge2 (2)	Off	196	Crash 1	Off
50	D3		Tom1 Hi p-f (2)	Off		Tom1 Hi p-f (2)	Off	133-134	Tom1 Hi p-f (2)	Off	143	Tom3 Hi	Off
51	D#3	207-209	Ride 20' mp2-mf2 (2)	Off	207-209	Ride 20' mp2-mf2 (2)	Off	207	Ride 20' mp2	Off	213	Ride Edge 2	Off
52	E3	198	China	Off	198	China	Off	198	China	Off	198	China	Off
53	F3	215	Ride Cup	Off	215	Ride Cup	Off	215	Ride Cup	Off	215	Ride Cup	Off
54	F#3	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off
55	G3	199	Splash 8'edge1	Off	199	Splash 8'edge1	Off	199	Splash 8'edge1	Off	201	Splash	Off
56	G#3	352	Cowbell Crash 17'edge2 (2)	Off	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off Off
57 58	A3 A#3	<i>193</i> 325	Crash 17'edge2 (2) Vibraslap	Off Off	191 325	Crash 15'edge2 (2) Vibraslap	Off Off	191 325	Crash 15'edge2 (2) Vibraslap	Off Off	196 325	Crash 1 Vibraslap	Off
50	B3		Ride 20' mp1-mf1 (2)	Off		Ride 20' mp1-mf1 (2)	Off	208	Ride 20' mf1	Off	214	Ride Jazz	Off
60	с4	206-208	Bongo Hi Open	Off	200-208	Bongo Hi Open	Off	208	Bongo Hi Open	Off	214	Bongo Hi Open	Off
61	C#4	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off
62	D4	292	Conga Hi Slap2	Off	235	Conga Lo Mt Slap	Off	235	Conga Lo Mt Slap	Off	290	Conga Hi Mt Slap	Off
63	D#4	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off
64	E4	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off
65	F4	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off
66	F#4	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off
67	G4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
68	G#4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
69	A4	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off
70	A#4	309	Maracas Push	Off	309	Maracas Push	Off	309	Maracas Push	Off	309	Maracas Push	Off
71	B4	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
													-

		12	20-0-0: Standard Kit R	(1	12	20-0-1: Standard Kit R	(2	12	20-0-2: Standard Kit R)	K 3		120-0-3: Acoustic Kit	:
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
72	C5	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
73	C#5	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3
74	D5	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3
75	D#5	326	Claves	Off	326	Claves	Off	326	Claves	Off	326	Claves	Off
76	E5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
77	F5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
78	F#5	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4
79	G5	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4
80	G#5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5
81	A5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5
82	A#5	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off
83	B5	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off
84	C6	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off
85	C#6	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off
86	D6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6
87	D#6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6
88	E6	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off

		1	120-0-4: Pop Std.Kit RX		120-0-5 (7	5~87, 89~115, 118~127): Star	ndard Kit 1		120-0-6: Standard Kit 2	2		120-0-7: Standard Kit	3
No	te		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
0	C-1	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off
1	C#-1	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off
2	D-1	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off
3	D#-1	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off
4	E-1	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off
5	F-1	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off
6	F#-1	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off
7	G-1	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off
8	G#-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
9	A-1	18	BD Squash	Off	25	BD House 4	Off	25	BD House 4	Off	25	BD House 4	Off
10	A-1 A#-1	115	SD Hip6	Off	228	99 SD	Off	228	99 SD	Off	228	99 SD	Off
					-		-				-		
11	B-1	226	88 BD	Off	226	88 BD	Off	226	88 BD	Off	226	88 BD	Off
12	C0	52	SD Piccolo1 f	Off	227	88 SD	Off	227	88 SD	Off	227	88 SD	Off
13	C#0	59	SD Solid1 f	Off	88	SD Full Room	Off	91	SD Amb.Piccolo	Off	89	SD Off Center	Off
14	D0	52	SD Piccolo1 f	Off	99	SD Processed	1	99	SD Processed	Off	99	SD Processed	Off
15	D#0	36	BD Ambient	Off	5	BD Dry 1	Off	11	BD Pillow	Off	11	BD Pillow	Off
16	EO	16	BD Gated	Off	17	BD Tight	Off	38	BD Amb.Rocker	Off	38	BD Amb.Rocker	Off
17	FO	59	SD Solid1 f	Off	82	SD Dry 1	Off	90	SD Jazz Ring	Off	93	SD Brush Hit	Off
18	F#0		HH2 Closed p-mp (2)	1	171	HH3 Closed2	1	171	HH3 Closed2	1	171	HH3 Closed2	1
19	G0	38	BD Amb.Rocker	Off	7	BD Dry 3	Off	5	BD Dry 1	Off	10	BD Jazz	Off
20	G#0	130	Side Stick Dry	Off	131	Side Stick Amb	Off	130	Side Stick Dry	Off	130	Side Stick Dry	Off
21	A0	67	SD Maple1 f	7	220	SD Orchestra	7	83	SD Dry 2	7	125	SD Brasser	7
22	A#0	68	SD Maple1 ff	7	219	SD Orch. Roll	7	100	SD Cracker Room	7	83	SD Dry 2	Off
23	B0	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off
24	C1	59	SD Solid1 f	7	220	SD Orchestra	7	220	SD Orchestra	7	220	SD Orchestra	7
25	C#1	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	7
26	D1	221	Finger Snaps	Off	221	Finger Snaps	Off	221	Finger Snaps	Off	221	Finger Snaps	Off
27	D#1	270	Zap2	Off	270	Zap2	Off	270	Zap2	Off	270	Zap2	Off
28	E1	410	Noise White	Off	410	Noise White	Off	410	Noise White	Off	410	Noise White	Off
29	F1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7
30	F#1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7
31	G1	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off
32	G#1	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off
33	A1	376	Click	Off	376	Click	Off	376	Click	Off	376	Click	Off
34	A#1	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off
35	B1	38	BD Amb.Rocker	Off	7	BD Dry 3	Off	17	BD Tight	Off	5	BD Dry 1	Off
36	C2	38	BD Amb.Rocker	Off	5	BD Dry 1	Off	17	BD Tubby	Off	15	BD Tubby	Off
30	C#2	129	Rim Shot f	Off	131	Side Stick Amb	Off	131	Side Stick Amb	Off	131	Side Stick Amb	Off
37	D2	47~59	SD Wood 2-Solid1 p~f (6)	Off	83	SD Dry 2	Off	89	SD Off Center	Off	90		Off
	D2 D#2						Off		88 Claps	Off		SD Jazz Ring	-
39		230	88 Claps	Off	225	Claps 4		230			230	88 Claps SD Amb.Piccolo	Off
40	E2		SD Wood 2-Solid1 p~f (6)	Off	88	SD Full Room	Off	89	SD Off Center	Off	91		Off
41	F2	140	Tom1 Floor f	Off	145	Tom3 Floor	Off	145	Tom3 Floor	Off	145	Tom3 Floor	Off
42	F#2		HH2 Closed pp~mf (4)	1	174	HH3 Open 2	1	170	HH3 Closed1	1	176	HH4 Closed1	1
43	G2	138	Tom1 Low f	Off	145	Tom3 Floor	Off	145	Tom3 Floor	Off	145	Tom3 Floor	Off
44	G#2		HH1 Foot mf-mp (2)	1	178	HH4 Foot	1	172	HH3 Foot	1	178	HH4 Foot	1
45	A2	138	Tom1 Low f	Off	144	Tom3 Low	Off	144	Tom3 Low	Off	144	Tom3 Low	Off
46	A#2		HH2 Open p-f (2)	1	173	HH3 Open 1	1	173	HH3 Open 1	1	173	HH3 Open 1	1
47	B2	136	Tom1 Mid f	Off	144	Tom3 Low	Off	144	Tom3 Low	Off	144	Tom3 Low	Off
48	C3	134	Tom1 Hi f	Off	143	Tom3 Hi	Off	143	Tom3 Hi	Off	143	Tom3 Hi	Off
49	C#3	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off
50	D3	134	Tom1 Hi f	Off	143	Tom3 Hi	Off	143	Tom3 Hi	Off	143	Tom3 Hi	Off
51	D#3	207-209	Ride 20' mp2-mf2 (2)	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off
52	E3	198	China	Off	198	China	Off	198	China	Off	198	China	Off
53	F3	206-208	Ride 20' mp1-mf1 (2)	Off	214	Ride Jazz	Off	214	Ride Jazz	Off	214	Ride Jazz	Off
54	F#3	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off
55	G3	201	Splash	Off	201	Splash	Off	201	Splash	Off	201	Splash	Off
56	G#3	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off
57	A3	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off
58	A#3	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off
59	B3	206	Ride 20' mp1	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off
60	с4	206	Bongo Hi Open	Off	215	Bongo Hi Open	Off	215	Bongo Hi Open	Off	213	Bongo Hi Open	Off
00	۲4	298	Bongo El Open	ОП	298	pongo ni Open	Uff	298	Bongo ni Open	UT	298	Bongo ni Open	Un

			120-0-4: Pop Std.Kit R	Х	120-0-5 (7	'5~87, 89~115, 118~127): Sta	ndard Kit 1		120-0-6: Standard Kit	2		120-0-7: Standard Kit	3
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
61	C#4	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off
62	D4	290	Conga Hi Mt Slap	Off	286	Conga Lo Mt Slap	Off	286	Conga Lo Mt Slap	Off	290	Conga Hi Mt Slap	Off
63	D#4	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off
64	E4	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off
65	F4	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off
66	F#4	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off
67	G4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
68	G#4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
69	A4	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off
70	A#4	309	Maracas Push	Off	309	Maracas Push	Off	309	Maracas Push	Off	309	Maracas Push	Off
71	B4	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
72	C5	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
73	C#5	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3
74	D5	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3
75	D#5	326	Claves	Off	326	Claves	Off	326	Claves	Off	326	Claves	Off
76	E5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
77	F5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
78	F#5	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4
79	G5	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4
80	G#5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5
81	A5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5
82	A#5	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off
83	B5	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off
84	C6	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off
85	C#6	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off
86	D6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6
87	D#6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6
88	E6	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off
89	F6										489	Empty	Off
90	F#6										489	Empty	Off
91	G6										489	Empty	Off
92	G#6										489	Empty	Off
93	A6										489	Empty	Off
94	A#6										489	Empty	Off
95	B6										489	Empty	Off
96	C7										489	Empty	Off
97	C#7										489	Empty	Off
98	D7										489	Empty	Off
99	D#7										489	Empty	Off
100	E7										353	Chacha Bell	Off
101	F7										332	Timbale Hi Edge	Off
102	F#7										334	Timbale Hi Rim2	Off
103	G7										333	Timbale Hi Rim1	Off
104	G#7										285	Conga Lo Open (2)	Off
105	A7										286	Conga Lo Mt Slap	Off
106	A#7										288	Conga Hi Open (2)	Off
107	B7										291	Conga Hi Slap1	Off
108	C8										292	Conga Hi Slap2	Off

			120-0-8: Room Kit 1			120-0-9: HipHop Kit 1			120-0-10: Jungle Kit			120-0-11: Techno Kit	1
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
0	C-1	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off
1	C#-1	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off
2	D-1	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off
3	D#-1	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off
4	E-1	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off
5	F-1	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off
6	F#-1	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off
7	G-1	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off
8	G#-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
9	A-1	18	BD Squash	Off	18	BD Squash	Off	18	BD Squash	Off	32	BD Hip 3	Off
10	A#-1	115	SD Hip6	Off	115	SD Hip6	Off	115	SD Hip6	Off	115	SD Hip6	Off
11	B-1	226	88 BD	Off	226	88 BD	Off	226	88 BD	Off	226	88 BD	Off
12	C0	227	88 SD	Off	227	88 SD	Off	227	88 SD	Off	227	88 SD	Off
13	C#0	112	SD Hip3	Off	112	SD Hip3	Off	112	SD Hip3	Off	112	SD Hip3	Off
14	D0	114	SD Hip5	Off	114	SD Hip5	Off	114	SD Hip5	Off	114	SD Hip5	Off
15	D#0	36	BD Ambient	Off	36	BD Ambient	Off	36	BD Ambient	Off	36	BD Ambient	Off
16	E0	16	BD Gated	Off	16	BD Gated	Off	16	BD Gated	Off	16	BD Gated	Off
17	F0	91	SD Amb.Piccolo	Off	91	SD Amb.Piccolo	Off	91	SD Amb.Piccolo	Off	91	SD Amb.Piccolo	Off
18	F#0	174	HH3 Open 2	1	174	HH3 Open 2	1	174	HH3 Open 2	1	174	HH3 Open 2	1
19	G0	11	BD Pillow	Off		BD Pillow	Off	11	BD Pillow	Off	11	BD Pillow	Off
20	G#0	130	Side Stick Dry	Off		Side Stick Dry	Off	130	Side Stick Dry	Off	130	Side Stick Dry	Off
21	A0	98	SD Yowie	7	98	SD Yowie	Off	98	SD Yowie	Off	98	SD Yowie	Off
22	A#0	115	SD Hip6	7	115	SD Hip6	Off	115	SD Hip6	Off	115	SD Hip6	Off
23	B0	132	Drum Stick Hit	Off	-	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off
24	C1	220	SD Orchestra	7	220	SD Orchestra	7	220	SD Orchestra	7	220	SD Orchestra	7
25	C#1	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	7
26	D1	221	Finger Snaps	Off	221	Finger Snaps	Off	221	Finger Snaps	Off	221	Finger Snaps	Off
27	D#1	270	Zap2	Off		Zap2	Off	270	Zap2	Off	270	Zap2	Off
28	E1	410	Noise White	Off	410	Noise White	Off	410	Noise White	Off	410	Noise White	Off
29	F1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7

			120-0-8: Room Kit 1			120-0-9: HipHop Kit 1			120-0-10: Jungle Kit			120-0-11: Techno Kit 1	1
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
30	F#1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7
31	G1	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off
32	G#1	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off
33	A1	376	Click	Off	376	Click	Off	376	Click	Off	376	Click	Off
34	A#1	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off
35	B1	15	BD Tubby	Off	39	BD Pop 99	Off	30	BD Hip 1	Off	18	BD Squash	Off
36	C2	38	BD Amb.Rocker	Off	32	BD Hip 3	Off	40	BD Deep 88	Off	25	BD House 4	Off
37	C#2	130	Side Stick Dry	Off	229	88 Rim Shot	Off	221	Finger Snaps	Off	369	Comp Voice Noise	Off
38	D2	100	SD Cracker Room	Off	116	SD Ringy	Off	122	SD Vintage5	Off	228	99 SD	Off
39	D#2	230	88 Claps	Off	230	88 Claps	Off	230	88 Claps	Off	230	88 Claps	Off
40	E2	88	SD Full Room	Off	123	SD Vintage6	Off	117	SD Tiny	Off	228	99 SD	Off
41	F2	145	Tom3 Floor	Off	141	Tom2 Hi	Off	141	Tom2 Hi	Off	266	E.Tom Real	Off
42	F#2	170	HH3 Closed1	1	181	HH Old Close1	1	232	88 HH Open	1	183	HH Old TiteClose	1
43	G2	145	Tom3 Floor	Off	141	Tom2 Hi	Off	141	Tom2 Hi	Off	266	E.Tom Real	Off
44	G#2	178	HH4 Foot	1	184	HH Old Close2	Off	188	НН Нір	Off	189	HH Alpo Close	Off
45	A2	144	Tom3 Low	Off	141	Tom2 Hi	Off	141	Tom2 Hi	Off	266	E.Tom Real	Off
46	A#2	144	HH4 Open	1	182	HH Old Open1	1	182	HH Old Open1	1	185	HH Old Open2	1
40	B2	144	Tom3 Low	Off	141	Tom2 Hi	Off	141	Tom2 Hi	Off	266	E.Tom Real	Off
47	C3	144	Tom3 Hi	Off	141	Tom2 Hi	Off	141	Tom2 Hi	Off	266	E.Tom Real	Off
48	C#3	145	Crash 1	Off	196	Crash 1	Off	235	88 Crash	Off	196	Crash 1	Off
50	D3	130	Tom3 Hi	Off	141	Tom2 Hi	Off	141	Tom2 Hi	Off	266	E.Tom Real	Off
50	D#3	213	Ride Edge 2	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off
52	E3	198	China	Off	202	Crash Reverse	Off	213	Crash Reverse	Off	202	Crash Reverse	Off
52	F3	214	Ride Jazz	Off	202	Ride Jazz	Off	202	Ride Jazz	Off	202	Ride Jazz	Off
54	F#3	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off
55	G3	201	Splash	Off	201	Splash	Off	201	Splash	Off	198	China	Off
55	G#3	352	Cowbell	Off	239	88 Cowbell	Off	239	88 Cowbell	Off	352	Cowbell	Off
57	A3	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off
58	A3 A#3	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off
58	B3	213	Ride Edge 2	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off
60	63 C4	213	Bongo Hi Open	Off	213	Bongo Hi Open	Off	213	Bongo Hi Open	Off	213	Bongo Hi Open	Off
61	C#4	295		Off	298		Off	290		Off	298		Off
	D4		Bongo Lo Open			Bongo Lo Open			Bongo Lo Open			Bongo Lo Open	
62 63	D4	290 288	Conga Hi Mt Slap	Off Off	290 288	Conga Hi Mt Slap	Off Off	290 288	Conga Hi Mt Slap	Off Off	290 288	Conga Hi Mt Slap	Off Off
64	E4		Conga Hi Open	Off		Conga Hi Open	Off		Conga Hi Open	Off		Conga Hi Open	Off
-		285	Conga Lo Open		285	Conga Lo Open		285	Conga Lo Open		285	Conga Lo Open	
65	F4	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off
66	F#4	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off
67	G4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
68	G#4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
69	A4	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off
70	A#4	309	Maracas Push	Off	185	HH Old Open2	Off	185	HH Old Open2	Off	309	Maracas Push	Off
71	B4	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
72	C5	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
73	C#5	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3
74	D5	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3
75	D#5	326	Claves	Off	326	Claves	Off	326	Claves	Off	326	Claves	Off
76	E5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
77	F5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
78	F#5	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4
79	G5	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4
80	G#5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5
81	A5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5
82	A#5	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off
83	B5	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off
84	C6	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off
85	C#6	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off
86	D6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6
87	D#6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6
88	E6	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off

			120-0-12: Room Kit 2			120-0-13: HipHop Kit 2			120-0-14: Techno Kit 2			120-0-15: Techno Kit 3	i
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
0	C-1	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off
1	C#-1	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off
2	D-1	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off
3	D#-1	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off
4	E-1	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off
5	F-1	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off
6	F#-1	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off
7	G-1	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off
8	G#-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
9	A-1	18	BD Squash	Off	18	BD Squash	Off	18	BD Squash	Off	18	BD Squash	Off
10	A#-1	115	SD Hip6	Off	115	SD Hip6	Off	115	SD Hip6	Off	115	SD Hip6	Off
11	B-1	226	88 BD	Off	226	88 BD	Off	226	88 BD	Off	226	88 BD	Off
12	C0	227	88 SD	Off	227	88 SD	Off	227	88 SD	Off	227	88 SD	Off
13	C#0	112	SD Hip3	Off	112	SD Hip3	Off	112	SD Hip3	Off	112	SD Hip3	Off
14	D0	114	SD Hip5	Off	114	SD Hip5	Off	114	SD Hip5	Off	114	SD Hip5	Off
15	D#0	36	BD Ambient	Off	36	BD Ambient	Off	36	BD Ambient	Off	36	BD Ambient	Off
16	E0	16	BD Gated	Off	16	BD Gated	Off	16	BD Gated	Off	16	BD Gated	Off
17	F0	91	SD Amb.Piccolo	Off	91	SD Amb.Piccolo	Off	91	SD Amb.Piccolo	Off	91	SD Amb.Piccolo	Off
18	F#0	174	HH3 Open 2	1	174	HH3 Open 2	1	174	HH3 Open 2	1	174	HH3 Open 2	1

			120-0-12: Room Kit 2			120-0-13: HipHop Kit 2			120-0-14: Techno Kit 2			120-0-15: Techno Kit 3	3
No	ote		Sample	Excl.									
19	G0	11	BD Pillow	Off									
20	G#0	130	Side Stick Dry	Off									
21	A0	97	SD Big Rock	Off	98	SD Yowie	Off	98	SD Yowie	Off	98	SD Yowie	Off
22	A#0	115	SD Hip6	Off									
23	BO	132	Drum Stick Hit	Off									
24	C1	220	SD Orchestra	7									
25	C#1	219	SD Orch. Roll	7									
26	D1	221	Finger Snaps	Off									
27	D#1	270	Zap2	Off									
28 29	E1 F1	410 272	Noise White DJ Scratch2	Off	410 272	Noise White DJ Scratch2	Off	410	Noise White	Off	410 272	Noise White DJ Scratch2	Off
30	F1 F#1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2 DJ Scratch2	7	272	DJ Scratch2	7
31	G1	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	, Off	132	Drum Stick Hit	/ Off
32	G#1	269	Zap1	Off									
33	A1	376	Click	Off									
34	A#1	340	Triangle Open	Off									
35	B1	17	BD Tight	Off	36	BD Ambient	Off	34	BD Pop Kick	Off	34	BD Pop Kick	Off
36	C2	38	BD Amb.Rocker	Off	35	BD Dance 99	Off	25	BD House 4	Off	25	BD House 4	Off
37	C#2	130	Side Stick Dry	Off	221	Finger Snaps	Off	229	88 Rim Shot	Off	267	Rim House1	Off
38	D2	99	SD Processed	Off	107	SD Rap	Off	108	SD Noise	Off	126	SD Chili	Off
39	D#2	230	88 Claps	Off	464	Alkis	Off	230	88 Claps	Off	230	88 Claps	Off
40	E2	98	SD Yowie	Off	111	SD Hip2	Off	270	Zap2	Off	227	88 SD	Off
41	F2	142	Tom2 Floor	Off	141	Tom2 Hi	Off	236	88 Tom	Off	386	Tribe	Off
42	F#2	177	HH4 Closed2	1	181	HH Old Close1	1	183	HH Old TiteClose	1	233	99 HH Close	1
43	G2	142	Tom2 Floor	Off	141	Tom2 Hi	Off	236	88 Tom	Off	402	Wind	Off
44	G#2	178	HH4 Foot	1	188	НН Нір	Off	189	HH Alpo Close	Off	184	HH Old Close2	Off
45	A2	141	Tom2 Hi	Off	141	Tom2 Hi	Off	236	88 Tom	Off	425	Amp Noise	Off
46	A#2	175	HH3 Sizzle	1	182	HH Old Open1	1	185	HH Old Open2	1	234	99 HH Open	1
47	B2	141	Tom2 Hi	Off	141	Tom2 Hi	Off	236	88 Tom	Off	266	E.Tom Real	Off
48	C3	141	Tom2 Hi	Off	141	Tom2 Hi	Off	236	88 Tom	Off	266	E.Tom Real	Off
49	C#3	196	Crash 1	Off									
50	D3	141	Tom2 Hi	Off	141	Tom2 Hi	Off	236	88 Tom	Off	266	E.Tom Real	Off
51	D#3 E3	213	Ride Edge 2	Off	213	Ride Edge 2	Off Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off
52 53	F3	198 214	China Ride Jazz	Off Off	202 214	Crash Reverse Ride Jazz	Off	202 214	Crash Reverse Ride Jazz	Off Off	202 214	Crash Reverse Ride Jazz	Off Off
54	F#3	339	Tambourine Acc2	Off									
55	G3	201	Splash	Off	201	Splash	Off	201	Splash	Off	407	Xylophone Spectr	Off
56	G#3	352	Cowbell	Off	239	88 Cowbell	Off	239	88 Cowbell	Off	239	88 Cowbell	Off
57	A3	196	Crash 1	Off									
58	A#3	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off	339	Tambourine Acc2	Off
59	B3	213	Ride Edge 2	Off									
60	C4	298	Bongo Hi Open	Off	298	Bongo Hi Open	Off	237	88 Conga	Off	298	Bongo Hi Open	Off
61	C#4	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off	237	88 Conga	Off	295	Bongo Lo Open	Off
62	D4	290	Conga Hi Mt Slap	Off	290	Conga Hi Mt Slap	Off	237	88 Conga	Off	290	Conga Hi Mt Slap	Off
63	D#4	288	Conga Hi Open	Off	288	Conga Hi Open	Off	237	88 Conga	Off	288	Conga Hi Open	Off
64	E4	285	Conga Lo Open	Off	285	Conga Lo Open	Off	237	88 Conga	Off	285	Conga Lo Open	Off
65	F4	334	Timbale Hi Rim2	Off									
66	F#4	329	Timbale Lo Open	Off									
67	G4	351	Agogo Bell	Off									
68	G#4	351	Agogo Bell	Off									
69 70	A4 A#4	346 309	Cabasa Up Maracas Push	Off Off	346 185	Cabasa Up HH Old Open2	Off Off	346	Cabasa Up Maracas Push	Off Off	346 309	Cabasa Up Maracas Push	Off Off
70	A#4 B4	309	Samba Whistle	2	361	Samba Whistle	2	309 361	Samba Whistle	2	309	Samba Whistle	2
71	Б4 С5	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
72	C#5	308	Guiro Short	3									
74	D5	307	Guiro Long	3									
75	D#5	326	Claves	Off									
76	E5	327	Woodblock1	Off									
77	F5	327	Woodblock1	Off									
78	F#5	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4	366	Uhh	Off
79	G5	343	Cuica Lo	4	343	Cuica Lo	4	342	Cuica Hi	4	364	Yeah!	Off
80	G#5	341	Triangle Mute	5	341	Triangle Mute	5	360	Flexatone	5	341	Triangle Mute	5
81	A5	340	Triangle Open	5	340	Triangle Open	5	360	Flexatone	5	340	Triangle Open	5
82	A#5	347	Cabasa Down	Off									
83	B5	355	Sleigh Bell	Off									
84	C6	358	Marc Tree	Off									
85	C#6	305	Castanet Single	Off									
86	D6	330	Timbale Lo Mute	6									
87	D#6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	469	Darbuka1 Tek2	6	329	Timbale Lo Open	6
88	E6	370	Stadium	Off									

		120	-0-16 (20~23): Power K	it 1		120-0-17: Power Kit 2		1	20-0-18: Power Kit RX	1	1	20-0-19: Power Kit RX	2
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
0	C-1	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off
1	C#-1	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off
2	D-1	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off
3	D#-1	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off
4	E-1	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off
5	F-1	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off
6	F#-1	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off
7	G-1	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off

		120	-0-16 (20~23): Power I			120-0-17: Power Kit 2		1	20-0-18: Power Kit RX1		12	20-0-19: Power Kit RX2	-
No		-	Sample	Excl.	-	Sample	Excl.	-	Sample	Excl.	-	Sample	Excl.
8	G#-1 A-1	5 35	BD Dry 1 BD Dance 99	Off Off	5 35	BD Dry 1 BD Dance 99	Off Off	5 18	BD Dry 1 BD Squash	Off Off		BD Dry 1 BD Squash	Off Off
10	A+1 A#-1	228	99 SD	Off	228	99 SD	Off	115	SD Hip6	Off	-	SD Hip6	Off
11	B-1	226	88 BD	Off	226	88 BD	Off	226	88 BD	Off	226	88 BD	Off
12	C0	227	88 SD	Off	227	88 SD	Off	52	SD Piccolo1 f	Off		SD Piccolo1 f	Off
13	C#0 D0	121	SD Vintage4	Off	121	SD Vintage4	Off	59	SD Solid1 f	Off		SD Solid1 f	Off
14 15	D0 D#0	120 38	SD Vintage3 BD Amb.Rocker	Off Off	120 38	SD Vintage3 BD Amb.Rocker	Off Off	68 36	SD Maple1 ff BD Ambient	Off Off		SD Maple1 ff BD Ambient	Off Off
15	E0	30	BD Hip 1	Off	30	BD Hip 1	Off	16	BD Gated	Off		BD Gated	Off
17	F0	89	SD Off Center	Off	89	SD Off Center	Off	52	SD Piccolo1 f	Off		SD Piccolo1 f	Off
18	F#0	177	HH4 Closed2	1	177	HH4 Closed2	1		HH2 Closed p-mp (2)	1		HH2 Closed p-mp (2)	1
19 20	G0 G#0	18 131	BD Squash Side Stick Amb	Off Off	18 131	BD Squash Side Stick Amb	Off Off	38 130	BD Amb.Rocker	Off Off		BD Amb.Rocker	Off Off
20	A0	118	SD Vintage1	Off	118	SD Vintage1	Off	67	Side Stick Dry SD Maple1 f	7		Side Stick Dry SD Maple1 f	7
22	A#0	125	SD Brasser	Off	125	SD Brasser	Off	68	SD Maple1 ff	7		SD Maple1 ff	7
23	BO	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off		Drum Stick Hit	Off
24	C1	220	SD Orchestra	7	220	SD Orchestra	7	56	SD Piccolo2 f	7		SD Piccolo2 f	7
25 26	C#1 D1	219 221	SD Orch. Roll Finger Snaps	7 Off	219 221	SD Orch. Roll Finger Snaps	7 Off	219 221	SD Orch. Roll Finger Snaps	7 Off		SD Orch. Roll Finger Snaps	7 Off
20	D#1	270	Zap2	Off	270	Zap2	Off	270	Zap2	Off		Zap2	Off
28	E1	410	Noise White	Off	410	Noise White	Off	410	Noise White	Off		Noise White	Off
29	F1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7		DJ Scratch2	7
30	F#1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7		DJ Scratch2	7
31 32	G1 G#1	132 269	Drum Stick Hit Zap1	Off Off	132 269	Drum Stick Hit Zap1	Off Off	132 269	Drum Stick Hit Zap1	Off Off	132 269	Drum Stick Hit Zap1	Off Off
32	A1	376	Click	Off	376	Click	Off	376	Click	Off	376	Click	Off
34	A#1	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off
35	B1	16	BD Gated	Off	34	BD Pop Kick	Off	38	BD Amb.Rocker	Off		BD Dry 3	Off
36	C2	14	BD Terminator	Off	16	BD Gated	Off	38	BD Amb.Rocker	Off		BD Amb.Rocker	Off
37 38	C#2 D2	131 101	Side Stick Amb	Off Off	130 99	Side Stick Dry SD Processed	Off Off	129	Rim Shot f SD Wood 2 pp~f (6)	Off Off	129 53	Rim Shot f SD Piccolo2 pp (2)	Off Off
39	D#2	225	Claps 4	Off	225	Claps 4	Off	230	88 Claps	Off		88 Claps	Off
40	E2	100	SD Cracker Room	Off	116	SD Ringy	Off		SD Wood 2~Piccolo2 p~f (6)	Off		SD Wood 2~Piccolo2 p~f (6)	Off
41	F2	148	Tom Processed	Off	148	Tom Processed	Off	140	Tom1 Floor f	Off	140	Tom1 Floor f	Off
42	F#2	176	HH4 Closed1	1	177	HH4 Closed2	1		HH2 Closed pp~mf (4)	1		HH2 Closed pp~mf (4)	1
43 44	G2 G#2	148 172	Tom Processed HH3 Foot	Off 1	148 178	Tom Processed HH4 Foot	Off 1	138	Tom1 Low f HH1 Foot mf-mp (2)	Off 1	138	Tom1 Low f HH1 Foot mf-mp (2)	Off 1
44	A2	148	Tom Processed	Off	148	Tom Processed	Off	138	Tom1 Low f	Off	138	Tom1 Low f	Off
46	A#2	180	HH4 Open	1	180	HH4 Open	1		HH2 Open p-f (2)	1		HH2 Open p-f (2)	1
47	B2	148	Tom Processed	Off	148	Tom Processed	Off	136	Tom1 Mid f	Off	136	Tom1 Mid f	Off
48	C3	148	Tom Processed	Off	148	Tom Processed	Off	134	Tom1 Hi f	Off	134	Tom1 Hi f	Off
49 50	C#3 D3	196 148	Crash 1 Tom Processed	Off Off	196 148	Crash 1 Tom Processed	Off Off	196 134	Crash 1 Tom1 Hi f	Off Off	196 134	Crash 1 Tom1 Hi f	Off Off
50	D#3	213	Ride Edge 2	Off	213	Ride Edge 2	Off		Ride 20' mp2-mf2 (2)	Off		Ride 20' mp2-mf2 (2)	Off
52	E3	198	China	Off	198	China	Off	198	China	Off	198	China	Off
53	F3	214	Ride Jazz	Off	214	Ride Jazz	Off	206-208	Ride 20' mp1-mf1 (2)	Off		Ride 20' mp1-mf1 (2)	Off
54 55	F#3 G3	339 201	Tambourine Acc2 Splash	Off Off	339 201	Tambourine Acc2 Splash	Off Off	339 201	Tambourine Acc2 Splash	Off Off	339 201	Tambourine Acc2 Splash	Off Off
55	G#3	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off
57	A3	196	Crash 1	Off		Crash 1	Off	196	Crash 1	Off		Crash 1	Off
58	A#3	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off
59	B3	213	Ride Edge 2	Off	213	Ride Edge 2	Off	206	Ride 20' mp1	Off		Ride 20' mp1	Off
60 61	C4 C#4	298 295	Bongo Hi Open Bongo Lo Open	Off Off	298 295	Bongo Hi Open Bongo Lo Open	Off Off	298 295	Bongo Hi Open Bongo Lo Open	Off Off		Bongo Hi Open Bongo Lo Open	Off Off
62	D4	290	Conga Hi Mt Slap	Off	290	Conga Hi Mt Slap	Off	290	Conga Hi Mt Slap	Off	290	Conga Hi Mt Slap	Off
63	D#4	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off
64	E4	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off
65 66	F4 F#4	334 329	Timbale Hi Rim2 Timbale Lo Open	Off Off	334 329	Timbale Hi Rim2 Timbale Lo Open	Off Off	334 329	Timbale Hi Rim2 Timbale Lo Open	Off Off	334 329	Timbale Hi Rim2 Timbale Lo Open	Off Off
67	F#4 G4	329	Agogo Bell	Off	329	Agogo Bell	Off	329	Agogo Bell	Off		Agogo Bell	Off
68	G#4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
69	A4	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off
70	A#4	309	Maracas Push	Off	309	Maracas Push	Off	309	Maracas Push	Off		Maracas Push	Off
71 72	B4 C5	361 361	Samba Whistle Samba Whistle	2	361 361	Samba Whistle Samba Whistle	2	361 361	Samba Whistle Samba Whistle	2		Samba Whistle Samba Whistle	2
72	C#5	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3
74	D5	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3		Guiro Long	3
75	D#5	326	Claves	Off	326	Claves	Off	326	Claves	Off	326	Claves	Off
76	E5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
77 78	F5 F#5	327 342	Woodblock1 Cuica Hi	Off 4	327 342	Woodblock1 Cuica Hi	Off 4	327 342	Woodblock1 Cuica Hi	Off 4	327 342	Woodblock1 Cuica Hi	Off 4
78	G5	343	Cuica Lo	4	343	Cuica Lo	4	342	Cuica Lo	4	342	Cuica Lo	4
80	G#5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5
81	A5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5
						Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off
82	A#5	347	Cabasa Down	Off	347						255		0.0
83	A#5 B5	347 355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off		Sleigh Bell	Off
	A#5	347	Sleigh Bell Marc Tree			Sleigh Bell Marc Tree			Sleigh Bell Marc Tree	Off Off	358	Sleigh Bell Marc Tree	Off Off Off
83 84 85 86	A#5 B5 C6 C#6 D6	347 355 358 305 330	Sleigh Bell Marc Tree Castanet Single Timbale Lo Mute	Off Off Off 6	355 358 305 330	Sleigh Bell Marc Tree Castanet Single Timbale Lo Mute	Off Off Off 6	355 358 305 330	Sleigh Bell Marc Tree Castanet Single Timbale Lo Mute	Off Off Off 6	358 305 330	Sleigh Bell Marc Tree Castanet Single Timbale Lo Mute	Off
83 84 85	A#5 B5 C6 C#6	347 355 358 305	Sleigh Bell Marc Tree Castanet Single	Off Off Off	355 358 305	Sleigh Bell Marc Tree Castanet Single	Off Off Off	355 358 305	Sleigh Bell Marc Tree Castanet Single	Off Off Off	358 305 330 329	Sleigh Bell Marc Tree Castanet Single	Off Off

			120-0-24: Electro Kit			120-0-25: Analog Kit			120-0-26: House Kit 1			120-0-27: House Kit 2	2
No			Sample	Excl.									
0	C-1 C#-1	45 60	SD Wood 2 pp SD Solid2 p	Off Off	45 60	SD Wood 2 pp SD Solid2 p	Off Off	45 60	SD Wood 2 pp SD Solid2 p	Off Off	45 60	SD Wood 2 pp SD Solid2 p	Off Off
2	D-1	79	SD Brass2 mf	Off									
3	D#-1	75	SD Brass1 p	Off									
4	E-1	69	SD Maple2 pp	Off									
5	F-1	63	SD Maple1 pp	Off									
6 7	F#-1 G-1	57 53	SD Solid1 p SD Piccolo2 pp	Off Off	57 53	SD Solid1 p SD Piccolo2 pp	Off Off	57 53	SD Solid1 p SD Piccolo2 pp	Off Off	57 53	SD Solid1 p SD Piccolo2 pp	Off Off
8	G#-1	5	BD Dry 1	Off									
9	A-1	30	BD Hip 1	Off	400	Explosion	Off	34	BD Pop Kick	Off	34	BD Pop Kick	Off
10	A#-1	228	99 SD	Off	115	SD Hip6	Off	123	SD Vintage6	Off	228	99 SD	Off
11	B-1	226	88 BD	Off	8	BD Normal	Off	40	BD Deep 88	Off	40	BD Deep 88	Off
12 13	C0 C#0	227 89	88 SD SD Off Center	Off Off	98 90	SD Yowie SD Jazz Ring	Off Off	227 101	88 SD SD Dance	Off Off	227 101	88 SD SD Dance	Off Off
13	D0	120	SD Vintage3	Off	127	SD Whopper	Off	91	SD Amb.Piccolo	Off	91	SD Amb.Piccolo	Off
15	D#0	34	BD Pop Kick	Off	34	BD Pop Kick	Off	36	BD Ambient	Off	36	BD Ambient	Off
16	E0	36	BD Ambient	Off	35	BD Dance 99	Off	14	BD Terminator	Off	14	BD Terminator	Off
17	FO	115	SD Hip6	Off	125	SD Brasser	Off	121	SD Vintage4	Off	121	SD Vintage4	Off
18	F#0 G0	231 25	88 HH Close	1 Off	170 30	HH3 Closed1	1 Off	270	Zap2	Off Off	270	Zap2	Off
19 20	GU G#0	25	BD House 4 Zap2	Off	269	BD Hip 1 Zap1	Off	33 269	BD Hip 4 Zap1	Off	33 269	BD Hip 4 Zap1	Off Off
21	A0	99	SD Processed	Off	115	SD Hip6	Off	122	SD Vintage5	Off	122	SD Vintage5	Off
22	A#0	121	SD Vintage4	Off	117	SD Tiny	Off	429	Mouth Harp	Off	429	Mouth Harp	Off
23	B0	132	Drum Stick Hit	Off									
24	C1	220	SD Orchestra	7									
25 26	C#1 D1	219 221	SD Orch. Roll Finger Snaps	7 Off	219 221	SD Orch. Roll Finger Snaps	7 Off	219 221	SD Orch. Roll Finger Snaps	7 Off	219 221	SD Orch. Roll Finger Snaps	7 Off
20	D1 D#1	270	Zap2	Off	270	Zap2	Off	270	Zap2	Off	221	Zap2	Off
28	E1	410	Noise White	Off									
29	F1	272	DJ Scratch2	7									
30	F#1	272	DJ Scratch2	7									
31	G1	132	Drum Stick Hit	Off									
32 33	G#1 A1	269 376	Zap1 Click	Off Off	269 376	Zap1 Click	Off Off	269 376	Zap1 Click	Off Off	269 376	Zap1 Click	Off Off
34	A#1	340	Triangle Open	Off									
35	B1	20	BD Dance 2	Off	40	BD Deep 88	Off	32	BD Hip 3	Off	32	BD Hip 3	Off
36	C2	265	E.Tom FM	Off	40	BD Deep 88	Off	36	BD Ambient	Off	18	BD Squash	Off
37	C#2	268	Rim House2	Off	229	88 Rim Shot	Off	268	Rim House2	Off	446	Rek Jingle	Off
38	D2	266	E.Tom Real	Off	227	88 SD	Off	117	SD Tiny	Off	121	SD Vintage4	Off Off
39 40	D#2 E2	230 114	88 Claps SD Hip5	Off Off	230 227	88 Claps 88 SD	Off Off	230 228	88 Claps 99 SD	Off Off	230 107	88 Claps SD Rap	Off Off
40	F2	266	E.Tom Real	Off	236	88 Tom	Off	386	Tribe	Off	145	Tom3 Floor	Off
42	F#2	174	HH3 Open 2	1	231	88 HH Close	1	233	99 HH Close	1	183	HH Old TiteClose	1
43	G2	266	E.Tom Real	Off	236	88 Tom	Off	148	Tom Processed	Off	145	Tom3 Floor	Off
44	G#2	178	HH4 Foot	1	232	88 HH Open	1	180	HH4 Open	Off	189	HH Alpo Close	Off
45	A2	266 173	E.Tom Real	Off	236	88 Tom	Off	226	88 BD	Off	144 181	Tom3 Low	Off
46	A#2 B2	266	HH3 Open 1 E.Tom Real	1 Off	232 236	88 HH Open 88 Tom	1 Off	234 266	99 HH Open E.Tom Real	1 Off	181	HH Old Close1 Tom3 Low	1 Off
48	C3	266	E.Tom Real	Off	236	88 Tom	Off	266	E.Tom Real	Off	143	Tom3 Hi	Off
49	C#3	196	Crash 1	Off	235	88 Crash	Off	196	Crash 1	Off	196	Crash 1	Off
50	D3	266	E.Tom Real	Off	236	88 Tom	Off	266	E.Tom Real	Off	143	Tom3 Hi	Off
51	D#3	213	Ride Edge 2	Off									
52 53	E3 F3	202 214	Crash Reverse Ride Jazz	Off Off	198 214	China Ride Jazz	Off Off	202 214	Crash Reverse Ride Jazz	Off Off	202 214	Crash Reverse Ride Jazz	Off Off
54	F#3	339	Tambourine Acc2	Off	411	Noise FM Mod	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off
55	G3	201	Splash	Off	201	Splash	Off	198	China	Off	198	China	Off
56	G#3	352	Cowbell	Off	239	88 Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off
57	A3	196	Crash 1	Off									
58 59	A#3 B3	325 213	Vibraslap Ride Edge 2	Off Off	325 213	Vibraslap Ride Edge 2	Off Off	325 213	Vibraslap Ride Edge 2	Off Off	325 213	Vibraslap Ride Edge 2	Off Off
59 60	В3 С4	213	Bongo Hi Open	Off	213	88 Conga	Off	213	Bongo Hi Open	Off	213	Bongo Hi Open	Off
61	C#4	295	Bongo Lo Open	Off	237	88 Conga	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off
62	D4	290	Conga Hi Mt Slap	Off	237	88 Conga	Off	290	Conga Hi Mt Slap	Off	290	Conga Hi Mt Slap	Off
63	D#4	288	Conga Hi Open	Off	236	88 Tom	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off
64 65	E4 F4	285	Conga Lo Open	Off Off	236 334	88 Tom Timbala Hi Pim2	Off Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off
65	F4 F#4	334 329	Timbale Hi Rim2 Timbale Lo Open	Off	334 329	Timbale Hi Rim2 Timbale Lo Open	Off	334 329	Timbale Hi Rim2 Timbale Lo Open	Off Off	334 329	Timbale Hi Rim2 Timbale Lo Open	Off Off
67	G4	351	Agogo Bell	Off									
68	G#4	351	Agogo Bell	Off									
69	A4	346	Cabasa Up	Off									
70	A#4	309	Maracas Push	Off	309	Maracas Push	Off	188	HH Hip	Off	336	Tambourine Push	Off
71	B4 C5	361 361	Samba Whistle Samba Whistle	2									
72	C#5	308	Guiro Short	2	308	Guiro Short	3	308	Guiro Short	3	301	Guiro Short	2
74	D5	307	Guiro Long	3									
75	D#5	326	Claves	Off	238	88 Claves	Off	326	Claves	Off	326	Claves	Off
76	E5	327	Woodblock1	Off									
77	F5	327	Woodblock1	Off									
78 79	F#5 G5	342 343	Cuica Hi Cuica Lo	4	342 342	Cuica Hi Cuica Hi	4	366 364	Uhh Yeah!	Off Off	342 343	Cuica Hi Cuica Lo	4
80	G#5	343	Triangle Mute	4	342	Finger Cymbal	4	364	Triangle Mute	5	343	Triangle Mute	5
81	A5	340	Triangle Open	5	357	Finger Cymbal	5	340	Triangle Open	5	340	Triangle Open	5
82	A#5	347	Cabasa Down	Off	347	Cabasa Down	Off	185	HH Old Open2	Off	347	Cabasa Down	Off
83	B5	355	Sleigh Bell	Off									

			120-0-24: Electro Kit			120-0-25: Analog Kit			120-0-26: House Kit 1			120-0-27: House Kit 2	
N	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
84	C6	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off
85	C#6	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off
86	D6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6
87	D#6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6
88	E6	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off

Interview Excl Sample Excl Sample Decl				120-0-28: House Kit 3			120-0-29: House Kit 4		1	20-0-30: House Kit RX	1	1	20-0-31: House Kit R	X2
1 C+1 60 95 Solid2 p Off 60 Solid2 p Off 70 Solid2 p Off 70 Solid2 p Off 70 Solid2 p Off 70 Solid2 p Off 75 Solid2 p Solid2 p Solid2 p Solid2 p Solid2 p													Sample	
2 D+1 79 50 Somonal method OH 79 S0 Breach method OH 75 S0 Breach method Breach						-		-				-		-
3 De-1 27 50 Bransh p Off 75 50														
4 6-1 69 50 Maple2 pp Off 69 50 Maple2 pp Off 63 50 Maple1 pp Off 6 FH-1 57 50 Solid1 p Off 58 50 Solid1 p Off					1						1			
5 F-1 6.8 SD MaipleT ipp Off 6.3 SD MaipleT ipp Off 7.3 SD Provide 2 pp Off 5.3 SD Provide 2 pp Off 5.3 SD Provide 2 pp Off 7.3 SD Provide 2 pp <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th>								-	-					
6 PH-1 57 SD Solidit p Off 97 SD Solidit p Off 95 SD Solidit p Off 85 SD Popt D Off 75 SD Solidit p Off 250 SD Popt D Off 75 SD Solidit p Off 250 SD Popt D Off 75 SD Popt D 76 75 SD Popt D 75 SD Popt D 75 SD Popt D 76 75 SD Popt D 76 75														
7 6-1 5.3 5.0 Focolo2 pp Off 5.3 5.0 Focolo2 pp Off 5.3 5.0 Focolo2 pp Off 5.3 50 Off 5.3 50 Focolo2 pp Off 5.3 50													1 1 1 1	
8 64-1 5 80 Dry 1 Off 5 80 Dry 1 Off 4 8 100 A-11 23 100 101 250 101 250 101 250 101 250 101 250 101 250 100 221 853 007 111 50 101 250 100 101 250 101 250 101 250 101 250 101 250 101 250 101 250 101 250 101 250 101 250 101 250 101 250 101 250 101 250 101 350 101 350 101 350 101 350 101 350 101 350 101 350 101 350 101 350 101 350 101 350 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th>								-						-
9 A-1 34 BD Pap Kick Off 34 BD Pap Kick Off 35 BD Pap Sig Off 40 BD Derg 88 Off 11 B-1 40 BD Derg 88 Off 40 BD Derg 88 Off 111 SD Hig3 Off 122 SD Hig3 Off 123 SD Hig3 Off 124 SD Hig3														
10 Ak-1 28 95 b; Off 228 95 b; Off 111 SD Huj2 Off 228 95 b; Off 128 Divitages		-			1			-			1			
11 E-1 40 BD Deep 8B Off 24 Boom Off 224 Boom Off 228 Boom Off 101 BD Dance Off 101 BD Dance Off 101 BD House														
12 60 227 88 50 Off 227 88 50 Off 228 99 50 Off 14 D0 91 50 Amb Recole Off 91 50 Amb Recole Off 104 50 House3 Off 15 D60 31 50 Amb Recole Off 148 80 Amb Recole Off 34 80 Amb Recole Off 35 80 Amb Recole Off 35 80 Amb Recole Off 35 80 Amb Recole Off 36 80 Amb Recole Off 36 80 Amb Recole Off 36														
13 CH0 101 SD Dame OH 101 SD Dame OH 122 SD MinageS OH 14 DD 31 SD Amblexclo OH 143 SD House3 OH 144 SD House3 OH 144 SD House3 OH 144 SD House3 OH 144 SD House3 OH 145 SD House3 OH 145 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>														
14 D0 91 SD Amb Piccolo Off 91 SD Amb Piccolo Off 164 SD House3 Off 164 BD House3 Off 164 BD House3 Off 124 BD House3 Off 129 BD Techno 2 Off 120 BD Techno 2 DTechno 2 DTechno 2 DTechno 2 DTechno 2<			227			227			227			228	99 SD	-
15 DP0 36 ED Ambient Off 24 ED Hous 3 Off 24 ED Hous 3 Off 24 ED Techno 2 Off 24 ED Techno 2 Off 24 ED Techno 2 Off 26 ED Techno 2 Off 17 76 114 ED Techno 2 Off 17 76 114 Constant Off 23 ED Techno 2 Off 17 76 114 Constant 77 210 20 170 20 170 210 20 170 170 210 20 170														
16 60 14 160 171 160 121 SD Vintage Off 126 SD Tachno 2 Off 127 SD Tachno 2 Off 127 SD Tachno 2 127 128 127 128				SD Amb.Piccolo	1		SD Amb.Piccolo			SD House3	1			
17 F0 121 SD Writage4 Off 125 SD Writage4 Off 106 SD Small Off 106 SD Small Off 108 SD Small Off 108 SD Small Off 108 SD Small Off 108 SD Markage2 Off 108 SD Small DT <th></th> <th>-</th> <th></th> <th>BD Ambient</th> <th></th> <th></th> <th>BD Ambient</th> <th>-</th> <th></th> <th>BD House 3</th> <th></th> <th></th> <th></th> <th>Off</th>		-		BD Ambient			BD Ambient	-		BD House 3				Off
Tes Field Zapa Z Off T/R HH4 Coced1 1 100 HH4 Copen Off 19 660 280 Zap1 Off 270 280 Dance 2 Off 171 Side Sick Amb Off 131 Side Sick Amb Off 132 Side Sick Amb Off 235 Side Sick Amb Off 235 Side Sick Amb Off 236 Side Sick Amb Off 237 Side Sick Amb Off 236 Side Sick Amb Off 336 Side Sick Amb Side Sick Amb Side Sick Amb Side Sick A														Off
19 60 33 BD Hip 4 Off 20 BD Dance 2 Off 21 20 BD Dance 2 Off 111 Side Sick Amb Off 21 A00 122 SD VintageS Off 111 SD Sick Amb Off 111 SD Sick Amb Off 111 SD Sick Amb Off 220 SD Orch-Rall Off 220 SD Orch-Barl 7 220 SD Sorath2 7 220				SD Vintage4			SD Vintage4				Off			
20 640 285 Zap1 Off 213 Side Sick Amb Off 131 Side Sick Amb Off 132 Side Sick Amb Off 132 Dirum Sick Hit Off 132 Dirum Sick Hit Off 131 Side Sick Amb Off 23 B01 122 Dirum Sick Hit Off 132 Dirum Sick Hit Off 230 Sich Sick Amb 720 Sick Amb 720 Sick Amb 720 Sick Amb 721 Sick Amb Sick Amb <th>18</th> <th>F#0</th> <th>270</th> <th></th> <th>Off</th> <th>270</th> <th>Zap2</th> <th>Off</th> <th>176</th> <th>HH4 Closed1</th> <th>1</th> <th>180</th> <th>HH4 Open</th> <th>Off</th>	18	F#0	270		Off	270	Zap2	Off	176	HH4 Closed1	1	180	HH4 Open	Off
21 A0 122 SD Vintage5 Off 111 SD Vintage5 Off 112 Drum Sick Hit Off 122 SD Orchestra 7 220 SD Orchestra 7 221 Finger Snaps Off 271 SD Orchestra 7 221 Finger Snaps Off 270 SO Orchestra 7 272 DI Scratch 7 272 <thdi scratch<="" th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></thdi>														
122 A40 429 Mouth Harp Off 42 SD Paper Off 50 SD Ziz Ring Off 23 B0 Torksick Hit Off 132 Drum Sick Hit Off 20 SD Orchestra 7 220 SO Orchestra 7 220 SO Orchestra 7 272 SO Sorath2 7 272 SO Sorath2 7 272 D Sorath2 7 272 D Sorath2 7 272 D Sorath2 7														
23 80 132 Drum Stick, Hit Off 132 Drum Stick, Hit Off 207 Storchestra 7 220 Storachestra				SD Vintage5			SD Vintage5						SD Ringy	Off
24 C1 220 SD Orchestra 7 230 SD Orchestra 7 220 SD Orchestra 7 272 DS Orchestra 7 272 DS Orchestra 7 272 DS Scrath2	22	A#0	429	Mouth Harp	Off	429		Off	92		Off	90		Off
25 C+1 219 SD Orch. Roll 7 210 Zap2 Off 220 Control Control <thcontro< th=""> Contro <thcontro< th=""></thcontro<></thcontro<>						132	Drum Stick Hit					267		Off
26 D1 221 Finger Snaps Off 221 Finger Snaps Off 221 Finger Snaps Off 220 Zap2 Zap2 Off 220 Zap2 Zap2 <thzap2< th=""> Zap2 <thzap2< <="" th=""><th>24</th><th>C1</th><th>220</th><th>SD Orchestra</th><th>7</th><th>220</th><th>SD Orchestra</th><th>7</th><th>220</th><th>SD Orchestra</th><th>7</th><th>220</th><th>SD Orchestra</th><th>7</th></thzap2<></thzap2<>	24	C1	220	SD Orchestra	7	220	SD Orchestra	7	220	SD Orchestra	7	220	SD Orchestra	7
27 Def1 270 Zap2 Off 270 Zap2 Off 270 Zap2 Off 100 28 E1 410 Noise White Off 410 Noise White Off 100 Strath2 7 272 D) Scrath2 7	25	C#1	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	7
28 F1 410 Noise White Off 410 Noise White Off 108 SD Noise Off 29 F1 272 DJ Scratch2 7 276 Scratch2 7 276 Scratch2 7 276 Scratch2 7 276 Scratch2 Scratch2	26	D1	221	Finger Snaps	Off	221	Finger Snaps	Off	221	Finger Snaps	Off	221	Finger Snaps	Off
29 F1 272 Di Scratch2 7 31 61 132 Drum Stick Hit Off 269 Zap1 Off 79 Zap1 Off 73 Zap1 Off 23 ED Lous 2 Off 73 ED Lous 2 Off 30 Da Lous 2 Off 30 Da Lous 2 Off 30 Da Lous 2 Off 30 Da Lous 2 Da Lous 2	27	D#1	270	Zap2	Off	270	Zap2	Off	270	Zap2	Off	270	Zap2	Off
30 F#1 212 D Scratch2 7 213 Scratch2 7 213 Scratch2 213 Scratch2 7 213 Scratch2 7 213 Scratch2 213 Scratch2 213	28	E1	410	Noise White	Off	410	Noise White	Off	410	Noise White	Off	108	SD Noise	Off
31 61 132 Drum Stick Hit Off 136 34 A1 336 Click Off 376 Click Off 376 Click Off 376 Click Off 340 Triangle Open Off 340 Triangle O	29	F1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7
32 6H1 269 Zap1 Off 269 Zap1 Off 269 Zap1 Off 366 Click Off 376 Click Off 376 Click Off 376 Click Off 340 Triangle Open Off 350 Triangle Open Off 350 Triangle Open Off 350 Triangle Open Off 350 Triangle Open Off <	30	F#1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7
33 A1 376 Cick Off 39 BD Pop 99 Off 32 BD House 1 Off 39 BD Pop 99 Off 36 C.2 25 BD Dance 99 Off 131 Side Sick Amb Off 23 BD House 2 Off 225 B8 Rim Shot Off 37 C#2 268 Rim House 2 Off 230 B8 Claps Off 230 B8 House 2 Off 235 DHouse 2 Off 235 DHouse 2 Off 23 DHouse 2 Claps Diff 24 Claps Diff 24 Claps Diff 24 Diff 25 Diff 25 <th>31</th> <th>G1</th> <th>132</th> <th>Drum Stick Hit</th> <th>Off</th>	31	G1	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off
33 Af1 376 Click Off 376 Click Off 376 Click Off 376 Click Off 340 Triangle Open	32	G#1	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off
34 AFI 340 Triangle Open Off 340 Triangle Open Off 340 Triangle Open Off 32 Bit higs Off 33 Side State Off 32 Side State Off 32 Side State Off 32 Side State Off 33 Side State Off 33 Side State Off 33 Side State Off 33 Side State Off 34 Side State								Off						
35 B1 39 BD-Pop 99 Off 32 BD Hig 3 Off 22 BD House 2 Off 24 BD House 3 Off 24 BD House 3 Off 37 Cf2 258 Rim House2 Off 131 Side Stick Amb Off 228 BB Rim Shot Off 34 BD House 3 Off 328 BD House 2 Off 120 SD House 1 Off 229 B8 Rim Shot Off 39 D92 230 B8 Claps Off 230 B8 Claps Off 230 B8 Claps Off 230 B8 Claps Off 246 E.Tom Real Off 145 Tom3 Floor Off 143 Tom3 Floor Off 143 Tom2 Hi Off 141														
36 C2 35 BD Dance 99 Off 16 BD Gated Off 28 BD House 1 Off 24 BD House 3 Off 37 C#2 268 Rim House2 Off 131 Side Stick Amb Off 208 BS Rim Shot Off 38 D2 98 SD Yowie Off 230 BS Claps Off 230 SD House 1 Off 140 5D House 4 Off 141 Toma 71 143 5D Clostof Off 141 Toma 71 141 161 1162 161 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>														
37 C#2 268 Rim House2 Off 131 Side Stick Amb Off 268 Rim House2 Off 122 38 Bins Shot Off 38 DJ2 230 BS Claps Off 230 SD House1 Off 103 SD House2 Off 102 SD House1 Off 40 E2 115 SD Hip6 Off 108 SD Noise Off 230 SB Claps Off 105 SD House1 Off 41 F72 231 SB HH Close 1 231 SB HH Close 1 133 SG Cast Tom3 Floor Off 445 43 G2 266 E.Tom Real Off 141 Tom2 Hi														
38 D2 98 5D Yowie Off 82 5D Pry 1 Off 233 5D House2 Off 102 SD House1 Off 39 DH2 230 88 Claps Off 235 SD chost 1 Off 145 Tom3 Floor Off 145 Tom3 Floor Off 145 Tom3 Floor Off 144 Tom3 Floor Off 141 Tom3 Floor Off 141 Tom3 Floor Off 141 Tom2 Hi Off 140											1			
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40 E2 115 SD Hip6 Off 108 SD Noise Off 147 SD Ghost f Off 105 SD House4 Off 41 F2 266 E.Tom Real Off 266 E.Tom Real Off 145 Tom3 Floor Off 145 Tom3 Floor Off 43 G2 266 E.Tom Real Off 213 88 HH Close 1 233 BH H Hold Close 1 183 HH Old Tom3 Floor Off 141 Tom2 Hi Off<														
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44 6#2 231 88 HH Close 1 232 88 HH Open Off 181 HH Old Close1 1 187 HH House Open2 1 45 A2 266 E.Tom Real Off 282 Real Off 141 Tom2 Hi Off 141 Tom2 Hi Off 46 A32 288 HH Open 1 186 HH House Open1 1 186 HH House Open2 1 141 Tom2 Hi Off 141 Tom2 Hi Off 47 82 266 E.Tom Real Off 235 88 Crash Off 141 Tom2 Hi Off 141 Tom2 Hi Off 49 C.#3 195 Crash Reverse Off 210 Ride Bazz Off 210 Ride Bazz Off 214 Rid											1			
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47 B2 266 E.Tom Real Off 266 E.Tom Real Off 141 Tom2 Hi														
48 C3 266 E.Tom Real Off 266 E.Tom Real Off 141 Tom2 Hi														
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50 D3 266 E.Tom Real Off 266 E.Tom Real Off 141 Tom2 Hi Off 51 D#3 213 Ride Edge 2 Off 205 Ride Dance 99 Off 210 Ride Brush Off 210 Ride Brush Off 210 Ride Brush Off 202 Crash Reverse Off 333 Tambourine Acc2 Off 54 F#3 352 Cowbell Off 201 Splash								-			1			-
51 D#3 213 Ride Edge 2 Off 205 Ride Dance 99 Off 210 Ride Brush Off 210 Ride Brush Off 210 Ride Brush Off 202 Crash Reverse Off 202 Crash Reverse Off 202 Crash Reverse Off 214 Ride Jazz Off 210 Ride State 210 Corash 1	-													
52 E3 202 Crash Reverse Off 203 Ride Jazz Off 214 Ride Jazz Off 216 Crash 1 Off 213 Ride Jazz Off 201 Splash Off <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>														
53 F3 214 Ride Jazz Off 339 Tambourine Acc2 Off 55 G3 201 Splash Off 201 Splash		1												
54 F#3 339 Tambourine Acc2 Off 338 Tambourine Acc1 Off 336 Tambourine Push Off 339 Tambourine Acc2 Off 55 G3 201 Splash Off 50 G#3 352 Cowbell Off 223 88 Cowbell Off 352 Cowbell Off 352 Cowbell Off 352 Cowbell Off 352 Cowbell Off 352 Cowbell Off 352 Cowbell Off 352 Cowbell Off 356 Tribe Off 196 Crash 1 Off 196 Crash 1 Off 263 Perc. Ahh Off 263 Perc. Ahh Off 266 Perc. Ahh Off 261 Perc. Ahh Off 290 Conga Hi Mt Slap </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>														
55 G3 201 Splash Off 201 Splash Off 201 Splash Off 201 Splash Off 56 G#3 352 Cowbell Off 239 88 Cowbell Off 352 Cowbell Off 363 Pric. Ahh Off 263 Perc. Ahh <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>														
56 G#3 352 Cowbell Off 239 88 Cowbell Off 352 Cowbell Off 361 Combel Off 366 Tibe														
57 A3 196 Crash 1 Off 196 Crash 1 Off 196 Crash 1 Off 196 Crash 1 Off 58 A#3 325 Vibraslap Off 325 Vibraslap Off 386 Tribe Off 263 Perc. Ahh Off 264 263														
58 A#3 325 Vibraslap Off 325 Vibraslap Off 386 Tribe Off 263 Perc. Ahh Off 266 Bongo Lo Slap Off 61 C44 295 Bongo Lo Open Off 290 Conga Hi Mt Slap Off 290 Conga Hi Mt Slap Off 290 Conga Lo Open Off 285 Conga Lo Open Off 285 Conga Lo Open Off														
59 B3 213 Ride Edge 2 Off 213 Ride Edge 2 Off 213 Ride Edge 2 Off 263 Perc. Ahh Off 263 Perc. Ahh Off 60 C4 298 Bongo Hi Open Off 298 Bongo Hi Open Off 298 Bongo Lo Open Off 298 Bongo Lo Open Off 295 Bongo Lo Open Off 290 Conga Hi Mt Slap Off 290 Conga Lo Open Off 290 Conga Lo Open Off 297 Bongo Lo Open Off 2														
60 C4 298 Bongo Hi Open Off 298 Bongo Lo Open Off 295 Conga Hi Mt Slap Off 290 Conga Lo Open Off 295 Conga Lo Open Off 285 Conga Lo Open Off <														
61C#4295Bongo Lo OpenOff295Bongo Lo OpenOff295Bongo Lo OpenOff295Bongo Lo OpenOff62D4290Conga Hi Mt SlapOff290Conga Hi Mt SlapOff290Conga Hi Mt SlapOff290Conga Hi Mt SlapOff0ff290Conga Hi Mt SlapOff290Conga Hi Mt SlapOff297Bongo Lo OpenOff297Bongo Lo OpenOff285Conga Lo OpenOff285Conga Lo OpenOff285Conga Lo OpenOff329Timbale Hi Rim2Off329 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>														
62 D4 290 Conga Hi Mt Slap Off 63 D#4 288 Conga Hi Mt Slap Off 288 Conga Hi Mt Slap Off 290 Conga Hi Mt Slap Off 64 E4 285 Conga Lo Open Off 334 Timbale Hi Rim2 Off 334 Timbale Hi Rim2 Off 334 Timbale Lo Open Off 332 Timbale Lo Open Off 334 Timbale Lo Open Off 334 Timbale Lo Open Off 334 Agogo Bell Off 351 Agogo Be														
63 D#4 288 Conga Hi Open Off 297 Bongo Lo Stick Off 64 E4 285 Conga Lo Open Off 334 Timbale Hi Rim2 Off 334 Timbale Hi Rim2 Off 334 Timbale Lo Open Off 334 Timbale Lo Open Off 329 Timbale Lo Open Off 351 Agogo Bell Off 351 Agogo Be														
64 E4 285 Conga Lo Open Off 334 Timbale Hi Rim2 Off 334 Timbale Hi Rim2 Off 334 Timbale Hi Rim2 Off 334 Timbale Lo Open Off 334 Timbale Lo Open Off 329 Timbale Lo Open Off 320 Timbale Lo Open				· ·			3 1							
65F4334Timbale Hi Rim2Off334Timbale Hi Rim2Off334Timbale Hi Rim2Off334Timbale Hi Rim2Off66F#4329Timbale Lo OpenOff329Timbale Lo OpenOff329Timbale Lo OpenOff67G4351Agogo BellOff351Agogo BellOff351Agogo BellOff68G#4351Agogo BellOff351Agogo BellOff351Agogo BellOff69A4346Cabasa UpOff346Cabasa UpOff346Cabasa UpOff70A#4188HH HipOff351Samba Whistle2361Samba Whistle2361Samba Whistle271B4361Samba Whistle2361Samba Whistle2361Samba Whistle2														
66F#4329Timbale Lo OpenOff329Timbale Lo OpenOff329Timbale Lo OpenOff67G4351Agogo BellOff351Agogo BellOff351Agogo BellOff68G#4351Agogo BellOff351Agogo BellOff351Agogo BellOff69A4346Cabasa UpOff346Cabasa UpOff346Cabasa UpOff70A#4188HH HipOff336Tambourine PushOff309Maracas PushOff309Maracas PushOff71B4361Samba Whistle2361Samba Whistle2361Samba Whistle2				5			3 1							
67 G4 351 Agogo Bell Off 351 Agogo Bell Off 351 Agogo Bell Off 351 Agogo Bell Off 68 G#4 351 Agogo Bell Off 351 Agogo Bell Off 351 Agogo Bell Off 69 A4 346 Cabasa Up Off 0ff 361 Samba Whistle 0ff 361 Samba Whistle 2 361														
68 G#4 351 Agogo Bell Off 361 Cabasa Up Off 346 Cabasa Up Off 346 Cabasa Up Off 346 Cabasa Up Off 346 Cabasa Up Off 370 A#4 188 HH Hip Off 336 Tambourine Push Off 309 Maracas Push Off 309 Maracas Push Off 71 B4 361 Samba Whistle 2 361 Samba Whistle 2<														
69 A4 346 Cabasa Up Off														
70 A#4 188 HH Hip Off 336 Tambourine Push Off 309 Maracas Push							0 0							
71 B4 361 Samba Whistle 2 361 Samba Whistle 2 361 Samba Whistle 2														
72 C5 361 Samba Whistle 2 361 Samba Whistle 2 361 Samba Whistle 2														
	72	C5	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2

			120-0-28: House Kit 3			120-0-29: House Kit 4		1	20-0-30: House Kit RX	1	1	120-0-31: House Kit RX	2
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
73	C#5	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3
74	D5	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3
75	D#5	326	Claves	Off	326	Claves	Off	326	Claves	Off	326	Claves	Off
76	E5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
77	F5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
78	F#5	342	Cuica Hi	Off	342	Cuica Hi	4	261	Syn. FX4	4	261	Syn. FX4	4
79	G5	342	Cuica Hi	Off	342	Cuica Hi	4	262	Syn. FX5	4	262	Syn. FX5	4
80	G#5	360	Flexatone	5	360	Flexatone	5	341	Triangle Mute	5	341	Triangle Mute	5
81	A5	360	Flexatone	5	360	Flexatone	5	340	Triangle Open	5	340	Triangle Open	5
82	A#5	185	HH Old Open2	Off	347	Cabasa Down	Off	211	Ride Rivet	Off	349	Caxixi Hard	Off
83	B5	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off
84	C6	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off
85	C#6	305	Castanet Single	Off	305	Castanet Single	Off	255	Syn. Castanet	Off	255	Syn. Castanet	Off
86	D6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6
87	D#6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6
88	E6	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off

		120-	0-32 (36~39): Jazz Kit F	RX1		120-0-33: Jazz Kit			120-0-34: Jazz Kit RX2			120-0-35: Jazz Kit RX3	
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
0	C-1	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off
1	C#-1	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off
2	D-1	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off
3	D#-1	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off
4	E-1	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off
5	F-1	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off
6	F#-1	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off
7	G-1	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off
8	G#-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
9	A-1	25	BD House 4	Off	25	BD House 4	Off	25	BD House 4	Off	25	BD House 4	Off
10	A#-1	228	99 SD	Off	228	99 SD	Off	228	99 SD	Off	228	99 SD	Off
11	B-1	40	BD Deep 88	Off	40	BD Deep 88	Off	40	BD Deep 88	Off	40	BD Deep 88	Off
12	C0	227	88 SD	Off	227	88 SD	Off	227	88 SD	Off	227	88 SD	Off
13	C#0		SD Solid2 p~f (3)	Off	90	SD Jazz Ring	Off		SD Solid2 p~f (3)	Off	67	SD Maple1 f	Off
14	D0		SD Solid1 p~f (3)	Off	91	SD Amb.Piccolo	Off		SD Solid1 p~f (3)	Off	66	SD Maple1 mf	Off
15	D#0	10	BD Jazz (2)	Off	38	BD Amb.Rocker	Off	10	BD Jazz (2)	Off	38	BD Amb.Rocker	Off
16	EO	7	BD Dry 3	Off	11	BD Pillow	Off	7	BD Dry 3	Off	11	BD Pillow	Off
17	FO		SD Wood 1 p~f (3)	Off	88	SD Full Room	Off		SD Piccolo2 pp~f (4)	Off	67	SD Maple1 f	Off
17	F#0		HH2 Closed pp~ff (6)	Off	171	HH3 Closed2	1		HH2 Closed pp~ff (6)	Off	171	HH3 Closed2	1
10	G0	8	BD Normal	Off	5	BD Dry 1	Off	8	BD Normal	Off	5	BD Dry 1	Off
20	G#0	129	Rim Shot f	Off	131	Side Stick Amb	Off	129	Rim Shot f	Off	131	Side Stick Amb	Off
20	A0	69-74	SD Maple2 pp~ff (6)	Off	83	SD Dry 2	Off	69-74	SD Maple2 pp~ff (6)	Off	51	SD Piccolo1 mf	Off
21	A0 A#0		SD Maple1 pp~ff (6)	Off	93	SD Brush Hit	Off		SD Maple1 pp~ff (6)	Off	93	SD Brush Hit	Off
23	B0	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off
23	<u>Б0</u> С1		SD Brass2 p~f (3)	Off	220	SD Orchestra	7		SD Brass2 p~f - Solid1 f (4)	Off	76	SD Brass1 mf	7
24	C#1	81	SD Roll	7	219	SD Orch. Roll	7	81	SD Roll	7	81	SD Roll	7
25	D1	221		/ Off	219	Finger Snaps	, Off	221		, Off	221		/ Off
20	D#1	270	Finger Snaps	Off	270	<u> </u>	Off	270	Finger Snaps	Off	270	Finger Snaps	Off
			Zap2			Zap2			Zap2			Zap2	
28 29	E1 F1	410 272	Noise White DJ Scratch2	Off	410	Noise White	Off	410 272	Noise White DJ Scratch2	Off 7	410	Noise White DJ Scratch2	Off
				7	272	DJ Scratch2	7	272		7	272		7
30	F#1	272	DJ Scratch2	7	272	DJ Scratch2	7		DJ Scratch2	7 Off	272	DJ Scratch2	
31	G1	132	Drum Stick Hit	Off Off	132	Drum Stick Hit	Off	132	Drum Stick Hit		132	Drum Stick Hit	Off
32	G#1	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off
33	A1	376	Click	Off	376	Click	Off	376	Click	Off	376	Click	Off
34	A#1	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off
35	B1	3~4	BD Acoust.2 mf~f (3)	Off	10	BD Jazz	Off	3~4	BD Acoust.2 mf~f (3)	Off	10	BD Jazz	Off
36	C2	0~2	BD Acoust.1 p~f (4)	Off	9	BD SoftRoom	Off		BD Acoust.1 p~f (4)	Off	3~4	BD Acoust.2 mf~f (3)	Off
37	C#2		Rim Shot p-f (2)	Off	131	Side Stick Amb	Off		Rim Shot p-f (2)	Off	131	Side Stick Amb	Off
38	D2		SD Piccolo2 pp~f (4)	Off	82	SD Dry 1	Off		SD Piccolo2 pp~f (4)	Off	74	SD Maple2 ff	Off
39	D#2	230	88 Claps	Off	230	88 Claps	Off	230	88 Claps	Off	230	88 Claps	Off
40	E2		SD Piccolo1 pp~f (4)	Off	90	SD Jazz Ring	Off		SD Piccolo1 pp~f (4)	Off	64	SD Maple1 p	Off
41	F2		Tom1 Floor p-f (2)	Off	150	Tom Jazz Floor	Off		Tom1 Floor p-f (2)	Off	150	Tom Jazz Floor	Off
42	F#2		HH2 Closed pp~ff (6)	1	176	HH4 Closed1	1		HH2 Closed pp~ff (6)	1		HH2 Closed pp~ff (6)	1
43	G2		Tom1 Low p-f (2)	Off	150	Tom Jazz Floor	Off		Tom1 Low p-f (2)	Off	150	Tom Jazz Floor	Off
44	G#2		HH2 Foot p-f (2)	1	178	HH4 Foot	1		HH2 Foot p-f (2)	1	166-167	HH2 Foot p-f (2)	1
45	A2		Tom1 Mid p-f (2)	Off	149	Tom Jazz Hi	Off		Tom1 Mid p-f (2)	Off	149	Tom Jazz Hi	Off
46	A#2		HH2 Open p-f (2)	1	175	HH3 Sizzle	1		HH2 Open p-f (2)	1		HH2 Open p-f (2)	1
47	B2		Tom1 Mid p-f (2)	Off	149	Tom Jazz Hi	Off		Tom1 Mid p-f (2)	Off	149	Tom Jazz Hi	Off
48	C3		Tom1 Hi p-f (2)	Off	149	Tom Jazz Hi	Off		Tom1 Hi p-f (2)	Off	149	Tom Jazz Hi	Off
49	C#3		Crash 17'edge2 (2)	Off		Crash 1	Off		Crash 17'edge2 (2)	Off	193	Crash 17'edge2 (2)	Off
50	D3		Tom1 Hi p-f (2)	Off	149	Tom Jazz Hi	Off		Tom1 Hi p-f (2)	Off	149	Tom Jazz Hi	Off
51	D#3	207	Ride 20' mp2 (2)	Off	213	Ride Edge 2	Off		Ride 20' mp2-mf2 (2)	Off		Ride 20' mp2-mf2 (2)	
52	E3	198	China	Off	198	China	Off	198	China	Off	198	China	Off
53	F3	215	Ride Cup	Off	215	Ride Cup	Off		Ride Jazz-Cup (2)	Off	215	Ride Cup	Off
54	F#3	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off
55	G3	199	Splash 8'edge1	Off	197	Crash 2	Off	199	Splash 8'edge1	Off	197	Crash 2	Off
56	G#3	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off
57	A3	191	Crash 15'edge2 (2)	Off	196	Crash 1	Off	191	Crash 15'edge2 (2)	Off	191	Crash 15'edge2 (2)	Off
58	A#3	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off
59	B3	206-208	Ride 20' mp1-mf1 (2)	Off	212	Ride Edge 1	Off	206-208	Ride 20' mp1-mf1 (2)	Off	212	Ride Edge 1	Off
60	C4	298	Bongo Hi Open	Off	298	Bongo Hi Open	Off	298	Bongo Hi Open	Off	298	Bongo Hi Open	Off
61	C#4	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off
			5						5			3	

		120	-0-32 (36~39): Jazz Kit	: RX1		120-0-33: Jazz Kit			120-0-34: Jazz Kit RX2			120-0-35: Jazz Kit RX3	3
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
62	D4	292	Conga Hi Slap2	Off	292	Conga Hi Slap2	Off	292	Conga Hi Slap2	Off	292	Conga Hi Slap2	Off
63	D#4	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off
64	E4	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off
65	F4	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off
66	F#4	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off
67	G4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
68	G#4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
69	A4	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off
70	A#4	309	Maracas Push	Off	309	Maracas Push	Off	309	Maracas Push	Off	309	Maracas Push	Off
71	B4	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
72	C5	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
73	C#5	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3
74	D5	307	Guiro Long	З	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3
75	D#5	326	Claves	Off	326	Claves	Off	326	Claves	Off	326	Claves	Off
76	E5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
77	F5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
78	F#5	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4
79	G5	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4
80	G#5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5
81	A5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5
82	A#5	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off
83	B5	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off
84	C6	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off
85	C#6	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off
86	D6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6
87	D#6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6
88	E6	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off

		120	-0-40 (43~47): Brush	Kit 1	1	20-0-41: Brush Kit 2 VS	5		120-0-42: Brush Kit RX		120-0-	-48 (49, 52~55): Orch	estra Kit
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
0	C-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
1	C#-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
2	D-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
3	D#-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
4	E-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
5	F-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
6	F#-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
7	G-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
8	G#-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
9	A-1	145	Tom3 Floor	Off	145	Tom3 Floor	Off	145	Tom3 Floor	Off	5	BD Dry 1	Off
10	A#-1	145	Tom3 Floor	Off	145	Tom3 Floor	Off	145	Tom3 Floor	Off	5	BD Dry 1	Off
11	B-1	145	Tom3 Floor	Off	145	Tom3 Floor	Off	145	Tom3 Floor	Off	5	BD Dry 1	Off
12	C0	144	Tom3 Low	Off	144	Tom3 Low	Off	144	Tom3 Low	Off	5	BD Dry 1	Off
13	C#0	143	Tom3 Hi	Off	143	Tom3 Hi	Off	143	Tom3 Hi	Off	5	BD Dry 1	Off
14	D0	83	SD Dry 2	Off	83	SD Dry 2	Off	83	SD Dry 2	Off	5	BD Dry 1	Off
15	D#0	10	BD Jazz	Off	10	BD Jazz	Off	10	BD Jazz	Off	5	BD Dry 1	Off
16	EO	11	BD Pillow	Off	11	BD Pillow	Off	11	BD Pillow	Off	5	BD Dry 1	Off
17	FO	221	Finger Snaps	Off	221	Finger Snaps	Off		Finger Snaps	Off	5	BD Dry 1	Off
18	F#0	170	HH3 Closed1	1	170	HH3 Closed1	1	170	HH3 Closed1	Off	5	BD Dry 1	Off
19	GO	7	BD Dry 3	Off	7	BD Dry 3	Off	7	BD Dry 3	Off	5	BD Dry 1	Off
20	G#0	130	Side Stick Dry	Off	130	Side Stick Dry	Off	130	Side Stick Dry	Off	5	BD Dry 1	Off
21	A0	94	SD Brush Tap1	7	94	SD Brush Tap1	7	94	SD Brush Tap1	7	5	BD Dry 1	Off
22	A#0	94	SD Brush Tap1	7	94	SD Brush Tap1	7	94	SD Brush Tap1	7	5	BD Dry 1	Off
23	B0	132	Drum Stick Hit	Off	132	Drum Stick Hit	, Off	132	Drum Stick Hit	, Off	5	BD Dry 1	Off
24	C1	220	SD Orchestra	7	220	SD Orchestra	7	220	SD Orchestra	7	220	SD Orchestra	7
25	C#1	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	7
26	D1	213	Finger Snaps	Off	213	Finger Snaps	, Off	213	Finger Snaps	, Off	213	Finger Snaps	Off
27	D#1	270	Zap2	Off	270	Zap2	Off	270	Zap2	Off	170	HH3 Closed1	Off
27	E1	410	Noise White	Off	410	Noise White	Off	410	Noise White	Off	170	HH3 Foot	Off
20	F1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7	172	HH3 Open 1	7
30	F#1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7	212	Ride Edge 1	Off
31	G1	132	Drum Stick Hit	Off	132	Drum Stick Hit	, Off	132	Drum Stick Hit	, Off	132	Drum Stick Hit	Off
31	G#1	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off
33	A1	376	Click	Off	376	Click	Off	376	Click	Off	376	Click	Off
34	A#1	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off
34	B1	11	BD Pillow	Off	10	BD Jazz	Off	10	BD Jazz	Off	9	BD SoftRoom	Off
35	БТ С2	10	BD Jazz	Off	9-8	BD SoftRoom-Normal (2)	Off	9-8	BD SoftRoom-Normal (2)	Off	216	BD SoftRoom BD Orchestra	Off
30	C#2	131	Side Stick Amb	Off	94	SD Brush Tap1	Off	9-8	SD Brush Tap1	Off	131	Side Stick Amb	Off
37	D2	94	SD Brush Tap1	Off	95-94	SD Brush Tap2-1 (2)	Off	94	SD Brush Tap1	Off	220	SD Orchestra	Off
39	D2 D#2	94	SD Brush Hit	Off	93-94	SD Brush Hit-Jazz Ring (2)	Off		SD Brush Hit-Solid1 f (2)	Off	305	Castanet Single	Off
40	E2	95	SD Brush Swirl	Off	93-90 96	SD Brush Swirl (2)	Off	93-39	SD Brush Swirl (2)	Off	220	SD Orchestra	Off
40	F2	151	Tom Brush Hi	Off	151	Tom Brush Hi	Off	151	Tom Brush Hi	Off	220	Timpani	Off
41	FZ F#2	174	HH3 Open 2	1	174	HH3 Open 2	1		HH2 Closed pp~ff (6)	0π 1	218	Timpani	Off
42	G2	174	Tom Brush Hi	Off	174	Tom Brush Hi	Off	151	Tom Brush Hi	Off	218	Timpani	Off
43	G2 G#2	178	HH4 Foot	1	178	HH4 Foot	1		HH2 Foot p-f (2)	1	218	Timpani	Off
44	G#2 A2	178	Tom Brush Hi	Off	178	Tom Brush Hi	Off	100-707	Tom Brush Hi	Off	218	Timpani	Off
45	A2 A#2	179	HH4 FootOpen	1	179	HH4 FootOpen	1		HH2 Open p-f (2)	1	218	Timpani	Off
40	A#Z B2	1/9	Tom Brush Hi	Off	1/9	Tom Brush Hi	Off	151	Tom Brush Hi	Off	218	Timpani	Off
47	62 C3	151	Tom Brush Hi	Off	151	Tom Brush Hi	Off	151	Tom Brush Hi	Off	218	Timpani	Off
48	C#3	196	Crash 1	Off	196	Crash 1	Off	193		Off	218	Timpani	Off
49 50	D3	196	Tom Brush Hi	Off	196	Tom Brush Hi	Off	193	Crash 17'edge2 (2) Tom Brush Hi	Off	218	Timpani	Off
50	دں	151			151			151		UII	210	mipani	

		120)-0-40 (43~47): Brush I	Kit 1	1	120-0-41: Brush Kit 2 V	'S		120-0-42: Brush Kit R)	(120-0	-48 (49, 52~55): Orche	stra Kit
No	te		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
51	D#3	212	Ride Edge 1	Off	212	Ride Edge 1	Off	210	Ride Brush (2)	Off	218	Timpani	Off
52	E3	198	China	Off	198	China	Off	198	China	Off	218	Timpani	Off
53	F3	214	Ride Jazz	Off	214	Ride Jazz	Off	214	Ride Jazz	Off	218	Timpani	Off
54	F#3	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off
55	G3	201	Splash	Off	201	Splash	Off	197	Crash 2	Off	201	Splash	Off
56	G#3	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off
57	A3	196	Crash 1	Off	196	Crash 1	Off	191	Crash 15'edge2 (2)	Off	196	Crash 1	Off
58	A#3	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off
59	B3	213	Ride Edge 2	Off	213	Ride Edge 2	Off	211	Ride Rivet (2)	Off	217	Orchestra Cymbal	Off
60	C4	298	Bongo Hi Open	Off	298	Bongo Hi Open	Off	298	Bongo Hi Open	Off	298	Bongo Hi Open	Off
61	C#4	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off
62	D4	290	Conga Hi Mt Slap	Off	290	Conga Hi Mt Slap	Off	290	Conga Hi Mt Slap	Off	290	Conga Hi Mt Slap	Off
63	D#4	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off
64	E4	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off
65	F4	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off
66	F#4	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off
67	G4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
68	G#4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
69	A4	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off
70	A#4	309	Maracas Push	Off	309	Maracas Push	Off	309	Maracas Push	Off	309	Maracas Push	Off
71	B4	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
72	C5	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
73	C#5	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3
74	D5	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3
75	D#5	326	Claves	Off	326	Claves	Off	326	Claves	Off	326	Claves	Off
76	E5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
77	F5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off
78	F#5	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4
79	G5	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4
80	G#5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5
81	A5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5
82	A#5	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off
83	B5	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off
84	C6	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off
85	C#6	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off
86	D6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6
87	D#6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6
88	E6	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off	370	Stadium	Off

		12	20-0-50: Bdrum & Sdr	rum	120	0-0-51 (116): Arabian	Kit 1	1	20-0-56 (57~63): SFX	(Kit	120-	0-64 (68~71): Percussion	n Kit
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
0	C-1	386	Tribe	Off	45	SD Wood 2 pp	Off				5	BD Dry 1	Off
1	C#-1	269	Zap1	Off	60	SD Solid2 p	Off				5	BD Dry 1	Off
2	D-1	236	88 Tom	Off	79	SD Brass2 mf	Off				5	BD Dry 1	Off
3	D#-1	226	88 BD	Off	75	SD Brass1 p	Off				5	BD Dry 1	Off
4	E-1	226	88 BD	Off	69	SD Maple2 pp	Off				5	BD Dry 1	Off
5	F-1	33	BD Hip 4	Off	63	SD Maple1 pp	Off				5	BD Dry 1	Off
6	F#-1	34	BD Pop Kick	Off	57	SD Solid1 p	Off				5	BD Dry 1	Off
7	G-1	30	BD Hip 1	Off	53	SD Piccolo2 pp	Off				5	BD Dry 1	Off
8	G#-1	26	BD House 5	Off	5	BD Dry 1	Off				5	BD Dry 1	Off
9	A-1	39	BD Pop 99	Off	25	BD House 4	Off				5	BD Dry 1	Off
10	A#-1	226	88 BD	Off	228	99 SD	Off				5	BD Dry 1	Off
11	B-1	265	E.Tom FM	Off	226	88 BD	Off				5	BD Dry 1	Off
12	C0	39	BD Pop 99	Off	227	88 SD	Off				5	BD Dry 1	Off
13	C#0	38	BD Amb.Rocker	Off	88	SD Full Room	Off				5	BD Dry 1	Off
14	D0	36	BD Ambient	Off	99	SD Processed	1				308	Guiro Short	Off
15	D#0	35	BD Dance 99	Off	5	BD Dry 1	Off				336	Tambourine Push	Off
16	E0	34	BD Pop Kick	Off	17	BD Tight	Off				337	Tambourine Pull	Off
17	F0	33	BD Hip 4	Off	82	SD Dry 1	Off				338	Tambourine Acc1	Off
18	F#0	32	BD Hip 3	Off	171	HH3 Closed2	1				338	Tambourine Acc1	Off
19	G0	30	BD Hip 1	Off	7	BD Dry 3	Off				339	Tambourine Acc2	Off
20	G#0	26	BD House 5	Off	131	Side Stick Amb	Off				339	Tambourine Acc2 (2)	Off
21	A0	21	BD Dance 3	Off	132	Drum Stick Hit	Off				336	Tambourine Push	Off
22	A#0	20	BD Dance 2	Off	412	Tubular	Off				339	Tambourine Acc2 (2)	Off
23	BO	18	BD Squash	Off	352	Cowbell	Off				446	Rek Jingle	Off
24	C1	41	BD Klanger	Off	352	Cowbell	Off	5	BD Dry 1	Off	360	Flexatone	Off
25	C#1	40	BD Deep 88	Off	219	SD Orch. Roll	Off	5	BD Dry 1	Off	357	Finger Cymbal	Off
26	D1	40	BD Deep 88	Off	221	Finger Snaps	Off	5	BD Dry 1	Off	324	Tsuzumi	Off
27	D#1	226	88 BD	Off	270	Zap2	Off	425	Amp Noise	Off	299	Bongo Hi Slap	Off
28	E1	17	BD Tight	Off	171	HH3 Closed2	Off	362	Chinese Gong	Off	300	Bongo Hi Stick1	Off
29	F1	40	BD Deep 88	Off	272	DJ Scratch2	Off	280	DJ BD Rub	Off	297	Bongo Lo Stick	Off
30	F#1	25	BD House 4	Off	272	DJ Scratch2	Off	275	DJ Scratch5	Off	338	Tambourine Acc1	Off
31	G1	19	BD Dance 1	Off	132	Drum Stick Hit	Off	281	DJ SD Rub	Off	351	Agogo Bell	Off
32	G#1	21	BD Dance 3	Off	292	Conga Hi Slap2	Off	272	DJ Scratch2	Off	402	Wind	Off
33	A1	31	BD Hip 2	Off	376	Click	Off	415	Gtr Cut Noise1	Off	351	Agogo Bell	Off
34	A#1	37	BD Amb.Crackle	Off	376	Click	Off	416	Gtr Cut Noise2	Off	301	Bongo Hi Stick2	Off
35	B1	40	BD Deep 88	Off	7	BD Dry 3	Off	421	E.Gtr Pick1	Off	327	Woodblock1	Off
36	C2	25	BD House 4	Off	25	BD House 4	Off	423	Gtr Scratch1	Off	326	Claves	Off
37	C#2	34	BD Pop Kick	Off	130	Side Stick Dry	Off	419	Dist. Slide1	Off	328	Woodblock2	Off
38	D2	17	BD Tight	Off	84	SD Dry 3	Off	420	Dist. Slide2	Off	352	Cowbell	Off
39	D#2	6	BD Dry 2	Off	464	Alkis	Off	270	Zap2	Off	327	Woodblock1	Off

		1	20-0-50: Bdrum & Sdr	um	120	-0-51 (116): Arabian k	(it 1	1	20-0-56 (57~63): SFX	Kit	120-0)-64 (68~71): Percussi	ion Kit
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
40	E2	7	BD Dry 3	Off	124	SD AmbiHop	Off	396	Gun Shot1	Off	306	Castanet Double	Off
41	F2	12	BD Woofer	Off	145	Tom3 Floor	Off	271	DJ Scratch1	7	311	Baya Open	Off
42	F#2	8	BD Normal	Off	172	HH3 Foot	1	272	DJ Scratch2	7	344	Shaker1	Off
43	G2	5	BD Dry 1	Off	145	Tom3 Floor	Off	132	Drum Stick Hit	Off	313	Baya Mute1	Off
44	G#2 A2	15 8	BD Tubby BD Normal	Off Off	178 144	HH4 Foot Tom3 Low	1 Off	270 376	Zap2 Click	Off Off	309 311	Maracas Push Baya Open	Off Off
45	A#2	5	BD Dry 1	Off	173	HH3 Open 1	1	351	Agogo Bell	Off	346	Cabasa Up	Off
47	B2	8	BD Normal	Off	144	Tom3 Low	Off	418	Fret Noise	Off	317	Tabla Open	Off
48	C3	11	BD Pillow	Off	143	Tom3 Hi	Off	415	Gtr Cut Noise1	Off	319	Tabla Mute1	Off
49	C#3	216	BD Orchestra	Off	196	Crash 1	Off	416	Gtr Cut Noise2	Off	325	Vibraslap	Off
50	D3	16	BD Gated	Off	143	Tom3 Hi	Off	415	Gtr Cut Noise1	Off	316	Tabla Na	Off
51	D#3	15	BD Tubby	Off	213	Ride Edge 2	Off	221	Finger Snaps	Off	341	Triangle Mute	3
52	E3	13	BD MondoKill	Off	479	Hollo1	Off	373	Laughing	Off	216	BD Orchestra	Off
53 54	F3 F#3	15 14	BD Tubby	Off	480	Hollo2	Off Off	372 385	Scream	Off Off	340	Triangle Open	3 Off
54	G3	20	BD Terminator BD Dance 2	Off Off	338 472	Tambourine Acc1 Darbuka2	Off	385	Punch Heart Beat	Off	308 430	Guiro Short Jingle Bell	Off
55	G#3	265	E.Tom FM	Off	352	Cowbell	Off	375	Footsteps2	Off	307	Guiro Long	Off
57	A3	236	88 Tom	Off	477	Darbuka D3	Off	374	Footsteps1	Off	359	Marc TreeLP	Off
58	A#3	40	BD Deep 88	Off	346	Cabasa Up	Off	371	Applause	Off	358	Marc Tree	Off
59	B3	21	BD Dance 3	Off	466	Bandir Closed	Off	388	Door Creak	Off	309	Maracas Push	Off
60	C4	84	SD Dry 3	Off	480	Hollo2	Off	389	Door Slam	Off	225	Claps 4	Off
61	C#4	88	SD Full Room	Off	295	Bongo Lo Open	Off	272	DJ Scratch2	Off	230	88 Claps	Off
62	D4	89	SD Off Center	Off	480	Hollo2	Off	358	Marc Tree	Off	271	DJ Scratch1	Off
63	D#4	90	SD Jazz Ring	Off	298	Bongo Hi Open	Off	390	Car Engine	Off	272	DJ Scratch2	Off
64	E4 F4	82	SD Dry 1	Off	437	Douf Rim Ak	Off	391	Car Stop Car Pass	Off	277	DJ Hit Rub Samba Whistle	Off
65 66	F4 F#4	92 121	SD Paper SD Vintage4	Off Off	471 475	Darbuka1 Closed Darbuka D1	Off 4	392 393	Car Pass Car Crash	Off Off	361 361	Samba Whistle Samba Whistle	Off Off
67	G4	121	SD Brasser	Off	473	Darbuka3	4	381	Crickets	Off	292	Conga Hi Slap2	Off
68	G#4	98	SD Yowie	Off	475	Darbuka D2	Off	394	Train	Off	292	Conga Heel	Off
69	A4	100	SD Cracker Room	Off	468	Darbuka1 Tek1	Off	410	Noise White	Off	288	Conga Hi Open	Off
70	A#4	97	SD Big Rock	Off	468	Darbuka1 Tek1	Off	395	Helicopter	Off	285	Conga Lo Open	Off
71	B4	115	SD Hip6	Off	470	Darbuka1 DumOp	Off	427	Swish Terra	Off	342	Cuica Hi	Off
72	C5	99	SD Processed	Off	486	Tef1	Off	396	Gun Shot1	Off	343	Cuica Lo	Off
73	C#5	101	SD Dance	Off	487	Tef2	Off	398	Machine Gun	Off	335	Timbale Paila	Off
74	D5	108	SD Noise	Off	447	Rik1	Off	399	Laser Gun	Off	334	Timbale Hi Rim2	Off
75	D#5	118 98	SD Vintage1	Off	449	Rik3	Off	400	Explosion	Off	333	Timbale Hi Rim1	Off
76	E5 F5	126	SD Yowie SD Chili	Off Off	487 486	Tef2 Tef1	Off Off	379 380	Dog Gallop	Off Off	329 238	Timbale Lo Open 88 Claves	Off Off
78	F#5	266	E.Tom Real	Off	480	Tef2	Off	377	Bird1	Off	230	88 Cowbell	Off
79	G5	200	99 SD	Off	445	Rek Dom Ak	Off	387	Rainstick	Off	223	Finger Snaps	Off
80	G#5	227	88 SD	Off	486	Tef1	Off	401	Thunder	Off	323	Taiko Rim	Off
81	A5	227	88 SD	Off	448	Rik2	Off	402	Wind	Off	322	Taiko Open	Off
82	A#5	228	99 SD	Off	488	Tef3	Off	410	Noise White	Off	270	Zap2	Off
83	B5	111	SD Hip2	Off	487	Tef2	Off	403	Stream	Off	219	SD Orch. Roll	5
84	C6	95	SD Brush Tap2	Off	431	Bells Open	2	404	Bubble	Off	220	SD Orchestra	5
85	C#6	94	SD Brush Tap1	Off	450	Sagat Half Open	2	382	Cat	Off	217	Orchestra Cymbal	6
86 87	D6 D#6	93 93	SD Brush Hit SD Brush Hit	Off Off	451 478	Sagat Close Davul	2 Off	378 383	Bird2 Growl	Off Off	217 463	Orchestra Cymbal Udu f Open	6 Off
88	E6	93	SD Brush Hit	Off	478	Ramazan DVL2	3	370	Stadium	Off	282	Orchestra Hit	Off
89	F6	96	SD Brush Swirl	Off	483	Ramazan DVL1	3	406	Telephone Ring	Off	282	Orchestra Hit	Off
90	F#6	96	SD Brush Swirl	Off	485	Ramazan DVL3	3	405	Church Bell	Off	282	Orchestra Hit	Off
91	G6	96	SD Brush Swirl	Off	482	Kup2	5	371	Applause	Off	282	Orchestra Hit	Off
92	G#6	82	SD Dry 1	Off	149	Tom Jazz Hi	5	371	Applause	Off	282	Orchestra Hit	Off
93	A6	84	SD Dry 3	Off	482	Kup2	5	370	Stadium	Off	282	Orchestra Hit	Off
94	A#6	97	SD Big Rock	Off	481	Kup1	Off	410	Noise White	Off	282	Orchestra Hit	Off
95	B6	124	SD AmbiHop	Off	7	BD Dry 3	Off	396	Gun Shot1	Off	282	Orchestra Hit	Off
96 97	C7 C#7	110 118	SD Hip1 SD Vintage1	Off Off	481	Kup1	Off	394	Train	Off	282 282	Orchestra Hit Orchestra Hit	Off Off
97	D7	118	SD Vintage 1 SD Hip3	Off			-				282	Orchestra Hit	Off
98	D#7	123	SD Vintage6	Off							282	Orchestra Hit	Off
100	E7	270	Zap2	Off							282	Orchestra Hit	Off
101	F7	114	SD Hip5	Off							282	Orchestra Hit	Off
102	F#7	127	SD Whopper	Off							282	Orchestra Hit	Off
103	G7	125	SD Brasser	Off							282	Orchestra Hit	Off
104	G#7	118	SD Vintage1	Off							282	Orchestra Hit	Off
105	A7	228	99 SD	Off							282	Orchestra Hit	Off
106	A#7	127	SD Whopper	Off						-	282	Orchestra Hit	Off
107 108	B7 C8	127 101	SD Whopper SD Dance	Off Off							282 282	Orchestra Hit Orchestra Hit	Off Off
108	C#8	101	SD Dance	Off							419	Dist. Slide1	Off
109	D8	228	99 SD	Off			-				419	Dist. Slide2	Off
111	D#8	228	99 SD	Off							415	Gtr Cut Noise1	Off
112	E8	116	SD Ringy	Off							416	Gtr Cut Noise2	Off
113	F8	-	5,								421	E.Gtr Pick1	Off
114	F#8										422	E.Gtr Pick2	Off
115	G8										423	Gtr Scratch1	Off
116	G#8										424	Gtr Scratch2	Off
117	A8										418	Fret Noise	Off
	A#8										417	Power Chord	Off Off
118	50												1 ()++
118 119 120	B8 C9									-	417 425	Power Chord Amp Noise	Off

			120-0-65: Latin Perc Ki		12	20-0-66: Trinity Perc Ki			120-0-67: i30 Perc Kit	-	1	20-0-72: HipHop Kit	_
0 No	C-1	5	Sample BD Dry 1	Excl. Off	5	Sample BD Dry 1	Excl. Off	5	Sample BD Dry 1	Excl. Off	45	Sample SD Wood 2 pp	Excl. Off
1	C#-1	5	BD Dry 1	Off		BD Dry 1	Off	5	BD Dry 1	Off	60	SD Solid2 pp	Off
2	D-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	79	SD Brass2 mf	Off
3	D#-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	75	SD Brass1 p	Off
4	E-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	69	SD Maple2 pp	Off
5	F-1	5	BD Dry 1	Off		BD Dry 1	Off	5	BD Dry 1	Off	63	SD Maple1 pp	Off
6	F#-1	5	BD Dry 1	Off		BD Dry 1	Off	5	BD Dry 1	Off	57	SD Solid1 p	Off
7	G-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	53	SD Piccolo2 pp	Off
8	G#-1 A-1	5	BD Dry 1 BD Dry 1	Off Off	5	BD Dry 1 BD Dry 1	Off Off	5	BD Dry 1 BD Dry 1	Off Off	5 18	BD Dry 1 BD Squash	Off Off
10	A-1 A#-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	115	SD Hip6	Off
11	B-1	5	BD Dry 1	Off		BD Dry 1	Off	5	BD Dry 1	Off	226	88 BD	Off
12	CO	5	BD Dry 1	Off		Rik3	Off	5	BD Dry 1	Off	227	88 SD	Off
13	C#0	5	BD Dry 1	Off	448	Rik2	Off	5	BD Dry 1	Off	112	SD Hip3	Off
14	D0	5	BD Dry 1	Off	447	Rik1	Off	5	BD Dry 1	Off	246	Syn. SD1	Off
15	D#0	5	BD Dry 1	Off		Rek Jingle	Off	5	BD Dry 1	Off	36	BD Ambient	Off
16	EO	5	BD Dry 1	Off	445	Rek Dom Ak	Off	337	Tambourine Pull	Off	245	Syn. BD Buzz	Off
17	FO	5	BD Dry 1	Off	435	Djembe Bass	Off	338	Tambourine Acc1	Off	246	Syn. SD1	Off
18 19	F#0 G0	367 365	Hit It	Off	322	Taiko Open	Off Off	338 339	Tambourine Acc1	Off Off	174	HH3 Open 2	1
20	G0 G#0	365	Yeah! Solo Yeah!	Off Off	444	Pand Pattern4 Pand Pattern3	Off	339	Tambourine Acc2 Tamb. Acc2-BD Dry 1 (2)	Off	244 130	Syn. BD4 Side Stick Dry	Off Off
20	A0	368	Uhhhh Solo	Off		Pand Pattern2	Off	336	Tambourine Push	Off	248	Syn. SD3	Off
21	A#0	341	Triangle Mute	7	442	Pand Pattern1	Off	339	Tambourine Acc2	Off	115	SD Hip6	Off
23	BO	340	Triangle Open	7		Pand Open	Off	316	Tabla Na	Off	132	Drum Stick Hit	Off
24	C1	360	Flexatone	Off	322-323	Taiko Open-Rim (2)	Off	360	Flexatone	Off	220	SD Orchestra	7
25	C#1	357	Finger Cymbal	Off	324	Tsuzumi (2)	Off	357	Finger Cymbal	Off	219	SD Orch. Roll	7
26	D1	239	88 Cowbell	Off	302	Djembe Open (2)	Off	324	Tsuzumi	Off	221	Finger Snaps	Off
27	D#1	306	Castanet Double	Off		Djembe Mute-Slap (2)	Off	299	Bongo Hi Slap	Off	270	Zap2	Off
28	E1	305	Castanet Single	Off		Baya Open-Ghe (2)	Off	300	Bongo Hi Stick1	Off	410	Noise White	Off
29	F1	221	Finger Snaps	Off Off		Baya Mute2-Mute1 (2)	Off	297	Bongo Lo Stick	Off	272	DJ Scratch2	7
30 31	F#1 G1	221 183	Finger Snaps HH Old TiteClose	Off	435-315	Djembe Bass-Baya Mute3 (2) Tabla Open (2)	Off Off	338 351	Tambourine Acc1 Agogo Bell	Off Off	272 132	DJ Scratch2 Drum Stick Hit	/ Off
31	G#1	363	Metal Hit	Off		Tabla Mute3-Tin (2)	Off	402	Wind	Off	269	Zap1	Off
33	A1	324	Tsuzumi	Off		Tabla Mute2-Mute1 (2)	Off	351	Agogo Bell	Off	376	Click	Off
34	A#1	324	Tsuzumi	Off		Tabla Mute2-Na (2)	6	301	Bongo Hi Stick2	Off	340	Triangle Open	Off
35	B1	324	Tsuzumi	Off	319	Tabla Mute1	Off	327	Woodblock1	Off	242	Syn. BD2	Off
36	C2	216	BD Orchestra	1	216	BD Orchestra	Off	326	Claves	Off	241	Syn. BD1	Off
37	C#2	216	BD Orchestra	1	386	Tribe	Off	328	Woodblock2	Off	250	Syn. Rim Click	Off
38	D2	351	Agogo Bell	Off	221	Finger Snaps	Off	352	Cowbell	Off	247	Syn. SD2	Off
39	D#2	351	Agogo Bell	Off	225	Claps 4	Off	327	Woodblock1	Off	230	88 Claps	Off
40	E2	285	Conga Lo Open	Off	341	Triangle Mute	1	306	Castanet Double	Off	249	Syn. SD4	Off
41 42	F2 F#2	286 291	Conga Lo Mt Slap Conga Hi Slap1	Off Off	340 306	Triangle Open Castanet Double	1 Off	311 344	Baya Open Shaker1	Off Off	141 251	Tom2 Hi Syn. HH Closed	Off 1
42	G2	292	Conga Hi Slap2	Off	305	Castanet Single	Off	313	Baya Mute1	Off	141	Tom2 Hi	Off
44	G#2	240	88 Maracas	Off	306	Castanet Double	Off	309	Maracas Push	Off	184	HH Old Close2	Off
45	A2	288	Conga Hi Open	Off	307	Guiro Long	2	311	Baya Open	Off	141	Tom2 Hi	Off
46	A#2	341	Triangle Mute	2	308	Guiro Short	2	346	Cabasa Up	Off	252	Syn. HH Open	1
47	B2	340	Triangle Open	2	307	Guiro Long	2	317	Tabla Open	Off	141	Tom2 Hi	Off
48	C3	286	Conga Lo Mt Slap	Off	325	Vibraslap	Off	319	Tabla Mute1	Off	141	Tom2 Hi	Off
49	C#3	289	Conga Hi Mute	Off	326	Claves	Off	325	Vibraslap	Off	196	Crash 1	Off
50 51	D3 D#3	292 338	Conga Hi Slap2 Tambourine Acc1	Off Off		88 Claves Cuica Lo (2)	Off 3	316 341	Tabla Na Triangle Mute	Off 3	141 210	Tom2 Hi Ride Brush	Off Off
52	E3	288	Conga Hi Open	Off	343	Cuica Hi (2)	Off	216	BD Orchestra	Off	202	Crash Reverse	Off
53	F3	200	Bongo Lo Stick	Off	329	Timbale Lo Open	Off	340	Triangle Open	3	212	Ride Jazz	Off
54	F#3	297	Bongo Lo Stick	Off	327	Woodblock1	Off	308	Guiro Short	Off	339	Tambourine Acc2	Off
55	G3	300	Bongo Hi Stick1	Off	331	Timbale Lo Rim	Off	430	Jingle Bell	Off	201	Splash	Off
56	G#3	329	Timbale Lo Open	Off	327	Woodblock1	Off	307	Guiro Long	Off	259	Syn. FX2	Off
57	A3	301	Bongo Hi Stick2	Off	330	Timbale Lo Mute	Off	359	Marc TreeLP	Off	196	Crash 1	Off
58	A#3	329	Timbale Lo Open	Off	327	Woodblock1	Off	358	Marc Tree	Off	325	Vibraslap Dida Divert	Off
59 60	B3 C4	338 335	Tambourine Acc1 Timbale Paila	Off Off	332 334	Timbale Hi Edge Timbale Hi Rim2	Off Off	309 225	Maracas Push Claps 4	Off Off	211 253	Ride Rivet Syn. Bongo1	Off Off
60	C4 C#4	335	Timbale Hi Edge	Off	353	Chacha Bell	Off	225	88 Claps	Off	253	Syn. Bongo2	Off
61	D4	335	Timbale Paila	Off	333	Timbale Hi Rim1	Off	230	DJ Scratch1	Off	254	Conga Hi Mt Slap	Off
63	D#4	332	Timbale Hi Edge	Off		Mambo Bell	Off	272	DJ Scratch2	Off	288	Conga Hi Open	Off
64	E4	334	Timbale Hi Rim2	Off	335	Timbale Paila (2)	Off	277	DJ Hit Rub	Off	285	Conga Lo Open	Off
65	F4	333	Timbale Hi Rim1	Off	295	Bongo Lo Open	Off	361	Samba Whistle	Off	334	Timbale Hi Rim2	Off
66	F#4	445	Rek Dom Ak	Off	352	Cowbell	Off	361	Samba Whistle	Off	329	Timbale Lo Open	Off
67	G4	445	Rek Dom Ak	Off	296	Bongo Lo Slap	Off	292	Conga Hi Slap2	Off	258	Syn. FX1	Off
1 60			Rek Dom Ak	Off	352 298	Cowbell	Off	293	Conga Heel	Off	259	Syn. FX2	Off
68	G#4	445		0.00		Bongo Hi Open	Off Off	288 285	Conga Hi Open Conga Lo Open	Off Off	346 256	Cabasa Up Syn. Shaker	Off Off
69	A4	446	Rek Jingle	Off		Bongo Hi Stick?					200		
69 70	A4 A#4	446 354	Rek Jingle Mambo Bell	Off	301	Bongo Hi Stick2 Bongo Hi Slap (2)							2
69	A4	446	Rek Jingle Mambo Bell Woodblock1			Bongo Hi Slap (2)	Off Off	342 343	Cuica Hi Cuica Lo	Off Off	361 361	Samba Whistle	2
69 70 71	A4 A#4 B4	446 354 327	Rek Jingle Mambo Bell	Off Off	301 299		Off	342	Cuica Hi	Off	361		2 2 3
69 70 71 72	A4 A#4 B4 C5	446 354 327 328	Rek Jingle Mambo Bell Woodblock1 Woodblock2	Off Off Off	301 299 285	Bongo Hi Slap (2) Conga Lo Open (2)	Off Off	342 343	Cuica Hi Cuica Lo	Off Off	361 361	Samba Whistle Samba Whistle	2
69 70 71 72 73 74 75	A4 A#4 B4 C5 C#5 D5 D#5	446 354 327 328 352 309 354	Rek Jingle Mambo Bell Woodblock1 Woodblock2 Cowbell Maracas Push Mambo Bell	Off Off Off Off Off Off	301 299 285 287 286 290	Bongo Hi Slap (2) Conga Lo Open (2) Conga Lo Slap Conga Lo Mt Slap Conga Hi Mt Slap	Off Off Off Off Off	342 343 335 334 333	Cuica Hi Cuica Lo Timbale Paila Timbale Hi Rim2 Timbale Hi Rim1	Off Off Off Off Off	361 361 308 307 326	Samba Whistle Samba Whistle Guiro Short Guiro Long Claves	2 3 3 Off
69 70 71 72 73 74 75 76	A4 A#4 B4 C5 C#5 D5 D#5 E5	446 354 327 328 352 309 354 346	Rek Jingle Mambo Bell Woodblock1 Woodblock2 Cowbell Maracas Push Mambo Bell Cabasa Up	Off Off Off Off Off Off Off	301 299 285 287 286 290 288	Bongo Hi Slap (2) Conga Lo Open (2) Conga Lo Slap Conga Lo Mt Slap Conga Hi Mt Slap Conga Hi Open (2)	Off Off Off Off Off	342 343 335 334 333 329	Cuica Hi Cuica Lo Timbale Paila Timbale Hi Rim2 Timbale Hi Rim1 Timbale Lo Open	Off Off Off Off Off Off	361 361 308 307 326 327	Samba Whistle Samba Whistle Guiro Short Guiro Long Claves Woodblock1	2 3 3 Off Off
69 70 71 72 73 74 75 76 77	A4 A#4 B4 C5 C#5 D5 D#5 E5 F5	446 354 327 328 352 309 354 346 344	Rek Jingle Mambo Bell Woodblock1 Woodblock2 Cowbell Maracas Push Mambo Bell Cabasa Up Shaker1	Off Off Off Off Off Off Off Off	301 299 285 287 286 290 288 289	Bongo Hi Slap (2) Conga Lo Open (2) Conga Lo Slap Conga Lo Mt Slap Conga Hi Mt Slap Conga Hi Open (2) Conga Hi Mute	Off Off Off Off Off Off	342 343 335 334 333 329 238	Cuica Hi Cuica Lo Timbale Paila Timbale Hi Rim2 Timbale Hi Rim1 Timbale Lo Open 88 Claves	Off Off Off Off Off Off Off	361 361 308 307 326 327 327	Samba Whistle Samba Whistle Guiro Short Guiro Long Claves Woodblock1 Woodblock1	2 3 Off Off Off
69 70 71 72 73 74 75 76 77 78	A4 A#4 C5 C#5 D5 D#5 E5 F5 F5 F5	446 354 327 328 352 309 354 346 344 352	Rek Jingle Mambo Bell Woodblock1 Woodblock2 Cowbell Maracas Push Mambo Bell Cabasa Up Shaker1 Cowbell	Off Off Off Off Off Off Off Off Off	301 299 285 287 286 290 288 289 289 293	Bongo Hi Slap (2) Conga Lo Open (2) Conga Lo Slap Conga Lo Mt Slap Conga Hi Mt Slap Conga Hi Open (2) Conga Hi Mute Conga Heel	Off Off Off Off Off Off Off	342 343 335 334 333 329 238 239	Cuica Hi Cuica Lo Timbale Paila Timbale Hi Rim2 Timbale Hi Rim1 Timbale Lo Open 88 Claves 88 Cowbell	Off Off Off Off Off Off Off Off	361 361 308 307 326 327 327 261	Samba Whistle Samba Whistle Guiro Short Guiro Long Claves Woodblock1 Woodblock1 Syn. FX4	2 3 0ff 0ff 0ff 4
69 70 71 72 73 74 75 76 77 78 79	A4 A#4 C5 C#5 D5 D#5 E5 F5 F5 F5 F#5 G5	446 354 327 328 352 309 354 346 344 352 347	Rek Jingle Mambo Bell Woodblock1 Woodblock2 Cowbell Maracas Push Mambo Bell Cabasa Up Shaker1 Cowbell Cabasa Down	Off Off Off Off Off Off Off Off Off Off	301 299 285 287 286 290 288 289 293 293 291	Bongo Hi Slap (2) Conga Lo Open (2) Conga Lo Slap Conga Lo Mt Slap Conga Hi Mt Slap Conga Hi Open (2) Conga Hi Mute Conga Heel Conga Hi Slap1	Off Off Off Off Off Off Off Off	342 343 335 334 333 329 238 239 221	Cuica Hi Cuica Lo Timbale Paila Timbale Hi Rim2 Timbale Hi Rim1 Timbale Lo Open 88 Claves 88 Cowbell Finger Snaps	Off Off Off Off Off Off Off Off Off	361 361 308 307 326 327 327 261 262	Samba Whistle Samba Whistle Guiro Short Guiro Long Claves Woodblock1 Woodblock1 Syn. FX4 Syn. FX5	2 3 3 Off Off Off 4 4
69 70 71 72 73 74 75 76 77 78 79 80	A4 A#4 B4 C5 C#5 D5 D#5 E5 F5 F5 F5 F#5 G5 G5 G#5	446 354 327 328 352 309 354 346 344 352 347 347	Rek Jingle Mambo Bell Woodblock1 Woodblock2 Cowbell Maracas Push Mambo Bell Cabasa Up Shaker1 Cowbell Cabasa Down Cabasa Down	Off Off Off Off Off Off Off Off Off Off	301 299 285 287 286 290 288 289 293 293 291 294	Bongo Hi Slap (2) Conga Lo Open (2) Conga Lo Slap Conga Lo Mt Slap Conga Hi Mt Slap Conga Hi Open (2) Conga Hi Mute Conga Heel Conga Hi Slap1 Conga Toe	Off Off Off Off Off Off Off Off Off	342 343 335 334 333 329 238 239 221 323	Cuica Hi Cuica Lo Timbale Paila Timbale Hi Rim2 Timbale Hi Rim1 Timbale Lo Open 88 Claves 88 Cowbell Finger Snaps Taiko Rim	Off Off Off Off Off Off Off Off Off Off	361 361 308 307 326 327 327 261 262 341	Samba Whistle Samba Whistle Guiro Short Guiro Long Claves Woodblock1 Woodblock1 Syn. FX4 Syn. FX4 Syn. FX5 Triangle Mute	2 3 0ff 0ff 0ff 4 4 5
69 70 71 72 73 74 75 76 77 78 79 80 81	A4 A#4 B4 C5 C#5 D5 D#5 E5 F5 F5 F5 F#5 G5 G#5 A5	446 354 327 328 352 309 354 346 344 352 347 347 347	Rek Jingle Mambo Bell Woodblock1 Woodblock2 Cowbell Maracas Push Mambo Bell Cabasa Up Shaker1 Cabasa Down Cabasa Down Cabasa Down	Off Off Off Off Off Off Off Off Off Off	301 299 285 287 286 290 288 289 293 293 291 294 292	Bongo Hi Slap (2) Conga Lo Open (2) Conga Lo Slap Conga Lo Mt Slap Conga Hi Mt Slap Conga Hi Open (2) Conga Hi Mute Conga Heel Conga Hi Slap1 Conga Toe Conga Hi Slap2	Off Off Off Off Off Off Off Off Off Off	342 343 335 334 333 329 238 239 221 323 322	Cuica Hi Cuica Lo Timbale Paila Timbale Hi Rim2 Timbale Hi Rim1 Timbale Lo Open 88 Claves 88 Cowbell Finger Snaps Taiko Rim Taiko Open	Off Off Off Off Off Off Off Off Off Off	361 308 307 326 327 327 261 262 341 340	Samba Whistle Samba Whistle Guiro Short Guiro Long Claves Woodblock1 Woodblock1 Syn. FX4 Syn. FX4 Syn. FX5 Triangle Mute Triangle Open	2 3 Off Off Off 4 4 5 5 5
69 70 71 72 73 74 75 76 77 78 79 80	A4 A#4 B4 C5 C#5 D5 D#5 E5 F5 F5 F5 F#5 G5 G5 G#5	446 354 327 328 352 309 354 346 344 352 347 347	Rek Jingle Mambo Bell Woodblock1 Woodblock2 Cowbell Maracas Push Mambo Bell Cabasa Up Shaker1 Cowbell Cabasa Down Cabasa Down	Off Off Off Off Off Off Off Off Off Off	301 299 285 287 286 290 288 289 293 291 294 292 351	Bongo Hi Slap (2) Conga Lo Open (2) Conga Lo Slap Conga Lo Mt Slap Conga Hi Mt Slap Conga Hi Open (2) Conga Hi Mute Conga Heel Conga Hi Slap1 Conga Toe	Off Off Off Off Off Off Off Off Off	342 343 335 334 333 329 238 239 221 323	Cuica Hi Cuica Lo Timbale Paila Timbale Hi Rim2 Timbale Hi Rim1 Timbale Lo Open 88 Claves 88 Cowbell Finger Snaps Taiko Rim	Off Off Off Off Off Off Off Off Off Off	361 361 308 307 326 327 327 261 262 341	Samba Whistle Samba Whistle Guiro Short Guiro Long Claves Woodblock1 Woodblock1 Syn. FX4 Syn. FX4 Syn. FX5 Triangle Mute	2 3 0ff 0ff 0ff 4 4 5

			120-0-65: Latin Perc Ki	t	1	20-0-66: Trinity Perc Ki	t		120-0-67: i30 Perc Kit			120-0-72: HipHop Kit I	RX
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
84	C6	459	Tambourin Mute1	5	309-310	Maracas Push-Pull (2)	Off	220	SD Orchestra	5	358	Marc Tree	Off
85	C#6	459	Tambourin Mute1	6	344	Shaker1 (2)	Off	217	Orchestra Cymbal	6	255	Syn. Castanet	Off
86	D6	460	Tambourin Mute2	6	345	Shaker2 (2)	Off	217	Orchestra Cymbal	6	330	Timbale Lo Mute	6
87	D#6	463	Udu f Open	Off	347-348	Cabasa Down-Tap (2)	Off	463	Udu f Open	Off	329	Timbale Lo Open	6
88	E6	302	Djembe Open	Off	348-346	Cabasa Tap-Up (2)	Off	282	Orchestra Hit	Off	370	Stadium	Off
89	F6	310	Maracas Pull	Off	350-349	Caxixi Soft-Hard (2)	Off	282	Orchestra Hit	Off			
90	F#6	310	Maracas Pull	Off	336	Tambourine Push	Off	282	Orchestra Hit	Off			
91	G6	342	Cuica Hi	Off	338	Tambourine Acc1 (2)	Off	282	Orchestra Hit	Off			
92	G#6	307	Guiro Long	3	337	Tambourine Pull	Off	282	Orchestra Hit	Off			
93	A6	308	Guiro Short	3	339	Tambourine Acc2	Off	282	Orchestra Hit	Off			
94	A#6	308	Guiro Short	3	355	Sleigh Bell (2)	Off	282	Orchestra Hit	Off			
95	B6	343	Cuica Lo	Off	361	Samba Whistle	4	282	Orchestra Hit	Off			
96	C7	326	Claves	Off	361	Samba Whistle	4	282	Orchestra Hit	Off			
97	C#7	361	Samba Whistle	4	356	Rap Sleigh Bell	Off	282	Orchestra Hit	Off			
98	D7	361	Samba Whistle	4	361	Samba Whistle	4	282	Orchestra Hit	Off			
99	D#7	450	Sagat Half Open	5	358	Marc Tree	5	282	Orchestra Hit	Off			
100	E7	450	Sagat Half Open	5	361	Samba Whistle	4	282	Orchestra Hit	Off			
101	F7	451	Sagat Close	5	431	Bells Open	5	282	Orchestra Hit	Off			
102	F#7	430	Jingle Bell	Off	387	Rainstick	Off	282	Orchestra Hit	Off			
103	G7	358	Marc Tree	Off	362	Chinese Gong	Off	282	Orchestra Hit	Off			
104	G#7	358	Marc Tree	Off	377	Bird1	Off	282	Orchestra Hit	Off			
105	A7	355	Sleigh Bell	2	377	Bird1	Off	282	Orchestra Hit	Off			
106	A#7	467	Bongo Roll	6	378	Bird2	Off	282	Orchestra Hit	Off			
107	B7	267	Rim House1	Off	408	Cricket Spectrum	Off	282	Orchestra Hit	Off			
108	C8	267	Rim House1	Off	358	Marc Tree	Off	282	Orchestra Hit	Off			
109	C#8	25	BD House 4	Off				419	Dist. Slide1	Off			
110	D8	228	99 SD	Off				341	Triangle Mute	3			
111	D#8	40	BD Deep 88	Off				340	Triangle Open	3			
112	E8	227	88 SD	Off				360	Flexatone	Off			
113	F8	90	SD Jazz Ring	Off				431	Bells Open	Off			
114	F#8	99	SD Processed	Off				350	Caxixi Soft	Off			
115	G8	5	BD Dry 1	Off				306	Castanet Double	Off			
116	G#8	38	BD Amb.Rocker	Off				306	Castanet Double	Off			
117	A8	91	SD Amb.Piccolo	Off				221	Finger Snaps	Off			
118	A#8	170	HH3 Closed1	Off				221	Finger Snaps	Off			
119	B8	11	BD Pillow	Off				363	Metal Hit	Off			
120	C9	131	Side Stick Amb	Off				363	Metal Hit	Off			
121	C#9	5	BD Dry 1	Off									
122	D9	5	BD Dry 1	Off									
123	D#9	5	BD Dry 1	Off									
124	E9	5	BD Dry 1	Off									

			120-0-73: Techno Kit	RX		120-0-74: Dance Kit R	x	1	120-0-88: Standard Ki	t 4		120-0-89: Pop Std. Kit 1		
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.	
0	C-1	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	45	SD Wood 2 pp	Off	
1	C#-1	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid2 p	Off	60	SD Solid 2 p	Off	
2	D-1	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass2 mf	Off	79	SD Brass 2 mf	Off	
3	D#-1	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass1 p	Off	75	SD Brass 1 p	Off	
4	E-1	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple2 pp	Off	69	SD Maple 2 pp	Off	
5	F-1	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple1 pp	Off	63	SD Maple 1 pp	Off	
6	F#-1	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid1 p	Off	57	SD Solid 1 p	Off	
7	G-1	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo2 pp	Off	53	SD Piccolo 2 pp	Off	
8	G#-1	5	BD Dry 1	Off	5	BD Dry 1	Off				5	BD Dry 1	Off	
9	A-1	39	BD Pop 99	Off	32	BD Hip 3	Off	25	BD House 4	Off	18	BD Squash	Off	
10	A#-1	228	99 SD	Off	115	SD Hip6	Off	228	99 SD	Off	115	SD Hip 6	Off	
11	B-1	265	E.Tom FM	Off	226	88 BD	Off	226	88 BD	Off	226	88 BD	Off	
12	C0	227	88 SD	Off	227	88 SD	Off	227	88 SD	Off	52	SD Piccolo 1 f	Off	
13	C#0	105	SD House4	Off	112	SD Hip3	Off	89	SD Off Center	Off	59	SD Solid 1 f	Off	
14	D0	104	SD House3	Off	114	SD Hip5	Off	99	SD Processed	1	52	SD Piccolo 1 f	Off	
15	D#0	24	BD House 3	Off	36	BD Ambient	Off	38	BD Amb.Rocker	Off	36	BD Ambient	Off	
16	E0	27	BD Liquid	Off	22	BD House 1	Off	17	BD Tight	Off	16	BD Gated	Off	
17	F0	106	SD Small	Off	91	SD Amb.Piccolo	Off	90	SD Jazz Ring	Off	59	SD Solid 1 f	Off	
18	F#0	181	HH Old Close1	1	174	HH3 Open 2	1	171	HH3 Closed2	1	161-162	HH2 Closed p-mp (2)	1	
19	G0	20	BD Dance 2	Off	23	BD House 2	Off	7	BD Dry 3	Off	38	BD Amb.Rocker	Off	
20	G#0	131	Side Stick Amb	Off	130	Side Stick Dry	Off	130	Side Stick Dry	Off	130	Side Stick Dry	Off	
21	A0	111	SD Hip2	Off	98	SD Yowie	Off	83	SD Dry 2	Off	67	SD Maple 1 f	7	
22	A#0	227	88 SD	Off	115	SD Hip6	Off	82	SD Dry 1	Off	68	SD Maple 1 ff	7	
23	B0	268	Rim House2	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	DrumStick Hit	Off	
24	C1	220	SD Orchestra	7	220	SD Orchestra	7	220	SD Orchestra	7	59	SD Solid 1 f	7	
25	C#1	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	7	
26	D1	270	Zap2	Off	221	Finger Snaps	Off	221	Finger Snaps	Off	221	Finger Snaps	Off	
27	D#1	270	Zap2	Off	270	Zap2	Off	270	Zap2	Off	270	Zap 2	Off	
28	E1	410	Noise White	Off	410	Noise White	Off	410	Noise White	Off	410	Noise White	Off	
29	F1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch 2	7	
30	F#1	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch2	7	272	DJ Scratch 2	7	
31	G1	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	Drum Stick Hit	Off	132	DrumStick Hit	Off	
32	G#1	269	Zap1	Off	269	Zap1	Off	269	Zap1	Off	269	Zap 1	Off	
33	A1	376	Click	Off	376	Click	Off	376	Click	Off	376	Click	Off	
34	A#1	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off	340	Triangle Open	Off	
35	B1	26	BD House 5	Off	22	BD House 1	Off	7	BD Dry 3	Off	17	BD Tight	Off	
36	C2	28	BD Techno 1	Off	23	BD House 2	Off	17	BD Tight	Off	17	BD Tight	Off	

			120-0-73: Techno Kit R	x		120-0-74: Dance Kit R	ĸ	1	120-0-88: Standard Ki	t 4		120-0-89: Pop Std. Kit 1	
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
37	C#2	229	88 Rim Shot	Off	369	Comp Voice Noise	Off	131	Side Stick Amb	Off	129	Rim Shot f	Off
38	D2	103	SD House2	Off	228	99 SD	Off	91	SD Amb.Piccolo	Off	490	SD Rock	Off
39	D#2	230	88 Claps	Off	230	88 Claps	Off	230	88 Claps	Off	230	88 Claps	Off
40	E2	228	99 SD	Off	228	99 SD	Off	88	SD Full Room	Off	490	SD Rock	Off
41	F2	148	Tom Processed	Off	266	E.Tom Real	Off	145	Tom3 Floor	Off	140	Tom 1 Floor f	Off
42	F#2	233	99 HH Close	1	183	HH Old TiteClose	1	174	HH3 Open 2	1	163-165	HH2 Closed mf-ff (2)	1
43	G2	148	Tom Processed	Off	266	E.Tom Real	Off	145	Tom3 Floor	Off	138	Tom 1 Low f	Off
44	G#2	232	88 HH Open	1	189	HH Alpo Close	Off	178	HH4 Foot	1	157-156	HH1 Foot mf-mp (2)	1
45	A2	148	Tom Processed	Off	266	E.Tom Real	Off	144	Tom3 Low	Off	138	Tom 1 Low f	Off
46	A#2	186	HH House Open1	1	185	HH Old Open2	1	173	HH3 Open 1	1	168	HH2 Open p	1
47	B2	148	Tom Processed	Off	266	E.Tom Real	Off	144	Tom3 Low	Off	136	Tom 1 Mid f	Off
48	C3	148	Tom Processed	Off	266	E.Tom Real	Off	143	Tom3 Hi	Off	134	Tom 1 Hi f	Off
49	C#3	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off
50	D3	148	Tom Processed	Off	266	E.Tom Real	Off	143	Tom3 Hi	Off	134	Tom 1 Hi f	Off
51	D#3	205	Ride Dance 99	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off	207-209	Ride 20' mp-mf 2 (2)	Off
52	E3	202	Crash Reverse	Off	202	Crash Reverse	Off	198	China	Off	198	China	Off
53	F3	214	Ride Jazz	Off	214	Ride Jazz	Off	214	Ride Jazz	Off	215	Ride Cup	Off
54	F#3	338	Tambourine Acc1	Off	339	Tambourine Acc2	Off	339	Tambourine Acc2	Off	339	Tambourine Acc 2	Off
55	G3	201	Splash	Off	198	China	Off	201	Splash	Off	201	Splash	Off
56	G#3	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off
57	A3	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off
58	A#3	386	Tribe	Off	325	Vibraslap	Off	325	Vibraslap	Off	325	Vibraslap	Off
59	B3	263	Perc. Ahh	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off	206	Ride 20' mp 1	Off
60	C4	237	88 Conga	Off	298	Bongo Hi Open	Off	298	Bongo Hi Open	Off	298	Bongo Hi Open	Off
61	C#4	237	88 Conga	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off
62	D4	237	88 Conga	Off	290	Conga Hi Mt Slap	Off	290	Conga Hi Mt Slap	Off	290	Conga Hi MtSlap	Off
63	D#4	236	88 Tom	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off
64	E4	236	88 Tom	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off
65	F4	410	Noise White	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim2	Off	334	Timbale Hi Rim 2	Off
66	F#4	400	Explosion	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off
67	G4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
68	G#4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off
69	A4	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off
70	A#4	309	Maracas Push	Off	309	Maracas Push	Off	309	Maracas Push	Off	346	Cabasa Up	Off
71	B4	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
72	C5	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2
73	C#5	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3	308	Guiro Short	3
74	D5	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3	307	Guiro Long	3
75	D#5	326	Claves	Off	326	Claves	Off	326	Claves	Off	326	Claves	Off
76	E5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock 1	Off
77	F5	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock1	Off	327	Woodblock 1	Off
78	F#5	261	Syn. FX4	4	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4
79	G5	262	Syn. FX5	4	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4
80	G#5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5	341	Triangle Mute	5
81	A5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5	340	Triangle Open	5
82	A#5	345	Shaker2	Off	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off
83	B5	338	Tambourine Acc1	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off	355	Sleigh Bell	Off
84	C6	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off	358	Marc Tree	Off
85	C#6	255	Syn. Castanet	Off	305	Castanet Single	Off	305	Castanet Single	Off	305	Castanet Single	Off
86	D6	266	E.Tom Real	Off	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6	330	Timbale Lo Mute	6
87	D#6	264	Boom	Off	329	Timbale Lo Open	6	329	Timbale Lo Open	6	329	Timbale Lo Open	6
88	E6	370	Stadium	Off	329	Stadium	Off	329	Stadium	Off	329	Stadium	Off
00		5/0	Juanum		5/0	Juanum		570	Juanum		5/0	Juanum	

120-0-90: Pop Std. Kit 2		120-0-96: Elektro Kit 1		120-0-97: Elektro Kit 2			120-0-117: Arabian Kit 2						
No	ote		Sample	Excl.		Sample	Excl.		Sample	Excl.		Sample	Excl.
0	C-1	45	SD Wood 2 pp	Off	489	Empty	Off	489	Empty	Off	45	SD Wood 2 pp	Off
1	C#-1	60	SD Solid 2 p	Off	60	SD Solid 2 p	Off	60	SD Solid 2 p	Off	60	SD Solid2 p	Off
2	D-1	79	SD Brass 2 mf	Off	79	SD Brass 2 mf	Off	79	SD Brass 2 mf	Off	79	SD Brass2 mf	Off
3	D#-1	75	SD Brass 1 p	Off	75	SD Brass 1 p	Off	75	SD Brass 1 p	Off	75	SD Brass1 p	Off
4	E-1	69	SD Maple 2 pp	Off	69	SD Maple 2 pp	Off	69	SD Maple 2 pp	Off	69	SD Maple2 pp	Off
5	F-1	63	SD Maple 1 pp	Off	63	SD Maple 1 pp	Off	63	SD Maple 1 pp	Off	63	SD Maple1 pp	Off
6	F#-1	57	SD Solid 1 p	Off	57	SD Solid 1 p	Off	57	SD Solid 1 p	Off	57	SD Solid1 p	Off
7	G-1	53	SD Piccolo 2 pp	Off	53	SD Piccolo 2 pp	Off	53	SD Piccolo 2 pp	Off	53	SD Piccolo2 pp	Off
8	G#-1	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off	5	BD Dry 1	Off
9	A-1	18	BD Squash	Off	30	BD Hip 1	Off	30	BD Hip 1	Off	25	BD House 4	Off
10	A#-1	115	SD Hip 6	Off	228	99 SD	Off	228	99 SD	Off	228	99 SD	Off
11	B-1	226	88 BD	Off	226	88 BD	Off	226	88 BD	Off	226	88 BD	Off
12	C0	52	SD Piccolo 1 f	Off	227	88 SD	Off	227	88 SD	Off	227	88 SD	Off
13	C#0	59	SD Solid 1 f	Off	89	SD Off Center	Off	89	SD Off Center	Off	88	SD Full Room	Off
14	D0	52	SD Piccolo 1 f	Off	120	SD Vintage3	Off	120	SD Vintage3	Off	99	SD Processed	1
15	D#0	36	BD Ambient	Off	34	BD Pop Kick	Off	34	BD Pop Kick	Off	5	BD Dry 1	Off
16	E0	16	BD Gated	Off	36	BD Ambient	Off	36	BD Ambient	Off	17	BD Tight	Off
17	F0	59	SD Solid 1 f	Off	115	SD Hip 6	Off	115	SD Hip 6	Off	82	SD Dry 1	Off
18	F#0	161-162	HH2 Closed p-mp (2)	1	231	88 HH Close	1	231	88 HH Close	1	171	HH3 Closed2	1
19	G0	38	BD Amb.Rocker	Off	25	BD House 4	Off	25	BD House 4	Off	7	BD Dry 3	Off
20	G#0	130	Side Stick Dry	Off	270	Zap 2	Off	270	Zap 2	Off	131	Side Stick Amb	Off
21	A0	67	SD Maple 1 f	7	99	SD Processed	Off	99	SD Processed	Off	132	Drum Stick Hit	Off
22	A#0	68	SD Maple 1 ff	7	121	SD Vintage4	Off	121	SD Vintage4	Off	412	Tubular	Off
23	B0	132	DrumStick Hit	Off	132	DrumStick Hit	Off	132	DrumStick Hit	Off	352	Cowbell	Off
24	C1	59	SD Solid 1 f	7	220	SD Orchestra	7	220	SD Orchestra	7	352	Cowbell	Off
25	C#1	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	7	219	SD Orch. Roll	Off

27 L 28 29 30 H 31 - 32 - 33 - 34 - 35 - 36 - 37 C 38 - 40 - 41 - 42 H 43 - 44 C 45 - 46 - 47 - 48 -	D1 D41 E1 F1 F1 G1 G41 G41 A41 B1 C2 C#2 D2 D2 D2 D2 D2 D2 D2 D2 D2 D2 D2 D2 D2	221 270 410 272 272 269 376 340 17 17 17 129 491 230 491 140 163-165 138 157-156 138	Sample Finger Snaps Zap 2 Noise White DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Tight BD Tight BD Tight Rim Shot f SD Normal 88 Claps SD Normal 88 Claps SD Normal 70m 1 Floor f HH2 Closed mf-ff (2) Tom 1 Low f	Excl. Off Off Off 7 7 7 Off Off Off Off Off O	270 410 272 272 132 269 376 340 20 265 129 490 230 490	Sample Finger Snaps Zap 2 Noise White DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Dance 2 E.Tom FM Rim Shot f SD Rock 88 Claps	Excl. Off Off 7 7 7 0ff Off Off Off Off Off Off	221 270 410 272 272 132 269 376 340 20 265	Sample Finger Snaps Zap 2 Noise White DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Dance 2	Excl. Off Off Off 7 7 7 Off Off Off Off Off	221 270 171 272 272 132 292 376 376 376 7	Sample Finger Snaps Zap2 HH3 Closed2 DJ Scratch2 DJ Scratch2 Drum Stick Hit Conga Hi Slap2 Click Click	Excl. Off Off Off Off Off Off Off Off Off
27 L 28 29 30 31 31 32 33 34 35 36 37 C 38 39 40 41 42 H 43 44 45 44 45 47 48 27	D#1 E1 F1 G1 G#1 A1 A1 A1 B1 C22 C#2 D2 D2 D2 D2 D2 E2 F2 F2 F2 F2 F2 G2 G42 G42 A2 A2 A2 A2 A2 A2 A2 A2 A2 A	270 410 272 272 132 269 376 340 17 17 129 491 230 491 230 491 140 163-165 138 157-156	Zap 2 Noise White DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Tight BD Tight BD Tight BD Tight Rim Shot f SD Normal 88 Claps SD Normal Tom 1 Floor f <i>HH2 Closed mf-ff</i> (2) Tom 1 Low f	Off Off 7 7 Off Off Off Off Off Off Off	270 410 272 272 132 269 376 340 20 265 129 490 230 490	Zap 2 Noise White DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Dance 2 E.Tom FM Rim Shot f SD Rock	Off Off 7 7 Off Off Off Off Off Off Off	270 410 272 272 132 269 376 340 20	Zap 2 Noise White DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Dance 2	Off Off 7 7 Off Off Off Off Off	270 171 272 272 132 292 376 376	Zap2 HH3 Closed2 DJ Scratch2 Drum Stick Hit Conga Hi Slap2 Click Click	Off Off Off Off Off Off Off Off
28 29 30 1 31 - 32 C 33 - 34 - 35 - 36 - 37 C 38 - 40 - 41 - 42 1 43 - 44 C 45 - 46 - 47 - 48 -	E1 F1 G1 G41 A41 B1 C2 C#2 D2 D#2 D#2 E2 F2 F2 F2 F2 G2 G#2 A2 A#2	410 272 272 132 269 376 340 17 17 17 129 491 230 491 140 163-165 138 157-156	Noise White DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Tight BD Tight BD Tight Rim Shot f SD Normal 88 Claps SD Normal Tom 1 Floor f <i>HH2 Closed mf-ff (2)</i> Tom 1 Low f	Off 7 7 Off Off Off Off Off Off Off Off	410 272 272 132 269 376 340 20 265 129 490 230 490	Noise White DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Dance 2 E.Tom FM Rim Shot f SD Rock	Off 7 7 Off Off Off Off Off Off Off	410 272 272 132 269 376 340 20	Noise White DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Dance 2	Off 7 7 Off Off Off Off Off	171 272 272 132 292 376 376	HH3 Closed2 DJ Scratch2 DJ Scratch2 Drum Stick Hit Conga Hi Slap2 Click Click	Off Off Off Off Off Off Off
29 30 1 31 32 0 32 0 33 4 34 4 35 36 37 0 38 39 1 38 39 1 4 4 1 40 41 43 4	F1 F#1 G1 G#1 A1 A1 B1 C2 C#2 D2 D2 D2 D2 D2 F2 F2 F2 F2 G2 G22 G42 A2 A#2	272 132 269 376 340 17 17 129 491 230 491 140 163-165 138 157-156	DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click BD Tight BD Tight BD Tight Rim Shot f SD Normal 88 Claps SD Normal 70m 1 Floor f HH2 Closed mf-ff (2) Tom 1 Low f	7 7 Off Off Off Off Off Off Off	272 272 132 269 376 340 20 265 129 490 230 490	DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Dance 2 E.Tom FM Rim Shot f SD Rock	7 7 Off Off Off Off Off Off Off	272 272 132 269 376 340 20	DJ Scratch 2 DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Dance 2	7 7 Off Off Off Off Off	272 272 132 292 376 376	DJ Scratch2 DJ Scratch2 Drum Stick Hit Conga Hi Slap2 Click Click	Off Off Off Off Off Off
30 1 31 32 32 0 33 - 34 - 35 - 36 - 37 0 38 - 39 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 -	F#1 G1 G#1 A1 A1 B1 C2 C#2 D2 D#2 F2 F2 G2 G2 G4 G2 G4 A2	272 132 269 376 340 17 129 491 230 491 140 163-165 138 157-156	DJ Scratch 2 DrumStick Hit Zap 1 Click BD Tight BD Tight BD Tight Rim Shot f SD Normal 88 Claps SD Normal 70m 1 Floor f HH2 Closed mf-ff (2) Tom 1 Low f	7 Off Off Off Off Off Off Off Off Off Of	272 132 269 376 340 20 265 129 490 230 490	DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Dance 2 E.Tom FM Rim Shot f SD Rock	7 Off Off Off Off Off Off Off	272 132 269 376 340 20	DJ Scratch 2 DrumStick Hit Zap 1 Click Triangle Open BD Dance 2	7 Off Off Off Off Off	272 132 292 376 376	DJ Scratch2 Drum Stick Hit Conga Hi Slap2 Click Click	Off Off Off Off Off
31 32 0 32 0 33 34 34 4 35 36 37 0 36 37 0 38 39 0 40 41 43 0 41 43 0 44 0 44 0 45 44 0 45 44 45 47 48 <td< th=""><th>G1 G#1 A1 A#1 C2 C#2 D2 D#2 D#2 E2 F2 F2 F2 G2 G2 G#2 A2 A#2</th><th>132 269 376 340 17 129 491 230 491 140 163-165 138 157-156</th><th>DrumStick Hit Zap 1 Click Triangle Open BD Tight BD Tight BD Tight Rim Shot f SD Normal 88 Claps SD Normal Tom 1 Floor f HH2 Closed mf-ff (2) Tom 1 Low f</th><th>Off Off Off Off Off Off Off Off Off Off</th><th>132 269 376 340 20 265 129 490 230 490</th><th>DrumStick Hit Zap 1 Click Triangle Open BD Dance 2 E.Tom FM Rim Shot f SD Rock</th><th>Off Off Off Off Off Off Off</th><th>132 269 376 340 20</th><th>DrumStick Hit Zap 1 Click Triangle Open BD Dance 2</th><th>Off Off Off Off Off</th><th>132 292 376 376</th><th>Drum Stick Hit Conga Hi Slap2 Click Click</th><th>Off Off Off Off</th></td<>	G1 G#1 A1 A#1 C2 C#2 D2 D#2 D#2 E2 F2 F2 F2 G2 G2 G#2 A2 A#2	132 269 376 340 17 129 491 230 491 140 163-165 138 157-156	DrumStick Hit Zap 1 Click Triangle Open BD Tight BD Tight BD Tight Rim Shot f SD Normal 88 Claps SD Normal Tom 1 Floor f HH2 Closed mf-ff (2) Tom 1 Low f	Off Off Off Off Off Off Off Off Off Off	132 269 376 340 20 265 129 490 230 490	DrumStick Hit Zap 1 Click Triangle Open BD Dance 2 E.Tom FM Rim Shot f SD Rock	Off Off Off Off Off Off Off	132 269 376 340 20	DrumStick Hit Zap 1 Click Triangle Open BD Dance 2	Off Off Off Off Off	132 292 376 376	Drum Stick Hit Conga Hi Slap2 Click Click	Off Off Off Off
32 C 33 J 34 J 35 J 36 J 37 C 38 J 40 J 41 J 42 J 43 J 44 C 45 J 46 J 47 48	G#1 A1 A#1 C2 C#2 D2 D#2 E2 F2 F2 F2 G2 G2 G#2 A2 A#2	269 376 340 17 129 491 230 491 140 163-165 138 157-156	Zap 1 Click Triangle Open BD Tight BD Tight Rim Shot f SD Normal 88 Claps SD Normal Tom 1 Floor f <i>HH2 Closed mf-ff</i> (2) Tom 1 Low f	Off Off Off Off Off Off Off Off Off	269 376 340 20 265 129 490 230 490	Zap 1 Click Triangle Open BD Dance 2 E.Tom FM Rim Shot f SD Rock	Off Off Off Off Off Off	269 376 340 20	Zap 1 Click Triangle Open BD Dance 2	Off Off Off Off	292 376 376	Conga Hi Slap2 Click Click	Off Off Off
33	A1 A#1 C2 C#2 D2 D#2 E2 F2 F2 F2 G2 G#2 G#2 A2 A#2	376 340 17 17 29 491 230 491 140 163-165 138 157-156	Click Triangle Open BD Tight BD Tight Rim Shot f SD Normal 88 Claps SD Normal Tom 1 Floor f <i>HH2 Closed mf-ff (2)</i> Tom 1 Low f	Off Off Off Off Off Off Off Off	376 340 20 265 129 490 230 490	Click Triangle Open BD Dance 2 E.Tom FM Rim Shot f SD Rock	Off Off Off Off Off	376 340 20	Click Triangle Open BD Dance 2	Off Off Off	376 376	Click Click	Off Off
34 4 35 36 37 6 37 6 38 39 40 41 42 11 43 44 44 6 45 4 47 48	A#1 B1 C2 C#2 D2 D#2 E2 F2 F2 F2 F2 G2 G2 G#2 A2 A#2	340 17 129 491 230 491 140 163-165 138 157-156	Triangle Open BD Tight BD Tight Rim Shot f SD Normal 88 Claps SD Normal Tom 1 Floor f <i>HH2 Closed mf-ff (2)</i> Tom 1 Low f	Off Off Off Off Off Off Off Off	340 20 265 129 490 230 490	Triangle Open BD Dance 2 E.Tom FM Rim Shot f SD Rock	Off Off Off Off	340 20	Triangle Open BD Dance 2	Off Off	376	Click	Off
36 37 0 38 39 40 41 41 43 44 0 45 4 45 4 47 48	C2 C#2 D2 D#2 E2 F2 F2 G2 G#2 G#2 A2 A#2	17 129 491 230 491 140 163-165 138 157-156	BD Tight BD Tight Rim Shot f SD Normal 88 Claps SD Normal Tom 1 Floor f <i>HH2 Closed mf-ff (2)</i> Tom 1 Low f	Off Off Off Off Off Off	265 129 490 230 490	BD Dance 2 E.Tom FM Rim Shot f SD Rock	Off Off	-	BD Dance 2		7	DD D D	
37 0 38 39 0 40 41 41 41 42 1 43 44 0 45 44 0 45 44 45 46 4 43 48 48 48	C#2 D2 D#2 E2 F2 F2 G2 G2 G#2 A2 A#2	129 491 230 491 140 163-165 138 157-156	Rim Shot f SD Normal 88 Claps SD Normal Tom 1 Floor f <i>HH2 Closed mf-ff (2)</i> Tom 1 Low f	Off Off Off Off Off	129 490 230 490	Rim Shot f SD Rock	Off	265				BD Dry 3	Off
38 39 1 40 41 42 1 42 1 43 44 44 44	D2 D#2 E2 F2 G2 G2 G#2 A2 A#2	491 230 491 140 163-165 138 157-156	SD Normal 88 Claps SD Normal Tom 1 Floor f <i>HH2 Closed mf-ff (2)</i> Tom 1 Low f	Off Off Off Off	490 230 490	SD Rock			E.Tom FM	Off	17	BD Tight	Off
39 C 40 40 41 40 42 1 43 40 44 40 45 46 47 48	D#2 E2 F2 F#2 G2 G#2 A2 A#2	230 491 140 163-165 138 157-156	88 Claps SD Normal Tom 1 Floor f <i>HH2 Closed mf-ff (2)</i> Tom 1 Low f	Off Off Off	230 490			129	Rim Shot f	Off	130	Side Stick Dry	Off
40 41 42 1 43 4 44 0 45 4 46 4 47 48	E2 F2 F#2 G2 G#2 A2 A#2	491 140 163-165 138 157-156	SD Normal Tom 1 Floor f <i>HH2 Closed mf-ff (2)</i> Tom 1 Low f	Off Off	490	88 Claps	Off	491	SD Normal	Off	84	SD Dry 3	Off
41 42 1 43 4 44 0 45 4 46 4 47 48	F2 F#2 G2 G#2 A2 A#2	140 163-165 138 157-156	Tom 1 Floor f <i>HH2 Closed mf-ff (2)</i> Tom 1 Low f	Off			Off	230	88 Claps	Off	225	Claps 4	Off
42 1 43 4 44 0 45 4 46 4 47 48	F#2 G2 G#2 A2 A#2	163-165 138 157-156	HH2 Closed mf-ff (2) Tom 1 Low f			SD Rock	Off	491	SD Normal	Off	84	SD Dry 3	Off
43 44 6 44 6 4 6 45 4 6 4 47 48 6 4	G2 G#2 A2 A#2	138 157-156	Tom 1 Low f	1		E.Tom Real	Off	266	E.Tom Real	Off	145	Tom3 Floor	Off
44 0 45 4 46 4 47 4 48 4	G#2 A2 A#2	157-156		04		HH3 Open-Closed 2 (2)	1	174-171	HH3 Open-Closed 2 (2)	1	174	HH3 Open 2	1
45 46 4 46 4 47 48	A2 A#2		HH1 Foot mf-mp (2)	Off	266 178	E.Tom Real HH4 Foot	Off 1	266 178	E.Tom Real HH4 Foot	Off 1	145 178	Tom3 Floor HH4 Foot	Off 1
46 A 47 48	A#2	120	Tom 1 Low f	1 Off		E.Tom Real	Off	266	E.Tom Real	Off	178	Tom3 Low	Off
47 48		168	HH2 Open p	1	173	HH3 Open 1	1	173	HH3 Open 1	1	173	HH3 Open 1	1
48		136	Tom 1 Mid f	Off	266	E.Tom Real	Off	266	E.Tom Real	Off	144	Tom3 Low	Off
	C3	134	Tom 1 Hi f	Off	266	E.Tom Real	Off	266	E.Tom Real	Off	143	Tom3 Hi	Off
	C#3	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off
50	D3	134	Tom 1 Hi f	Off	1	E.Tom Real	Off	266	E.Tom Real	Off	143	Tom3 Hi	Off
51 C	D#3	207-209	Ride 20' mp-mf 2 (2)	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off	213	Ride Edge 2	Off
	E3	198	China	Off	202	Crash Reverse	Off	202	Crash Reverse	Off	433	Dbk Tky Open	Off
	F3	215	Ride Cup	Off	214	Ride Jazz	Off	214	Ride Jazz	Off	432	Dbk Tky Mute	Off
-	F#3	339	Tambourine Acc 2	Off	339	Tambourine Acc 2	Off	339	Tambourine Acc 2	Off	338	Tambourine Acc1	Off
	G3	201	Splash	Off		Splash	Off	201	Splash	Off	434	Dbk Tky Rim	Off
	G#3	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off	352	Cowbell	Off
	A3	196	Crash 1	Off	196	Crash 1	Off	196	Crash 1	Off	434	Dbk Tky Rim	Off
	A#3 B3	325	Vibraslap	Off	325	Vibraslap	Off Off	325	Vibraslap	Off Off	346	Cabasa Up	Off
	вз C4	206 298	Ride 20' mp 1 Bongo Hi Open	Off Off	213 298	Ride Edge 2 Bongo Hi Open	Off	213 298	Ride Edge 2 Bongo Hi Open	Off	436 439	Douf Dom Ak Douf Tek Ak2	Off Off
	C#4	290	Bongo Lo Open	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off	295	Bongo Lo Open	Off
	D4	290	Conga Hi MtSlap	Off	290	Conga Hi MtSlap	Off	290	Conga Hi MtSlap	Off	438	Douf Tek Ak1	Off
	D#4	288	Conga Hi Open	Off	288	Conga Hi Open	Off	288	Conga Hi Open	Off	298	Bongo Hi Open	Off
	E4	285	Conga Lo Open	Off	285	Conga Lo Open	Off	285	Conga Lo Open	Off	437	Douf Rim Ak	Off
65	F4	334	Timbale Hi Rim 2	Off	334	Timbale Hi Rim 2	Off	334	Timbale Hi Rim 2	Off	455	Tabla Dom	Off
66 I	F#4	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	329	Timbale Lo Open	Off	475	Darbuka D1	4
	G4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	458	Tabla Tak	4
	G#4	351	Agogo Bell	Off	351	Agogo Bell	Off	351	Agogo Bell	Off	456	Tabla Flam	Off
	A4	346	Cabasa Up	Off	346	Cabasa Up	Off	346	Cabasa Up	Off	457	Tabla Rim	Off
	A#4	346	Cabasa Up	Off	309	Maracas Push	Off	309	Maracas Push	Off	316	Tabla Na	Off
	B4	361	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	318	Tabla Tin	Off
	C5	361 308	Samba Whistle	2	361	Samba Whistle	2	361	Samba Whistle	2	445	Rek Dom Ak	Off
	C#5 D5	308	Guiro Short Guiro Long	3	308 307	Guiro Short Guiro Long	3	308 307	Guiro Short Guiro Long	3	448 447	Rik2 Rik1	Off Off
	D#5		Claves	Off		Claves	Off		Claves	Off	447	Rik3	Off
	E5	320	Woodblock 1	Off		Woodblock 1	Off	327	Woodblock 1	Off	449	Rik3	Off
	F5	327	Woodblock 1	Off		Woodblock 1	Off	327	Woodblock 1	Off	446	Rek Jingle	Off
	F#5	342	Cuica Hi	4	342	Cuica Hi	4	342	Cuica Hi	4	487	Tef2	Off
	G5	343	Cuica Lo	4	343	Cuica Lo	4	343	Cuica Lo	4	445	Rek Dom Ak	Off
	G#5	341	Triangle Mute	5		Triangle Mute	5	341	Triangle Mute	5	486	Tef1	Off
	A5	340	Triangle Open	5		Triangle Open	5	340	Triangle Open	5	448	Rik2	Off
	A#5	347	Cabasa Down	Off	347	Cabasa Down	Off	347	Cabasa Down	Off	449	Rik3	Off
	B5	355	Sleigh Bell	Off		Sleigh Bell	Off	355	Sleigh Bell	Off	446	Rek Jingle	Off
	C6	358	Marc Tree	Off		Marc Tree	Off	358	Marc Tree Castanet Single	Off	431	Bells Open	2
	C#6 D6	305 330	Castanet Single Timbale Lo Mute	Off 6	305 330	Castanet Single Timbale Lo Mute	Off 6	305 330	Castanet Single Timbale Lo Mute	Off 6	450 451	Sagat Half Open Sagat Close	2
	D#6	329	Timbale Lo Mute	6	330	Timbale Lo Mute	6	329	Timbale Lo Mute	6	451	Davul	Off
	E6	329	Stadium	Off		Stadium	Off	370	Stadium	Off	302	Djembe Open	3
	F6	5.0			570			570			302	Djembe Open	3
	F#6				1		1				433	Dbk Tky Open	3
	G6										431	Bells Open	5
	G#6						1				450	Sagat Half Open	5
93	A6										451	Sagat Close	5
	A#6										478	Davul	Off
	B6										10	BD Jazz	Off
96	C7										488	Tef3	Off

Multisamples

The following table lists all Pa1X Factory Multisamples available in ROM.

The	following table lists all Pa1X F	actor	y Multisamples available in RO	DM.		
0	AcousticPiano_L	41	Pipe Flute_L	82	Bariton Sax mf	123
1	AcousticPiano_R	42	Pipe Flute_R	83	Bariton Sax f	124
2	M1 Piano	43	Pipe Positive	84	Bariton Sax T1	125
3	El.GrandPiano	44	Pipe Mixture	85	Tenor SaxVibrato	126
4	E.P. FM 1	45	Pipe Full 1_L	86	Tenor Sax	127
5	E.P. FM 1LP	46	Pipe Full 1_R	87	Tenor Sax M1	128
6	E.P. FM 2	47	Pipe Full 2	88	Tenor Sax Expr.	129
7	E.P. Dyno Soft	48	Kalimba	89	Alto Sax Vibrato	130
8	E.P. Dyno SoftLP	49	MusicBox	90	Alto Sax p	131
9	E.P. StageHard	50	MusicBoxLP	91	Alto Sax mf	132
10	E.P. StageHardLP	51	Marimba	92	Alto Sax Growl	133
11	E.P. Wurly Soft	52	MarimbaLP	93	Alto Sax 01W	134
12	E.P. Wurly Hard	53	Xylophone	94	Soprano SaxVibr.	135
13	E.P. Pad 1LP	54	Vibraphone	95	Soprano Sax	136
14	E.P. Pad 2	55	VibraphoneLP	96	French Musette	137
15	Clav.	56	Celesta	97	Musette 1	138
16	Harpsichord	57	CelestaLP	98	Musette 1LP	139
17	GospelOrg.Slow_L	58	Glockenspiel	99	Musette 2	140
18	GospelOrg.Slow_R	59	GlockenspielLP	100	Accordion 16'	141
19	GospelOrg.Fast_L	60	Tubular Bell	101	Acc.16' OrigTune	142
20	GospelOrg.Fast_R	61	Log Drum	102	Accordion 8'	143
21	E.Organ Perc 1	62	SteelDr Hard	103	Acc. 8' OrigTune	144
22	E.Organ Perc 2	63	SteelDr HardLP	104	Accordion 4'	145
23	E.Organ Perc 3	64	Gamelan	105	Acc. 4' OrigTune	146
24	E.Organ 2'Perc	65	FM Bell	106	Accordion 1	147
25	M1 Organ 1	66	Flute	107	Accordion 2	148
26	M1 Organ 2	67	Flute Frull	108	Fisa Bassoon	149
27	Organ 1	68	Voice Flute	109	Fisa Clarinet	150
28	Organ 2	69	Jazz Flute	110	Bandoneon	151
29	Organ 2LP	70	Piccolo	111	Accordion Bass	152
30	E.Organ Jazz	71	Pan Flute	112	Acc.Noise KeyOn	153
31	Bx3&Perc 3rd	72	Shakuhachi	113	Acc.Noise KeyOff	154
32	E.Organ Vox	73	Shakuhachi Atk	114	Acc.Change Voic	155
33	E.Organ Soft	74	Bottle	115	Harmonica	156
34	E.Organ Full	75	Recorder	116	Harmonica Wah	157
35	E.Organ Dist	76	Ocarina	117	Highland B.Pipes	158
36	Rotary Org1	77	Clarinet	118	Highland Drones	159
37	Rotary Org1LP	78	M1 DoubleReed	119	Uilleann Pipes	160
38	Rotary Org2	79	Oboe	120	Bag Pipes	161
39	SuperBX3	80	English Horn	121	French Horn T1	162
40	SuperBX3LP	81	Bassoon	122	French Horn Ens.	163

Flugel Vibrato Flugel Horn M1 Tuba Trombone Vibrato Trombone1 mf Trombone1 ff Trombone2 Soft **Trombone2** Bright Trombone SlurUp **Trombone Fall Trumpet Medium** Trump. Overblown Trumpet Expr. **Trumpet Muted** Trumpet Wah Wah **Trumpet Doit Trumpet Fall** Brass Ens. 1 Brass Ens. 2 Brass Ens. 2LP Voice Choir Voice ChoirREV Voice Pop Ooh Voice Pop OohREV Voice Pop Ah Voice Pop AhREV Doo Voice Doo VoiceLP String Ens. String Ens.REV Pizzicato Ens. Violin Viola Cello&Contrabass Violin & Cello Pizzicato SteelGtr Pick p SteelGtr Pick mf SteelGtr pick f SteelGtr Mute SteelGtr Slide

164	A.Guitar Finger
165	A.Guitar Pick
166	A.Guitar Harmo.
167	Folk Guitar
168	Folk 12 Strings
169	Nylon Guitar mp
170	Nylon Guitar mf
171	Nylon Guitar ff
172	Nylon GuitarAtk
	A.Gtr HiStrings
174	A.Gtr 12Strings
175	A.Gtr Harmonics
176	A.Gtr Noise
177	Clean Gtr1 Stra
178	Clean Gtr1 Mute
179	Clean Gtr2 Stra
180	Clean Gtr2 Mute
181	Clean Gtr3 Tele
182	Clean Gtr4 Str p
183	Clean Gtr4 Str f
184	Clean Gtr4 Mute
185	Clean Gtr4 Dead
	Clean Gtr4 Slap
	Clean Gtr4 Slide
188	01
189	6
190	E.Gtr Sberg p2
191	0
192	
193	0
194	1
195	
196	E.Gtr Le Ghost1
197	E.Gtr Le Ghost2
198	81
199	E.Gtr Vintage mf
200	E.Gtr Solid p
201	E.Gtr Solid mf
202	E.Gtr Solid f
203	
204	E.Gtr Gliss Down
205	1
206	
207	
208	E.Gtr FretNoise

209	Funky Gtr 1 Stra	254
	Funky Gtr 2 Stra	255
	Jazz Guitar1	256
	Jazz Guitar2	257
	Jazz Guitar3 p	258
	Jazz Guitar3 mf	259
	Jazz Guitar3 f	260
	Pedal Steel Gtr	261
217	Reso Guitar	262
218	Overdrive Gtr	263
219	Dist Guitar	264
220	Dist Gtr1 Harmo.	265
221	Dist Gtr1 Mute	266
222	Dist Gtr2 Harmo.	267
223	Dist Gtr2 Mute1	268
224	Dist Gtr2 Mute2	269
225	Power Chord	27(
226	A.Bass1	271
227	A.Bass2 mf	272
228	A.Bass2 f	273
229	E.Bass1 Finger	274
230	E.Bass2 P.B.1	275
231	E.Bass2 P.B.2	276
232	E.Bass2 LH Stop	277
233	E.Bass2 RH Stop	278
234	E.Bass2 Harmo.	279
235	E.Bass3 p	280
236	E.Bass3 mf	281
237	E.Bass3 f Slap	282
238	E.Bass4 Pick	283
239	E.Bass4 Harmo.	284
240	E.Bass4 Slap	285
241	E.Bass4 SlapHar	286
242	E.Bass4 LH Mute	287
243	E.Bass4 RH Mute	288
244	E.Bass Gliss	289
245	E.Bass Noise1	290
246	E.Bass Noise2	291
247	Finger Bass 1	292
248	Finger Bass 1LP	293
249	Finger Bass 2	294
250	Finger Bass 2LP	295
251	Finger Bass 3	296
252	Pick Bass	297
253	Pick Bass LP	298

4	Thumb Bass	
5	SlapBassThumb	
6	SlapBassThumbLP	
7	SlapBass Pull	
8	Fretless Bass	
9	Bass Harmonics	
0	Bass HarmoLP	
1	Sitar	
2	Santur	
3	SanturLP	
4	Tambura	
5	TamburaLP	
6	Bouzouki	
7	BouzoukiLP	
8	Ukulele	
9	Oud	
0	ClarinetLP	
'1	Kanun	
2	Kanun Tremolo	
3	Nay	
4	·	
5	MandolinLP	
6	Banjo	
7	v	
8	ů –	
9		
0	Harp	
1	Mouth Harp 1	
2	Mouth Harp 2	
3	Mouth Harp 3	
4	Mouth Harp 4	
5	Mouth Harp 5	
6	Syn Bass Reso 1	
7	Syn Bass FM 1	
8	Syn Bass FM 1LP	
9	Syn Bass FM 2	
0	Syn Bass FM 2LP	
1	Syn Bass TB	
2	RB Saw Bass	
3	RB Square Bass	
4	Chrom Res	
5	DetunedSuper	
6	DetunedSuperREV	
17	Detuned PWM	
8	Detuned PWM REV	
U		

299 An.Strings 1 300 An.Strings 1 REV 301 An.Strings 2 302 An.Strings 2 REV 303 Analog Vintage 304 White Pad 305 White Pad REV 306 N1 Air Vox 307 N1 Air Vox REV 308 Ether Bell 309 Ether BellLP 310 Lore 311 Lore NT 312 Space Lore 313 Space Lore REV 314 Wave Sweep 1 315 Wave Sweep 2 316 Wave Sweep 3 317 Syn Ghostly 318 Syn Ghostly REV 319 Syn Air Pad 320 Syn Air Pad REV 321 Dream Str 322 Dream Str REV 323 Syn AirVortexREV 324 Syn Clicker 325 Syn Clicker REV 326 Cricket Spectrum 327 Noise 1 328 Noise 2 329 Swish Terra 330 Gamelan XEQ 331 Saw 1 332 Saw 2 333 Saw 3 334 Pulse 02% 335 Pulse 05% 336 Pulse 08% 337 Pulse 16% 338 Pulse 33% 339 Pulse 40% 340 Square 341 Square MG 342 Square JP 343 Triangle MG

344	Ramp	389	Tele Ring REV
345	Ramp MG	390	Scream
346	Sine	391	Punch
347	DWGS Syn Sine 1	392	Heart Beat
348	DWGS Syn Sine 2	393	Footstep 1
349	DWGS Organ 1	394	Footstep 2
350	DWGS Organ 2	395	Door Creak
351	DWGS Bell 1	396	Door Slam
352	DWGS Bell 2	397	Car Engine
353	DWGS Bell 3	398	Car Engine L
354	DWGS Bell 4	399	Car Stop
355	DWGS Clav.	400	Car Pass
356	DWGS Digi 1	401	Car Crash
357	DWGS Digi 2	402	Train
358	DWGS Wire 1	403	Train REV
359	DWGS Wire 2	404	Helicopter
360	DWGS Sync 1	405	Helicopter RI
361	DWGS Sync 2	406	Gun Shot
362	DWGS Sync 3	407	Machine Gun
363	Orchestra Hit	408	Machine Gun
364	Band Hit	409	Laser Gun
365	Impact Hit	410	Explosion
366	Brass Fall	411	Wind
367	Vox Wah Gtr	412	Timpani
368	Vibe Chord	413	Crash
369	Zap 1	414	Crash Reverse
370	Zap 2	415	Orchestra Cra
371	Stadium	416	Ride Jazz
372	Applause	417	Ride Edge 1
373	Birds 1	418	Ride Edge 2
374	Birds 1 REV	419	HiHat Closed
375	Birds 2	420	88 HiHat Ope
376	Crickets	421	88 Cowbell
377	Crickets REV	422	88 Tom
378	Church Bell	423	88 Conga
379	Church Bell REV	424	88 Crash
380	Thunder	425	Tom
381	Stream	426	Tom Brush
382	Bubble	427	Tom Process
383	Bubble REV	428	Electric Tom
384	Dog	429	Flexatone
385	Gallop	430	Tambourine
386	Gallop REV	431	Agogo Bell
387	Laughing	432	Marc Tree
388	Telephone Ring	433	Marc TreeLP

ele Ring REV	434	Cowbell
cream	435	Click
ınch	436	Temple Blocks
eart Beat	437	Orchestra BD
ootstep 1	438	Castanet
ootstep 2	439	Taiko
oor Creak	440	Djembe Open
oor Slam	441	Djembe Mute
ar Engine	442	Chinese Gong
ar Engine LP	443	Snare Ghost
ar Stop	444	RainStick
ar Pass	445	Empty
ar Crash		
ain		
ain REV		
elicopter		
elicopter REV		
un Shot		
achine Gun		
achine Gun REV		
iser Gun		
plosion		
/ind		
mpani		
rash		
rash Reverse		
rchestra Crash		
ide Jazz		
ide Edge 1		
ide Edge 2		
iHat Closed		
3 HiHat Open		
3 Cowbell		
3 Tom		
8 Conga		
3 Crash		
om		
om Brush		
om Process		
ectric Tom		
exatone		
mbourine		
gogo Bell		
arc Tree		

Drum Samples

The following table lists all Pa1X Factory Drum Samples available in ROM.

The	following table lists all Pa1X F	actor	y Drum Samples available in F	ROM.			
0	BD Acoustic 1 p	41	BD Klanger	82	SD Dry 1	123	SD Vintage6
1	BD Acoustic 1 mf	42	SD Wood 1 p	83	SD Dry 2	124	SD AmbiHop
2	BD Acoustic 1 f	43	SD Wood 1 mf	84	SD Dry 3	125	SD Brasser
3	BD Acoustic 2 mf	44	SD Wood 1 f	85	SD Ghost Roll	126	SD Chili
4	BD Acoustic 2 f	45	SD Wood 2 pp	86	SD Ghost p	127	SD Whopper
5	BD Dry 1	46	SD Wood 2 p	87	SD Ghost f	128	Rim Shot p
6	BD Dry 2	47	SD Wood 2 mf	88	SD Full Room	129	Rim Shot f
7	BD Dry 3	48	SD Wood 2 f	89	SD Off Center	130	Side Stick Dry
8	BD Normal	49	SD Piccolo 1 pp	90	SD Jazz Ring	131	Side Stick Amb
9	BD SoftRoom	50	SD Piccolo 1 p	91	SD Amb.Piccolo	132	DrumStick Hit
10	BD Jazz	51	SD Piccolo 1 mf	92	SD Paper	133	Tom 1 Hi p
11	BD Pillow	52	SD Piccolo 1 f	93	SD Brush Hit	134	Tom 1 Hi f
12	BD Woofer	53	SD Piccolo 2 pp	94	SD Brush Tap 1	135	Tom 1 Mid p
13	BD MondoKill	54	SD Piccolo 2 p	95	SD Brush Tap 2	136	Tom 1 Mid f
14	BD Terminator	55	SD Piccolo 2 mf	96	SD Brush Swirl	137	Tom 1 Low p
15	BD Tubby	56	SD Piccolo 2 f	97	SD Big Rock	138	Tom 1 Low f
16	BD Gated	57	SD Solid 1 p	98	SD Yowie	139	Tom 1 Floor p
17	BD Tight	58	SD Solid 1 mf	99	SD Processed	140	Tom 1 Floor f
18	BD Squash	59	SD Solid 1 f	100	SD Cracker Room	141	Tom 2 Hi
19	BD Dance 1	60	SD Solid 2 p	101	SD Dance	142	Tom 2 Floor
20	BD Dance 2	61	SD Solid 2 mf	102	SD House 1	143	Tom 3 Hi
21	BD Dance 3	62	SD Solid 2 f	103	SD House 2	144	Tom 3 Lo
22	BD House 1	63	SD Maple 1 pp	104	SD House 3	145	Tom 3 Floor
23	BD House 2	64	SD Maple 1 p	105	SD House 4	146	Tom 4 Hi
24	BD House 3	65	SD Maple 1 mp	106	SD Small	147	Tom 4 Lo
25	BD House 4	66	SD Maple 1 mf	107	SD Rap	148	Tom Processed
26	BD House 5	67	SD Maple 1 f	108	SD Noise	149	Tom Jazz Hi
27	BD Liquid	68	SD Maple 1 ff	109	SD Reverse	150	Tom Jazz Floor
28	BD Techno 1	69	SD Maple 2 pp	110	SD Hip 1	151	Tom Brush Hi
29	BD Techno 2	70	SD Maple 2 p	111	SD Hip 2	152	HH1 Closed pp
30	BD Hip 1	71	SD Maple 2 mp	112	SD Hip 3	153	HH1 Closed p
31	BD Hip 2	72	SD Maple 2 mf	113	SD Hip 4	154	HH1 Closed mf
32	BD Hip 3	73	SD Maple 2 f	114	SD Hip 5	155	HH1 Closed f
33	BD Hip 4	74	SD Maple 2 ff	115	SD Hip 6	156	HH1 Foot mp
34	BD Pop Kick	75	SD Brass 1 p	116	SD Ringy	157	HH1 Foot mf
35	BD Dance 99	76	SD Brass 1 mf	117	SD Tiny	158	HH1 Open mp
36	BD Ambient	77	SD Brass 1 f	118	SD Vintage1	159	HH1 Open mf
37	BD Amb.Crackle	78	SD Brass 2 p	119	SD Vintage2	160	HH2 Closed pp
38	BD Amb.Rocker	79	SD Brass 2 mf	120	SD Vintage3	161	HH2 Closed p
39	BD Pop 99	80	SD Brass 2 f	121	SD Vintage4	162	HH2 Closed mp
40	BD Deep 88	81	SD Roll	122	SD Vintage5	163	HH2 Closed mf

164	HH2 Closed f	209
165	HH2 Closed ff	210
166	HH2 Foot p	21
167	HH2 Foot f	212
168	HH2 Open p	213
169	HH2 Open f	214
170	HH3 Closed 1	21
171	HH3 Closed 2	21
172	HH3 Foot	217
173	HH3 Open 1	218
174	HH3 Open 2	219
175	HH3 Sizzle	220
176	HH4 Closed 1	22
177	HH4 Closed 2	222
178	HH4 Foot	223
179	HH4 FootOpen	224
180	HH4 Open	22
181	HH Old Close 1	220
182	HH Old Open 1	227
183	HH Old TiteClose	228
184	HH Old Close 2	229
185	HH Old Open 2	230
186	HH House Open 1	23
187	HH House Open 2	232
188	HH Hip	233
189	HH Alpo Close	234
190	Crash 15' Edge 1	23
191	Crash 15' Edge 2	23
192	Crash 17' Edge 1	23
193	Crash 17' Edge 2	23
194	Crash 19' Open 1	239
195	Crash 19' Open 2	240
196	Crash 1	24
197	Crash 2	242
198	China	243
199	Splash 8' Edge 1	24
200	Splash 8' Edge 2	24
201	Splash	24
202	Crash Reverse	247
203	Crash Dance 99	248
204	Crash DDD-1	249
205	Ride Dance 99	25
206	Ride 20' mp 1	25
207	Ride 20' mp 2	252
208	Ride 20' mf 1	253

209	Ride 20' mf 2
210	Ride Brush
211	Ride Rivet
212	Ride Edge 1
213	Ride Edge 2
214	Ride Jazz
215	Ride Cup
216	BD Orchestra
217	Orchestra Cymbal
218	Timpani
219	SD Orch. Roll
220	SD Orchestra
221	Finger Snaps
222	Claps 1
223	Claps 2
224	Claps 3
225	Claps 4
226	88 BD
227	88 SD
228	99 SD
229	88 Rimshot
230	88 Claps
231	88 HH Close
232	88 HH Open
233	99 HH Close
234	99 HH Open
235	88 Crash
236	88 Tom
237	88 Conga
238	88 Claves
239	88 Cowbell
240	88 Maracas
241	Syn. BD 1
242	Syn. BD 2
243	Syn. BD 3
244	Syn. BD 4
245	Syn. BD Buzz
246	Syn. SD 1
247	Syn. SD 2
248	Syn. SD 3
249	Syn. SD 4
250	Syn. Rim Click
251	Syn. HH Closed
252	Syn. HH Open
253	Syn. Bongo 1

254	Syn. Bongo 2
	Syn. Castanet
256	Syn. Shaker
257	Syn. Noise
	Syn. FX 1
259	Syn. FX 2
260	Syn. FX 3
261	Syn. FX 4
262	Syn. FX 5
263	Perc. Ahh
264	Boom
265	E.Tom FM
266	E.Tom Real
267	Rim House 1
268	Rim House 2
269	Zap 1
270	Zap 2
271	DJ Scratch 1
272	DJ Scratch 2
273	DJ Scratch 3
274	DJ Scratch 4
275	DJ Scratch 5
276	DJ Scratch 6
277	DJ Hit Rub
278	DJ Vocal Rub 1
279	DJ Vocal Rub 2
280	DJ BD Rub
281	DJ SD Rub
282	Orchestra Hit
283	Band Hit
284	Impact Hit
285	Conga Lo Open
286	0 1
287	Conga Lo Slap
288	Conga Hi Open
289	0
290	Conga Hi MtSlap
291	Conga Hi Slap 1
292	0 1
293	0
294	8
295	Bongo Lo Open
296	0 1
297	0
298	Bongo Hi Open

299 Bongo Hi Slap 300 Bongo Hi Stick1 301 Bongo Hi Stick2 302 Djembe Open 303 Djembe Mute 304 Djembe Slap 305 Castanet Single 306 Castanet Double 307 Guiro Long 308 Guiro Short 309 Maracas Push 310 Maracas Pull 311 Baya Open 312 Baya Ghe 313 Baya Mute 1 314 Baya Mute 2 315 Baya Mute 3 316 Tabla Na 317 Tabla Open 318 Tabla Tin 319 Tabla Mute 1 320 Tabla Mute 2 321 Tabla Mute 3 322 Taiko Open 323 Taiko Rim 324 Tsuzumi 325 Vibraslap 326 Claves 327 Woodblock 1 328 Woodblock 2 329 Timbale Lo Open 330 Timbale Lo Mute 331 Timbale Lo Rim 332 Timbale Hi Edge 333 Timbale Hi Rim 1 334 Timbale Hi Rim 2 335 Timbale Paila 336 Tambourine Push 337 Tambourine Pull 338 Tambourine Acc 1 339 Tambourine Acc 2 340 Triangle Open 341 Triangle Mute 342 Cuica Hi 343 Cuica Lo

344	Shaker 1	389	Door Slam	434	Dbk Tky Rim	479	Hollo 1
	Shaker 2		Car Engine		Djembe Bass		Hollo 2
	Cabasa Up		Car Stop		Douf Dom Ak		Kup 1
	Cabasa Down		Car Pass		Douf Rim Ak		Kup 2
348			Car Crash		Douf Tek Ak 1		Ramazan DVL 1
349	Caxixi Hard		Train		Douf Tek Ak 2		Ramazan DVL 2
	Caxixi Soft		Helicopter		Pand Open		Ramazan DVL 2
	Agogo Bell		Gun Shot 1		Pand Pattern 1		Tef 1
	Cowbell		Gun Shot 2		Pand Pattern 2		Tef 2
	Chacha Bell		Machine Gun		Pand Pattern 3		Tef 3
	Mambo Bell		Laser Gun		Pand Pattern 4		Empty
	Sleigh Bell		Explosion		Rek Dom Ak		SD Rock
	Rap Sleigh Bell		Thunder		Rek Jingle	491	
	Finger Cymbal		Wind		Rik 1	101	22 1101111
	Marc Tree		Stream		Rik 2		
	Marc Tree LP		Bubble		Rik 3		
	Flexatone		Church Bell		Sagat Half Open		
	Samba Whistle		Telephone Ring		Sagat Close		
	Chinese Gong	407		452			
	Metal Hit		Cricket Spectrum	453	Surdo L Open		
364	Yeah!	409	Air Vortex		Tabla Medium		
365	Yeah! Solo	410	Noise White	455	Tabla Dom		
366	Uhh	411	Noise FM Mod	456	Tabla Flam		
367	Hit It	412	Tubular	457	Tabla Rim		
368	Uhhhh Solo	413	Gamelan	458	Tabla Tak		
369	Comp Voice Noise	414	Tambura	459	Tambourine Mute 1		
370	Stadium	415	Gtr CutNois 1	460	Tambourine Mute 2		
371	Applause	416	Gtr CutNois 2	461	Tambourine Open		
372	Scream	417	Power Chord	462	Timbales		
373	Laughing	418	Fret Noise	463	Udu f open		
374	Footsteps 1	419	Dist. Slide 1	464	Alkis		
375	Footsteps 2	420	Dist. Slide 2	465	Bandir		
376	Click	421	E.Gtr Pick 1	466	Bandir Closed		
377	Bird 1	422	E.Gtr Pick 2	467	Bongo Roll		
378	Bird 2	423	Gtr Scratch 1	468	Darbuka 1 Tek 1		
379	Dog	424	Gtr Scratch 2	469	Darbuka 1 Tek 2		
380	Gallop	425	Amp Noise	470	Darbuka 1 DumOp		
381	Crickets	426	Space Lore	471	Darbuka 1 Closed		
382	Cat	427	Swish Terra	472	Darbuka 2		
383	Growl	428	Hand Drill	473	Darbuka 3		
384	Heart Beat	429	Mouth Harp	474	Darbuka 4		
385	Punch	430	Jingle Bell	475	Darbuka D 1		
386	Tribe	431	Bells Open	476	Darbuka D 2		
387	Rainstick	432	Dbk Tky Mute	477	Darbuka D 3		
388	Door Creak	433	Dbk Tky Open	478	Davul		

Performances

All Performances are user-editable. Use the following table as a model for your own Perfomance lists.

Note: You can remotely select Performances on the Pa1X, by sending it Bank Select MSB (CC#0), Bank Select LSB (CC#32) and Program Change messages on the Control channel (see "MIDI: MIDI In Channels" on page 232).

#	CC#0	CC#32	РС	Bank: 1	CC#0	CC#32	РС	Bank: 2	CC#0	CC#32	PC	Bank: 3	CC#0	CC#32	РС	Bank: 4
1	1	0	0		1	1	0		1	2	0		1	3	0	
2			1				1		1		1				1	
3			2		-		2		1		2				2	
4			3				3		1		3				3	
5			4				4				4				4	
6			5		1		5		1		5				5	
7			6		1		6		1		6				6	
8			7		1		7		1		7				7	
9			8		1		8		1		8				8	
10			9				9				9				9	
11			10				10		1		10				10	
12			11				11				11				11	
13			12				12				12				12	
14			13				13				13				13	
15			14				14				14				14	
16			15				15				15				15	
		CC#32	PC	Bank: 5		CC#32	PC	Bank: 6		CC#32	PC	Bank: 7		CC#32	PC	Bank: 8
1	CC#0	CC#32	0	Bank: 5	CC#0	CC#32	0	Bank: 6	CC#0	CC#32	0	Bank: 7	CC#0	CC#32	0	Bank: 8
2			0	Bank: 5			0	Bank: 6			0	Bank: 7			0 1	Bank: 8
2 3			0 1 2	Bank: 5			0 1 2	Bank: 6			0 1 2	Bank: 7			0 1 2	Bank: 8
2 3 4			0 1 2 3	Bank: 5			0 1 2 3	Bank: 6			0 1 2 3	Bank: 7			0 1 2 3	Bank: 8
2 3 4 5			0 1 2 3 4	Bank: 5			0 1 2 3 4	Bank: 6			0 1 2 3 4	Bank: 7			0 1 2 3 4	Bank: 8
2 3 4 5 6			0 1 2 3 4 5	Bank: 5			0 1 2 3 4 5	Bank: 6			0 1 2 3 4 5	Bank: 7			0 1 2 3 4 5	Bank: 8
2 3 4 5 6 7			0 1 2 3 4 5 6	Bank: 5			0 1 2 3 4 5 6	Bank: 6			0 1 2 3 4 5 6	Bank: 7			0 1 2 3 4 5 6	Bank: 8
2 3 4 5 6 7 8			0 1 2 3 4 5 6 7	Bank: 5			0 1 2 3 4 5 6 7	Bank: 6			0 1 2 3 4 5 6 7	Bank: 7			0 1 2 3 4 5 6 7	Bank: 8
2 3 4 5 6 7 8 9			0 1 2 3 4 5 6 7 8	Bank: 5			0 1 2 3 4 5 6 7 8	Bank: 6			0 1 2 3 4 5 6 7 8	Bank: 7			0 1 2 3 4 5 6 7 8	Bank: 8
2 3 4 5 6 7 8 9 10			0 1 2 3 4 5 6 7 8 9	Bank: 5			0 1 2 3 4 5 6 7 8 9	Bank: 6			0 1 2 3 4 5 6 7 8 9	Bank: 7			0 1 2 3 4 5 6 7 8 9	Bank: 8
2 3 4 5 6 7 8 9 10 11			0 1 2 3 4 5 6 7 8 8 9 10	Bank: 5			0 1 2 3 4 5 6 7 8 8 9 10	Bank: 6			0 1 2 3 4 5 6 7 8 9 9	Bank: 7			0 1 2 3 4 5 6 7 8 9 10	Bank: 8
2 3 4 5 6 7 8 9 10 11 11			0 1 2 3 4 5 6 7 8 9 9 10 11	Bank: 5			0 1 2 3 4 5 6 7 8 9 9 10 11	Bank: 6			0 1 2 3 4 5 6 7 8 9 9 10 11	Bank: 7			0 1 2 3 4 5 6 7 8 9 9 10 11	Bank: 8
2 3 4 5 6 7 8 9 10 11 12 13			0 1 2 3 4 5 6 7 7 8 9 10 11 11 12	Bank: 5			0 1 2 3 4 5 6 7 8 9 10 11 11 12	Bank: 6			0 1 2 3 4 5 6 7 8 9 9 10 11 12	Bank: 7			0 1 2 3 4 5 6 7 8 9 10 11 12	Bank: 8
2 3 4 5 6 7 8 9 10 11 12 13 14			0 1 2 3 4 5 6 7 8 9 10 11 11 12 13	Bank: 5			0 1 2 3 4 5 6 7 8 9 10 11 11 12 13	Bank: 6			0 1 2 3 4 5 6 7 8 9 10 11 12 13	Bank: 7			0 1 2 3 4 5 6 7 8 9 10 11 12 13	Bank: 8
2 3 4 5 6 7 8 9 10 11 12 13			0 1 2 3 4 5 6 7 7 8 9 10 11 11 12	Bank: 5			0 1 2 3 4 5 6 7 8 9 10 11 11 12	Bank: 6			0 1 2 3 4 5 6 7 8 9 9 10 11 12	Bank: 7			0 1 2 3 4 5 6 7 8 9 10 11 12	Bank: 8

	CC#0	CC#32	PC	Bank: 9	CC#0	CC#32	PC	Bank: 10	CC#0	CC#32	PC	Bank: 11	CC#0	CC#32	PC	Bank: 12
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2		-	1			-	1				1				1	
3		-	2			-	2				2				2	
4		-	3			-	3				3				3	
5		-	4			-	4		-		4				4	
6		-	5				5				5				5	
7		-	6			-	6				6				6	
8		-	7				7				7				7	
9			8				8				8				8	
10			9				9				9				9	
11			10				10				10				10	
12			11				11				11				11	
13			12				12				12				12	
14			13				13				13				13	
15			14				14				14				14	
16			15				15				15				15	
		CC#32	PC	Bank: 13		CC#32	PC	Bank: 14	CC#0	CC#32	PC	Bank: 15		CC#32	PC	Bank: 16
1	1	12	0		1	13	0		1	14	0		1	15	0	
2			1				1				1				1	
3		-	2			-	2				2				2	
4		-	4			-	4		-		3				3	
5		-	5			-	5		-		5				4	
6		-	6			-	6				6				6	
7		-	7			-	7				7				7	
8		-	8			-	8		-		8				8	
9		-	9			-	9		-		9				9	
10			10			-	10				10				10	
11 12		-	11				11				11				11	
12		-	12			-	12		-		12				12	
14			13			-	13		-		13				13	
15		-	14				14				14				14	
16		-	15			-	15				15				15	
	CC#0	CC#32	PC	Bank: 17	CC#0	CC#32	PC	Bank: 18	CC#0	CC#32	PC	Bank: 19	CC#0	CC#32	PC	Bank: 20
1	1	16	0		1	17	0		1	18	0		1	19	0	
2			1				1				1				1	
3			2				2				2				2	
4			3				3				3				3	
5			4				4				4				4	
6			5				5				5				5	
7			6				6				6				6	
8			7				7		1		7				7	
9			8				8				8				8	
10			9				9		1		9				9	
11			10				10		1		10				10	
12			11				11]		11				11	
13			12				12]		12				12	
14			13				13				13				13	
15			14				14				14				14	
16			15				15				15				15	
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Pads

HIT - Drum # **HIT - Percussion** # HIT - World 1 # Hit - World 2 # HIT - Orchestral # HIT - Synth&Pad 1 88 Cowbell 1 Agogo 1 1 Baja 1 1 Kup 1 1 Brass Fall 1 Cosmic 2 88 Crash 2 2 Baja 2 2 Kup 2 2 Orch.Cymbal 1 2 VCF Modulation Agogo 2 3 Orch.Cymbal 2 Planet Lead China 3 Castanet 1 3 China Gong 3 Kup 3 3 3 4 4 Castanet 2 Darbuka 1 Kup 4 4 Orch. Hit Brightness Crash 1 4 Δ 4 5 Crash 2 5 Conga Hi 5 Darbuka 2 5 Ramazan 1 5 Orch. Snare 5 Crystal 6 Rev. Cymbal 6 Conga Low 6 Darbuka 3 Ramazan 2 6 Orch. Sn. Roll 6 New Age Pad 6 7 Ride 1 7 Conga Mute 7 Darbuka 4 7 Ramazan 3 7 Timpani 1 7 **Fifths Lead** 8 Ride 2 8 Conga Slap 8 Darbuka 5 Rek Dom Ak 8 Timpani 2 8 Calliope 8 Rik 1 9 Caribbean 9 **Ride Bell** 9 Cowbell 9 Darbuka 6 9 9 Timpani 3 10 Rik 2 Splash 10 Cuica 1 10 Darbuka 7 10 10 Timpani 4 10 Rezbo 11 Sticks 11 Cuica 2 Darbuka 8 Rik 3 Orchestra Tutti **Digital Polisix** 11 11 11 11 Motion Raver 12 Rim-Shot 12 Jingle Bell 12 Davul 12 Sagat 1 12 12 Long Guiro Douf Rim Ak 13 13 Hi Tom Flam 13 13 13 Sagat 2 13 Moving Bell 14 Mid Tom Flam 14 Short Guiro 14 Dragon Gong 14 Tef 1 14 14 Elastick Pad 15 Low Tom Flam 15 **Open Bells** 15 Hollo 1 15 Tef 2 15 15 Rave 16 Tom Flam End 16 Rain Stick 16 Hollo 2 16 Tef 3 16 16 Dance Remix 17 Drum Single A 17 Tamb. Acc. 1 17 17 Tef 4 17 17 Vintage Sweep 18 Drum Single B 18 Tamb. Acc. 2 18 18 Tef 5 18 You Decide 18 Drum Single C 19 19 19 19 19 Tamb. Open 19 Tef 6 Drum Single D 20 20 20 20 Tamb. Push 20 20 21 Drum Sing.HouseA 21 Timbale Hi 21 21 21 21 22 22 Drum Sing.HouseB Timbale Low 22 22 22 22 23 Drum Sing.HouseC Timbale Rim 1 23 23 23 23 23 24 Drum Sing.HouseD Timbale Rim 2 24 24 24 24 24 25 Drum Kit A 25 Triangle 1 25 25 25 25 26 Drum Kit B 26 Triangle 2 26 26 26 26 27 Drum Kit C 27 Vibra Slap 27 27 27 27 28 Drum Kit D 28 Whistle 1 28 28 28 28 29 Drum Kit E 29 Whistle 2 29 29 29 29 30 Drum Kit F 30 Windchimes 1 30 30 30 30 31 31 Windchimes 2 31 31 31 31 32 32 Windchimes 3 32 32 32 32

You can assign the following Hits or Sequences to the four Pads. Older sounds might be still assigned to the Pads when loading musical resources generated with an older operating system (see the following section).

#	HIT - Voice	#	HIT - Blocks	#	HIT - Misc&SFX 1	#	HIT - Misc&SFX 2	#	SEQ - Drum	#	SEQ - Percussion
1	Aah !	1	Blk Funk 1 A	1	Applause	1	Bubble	1	Drum DrumBasSolo	1	Perc FingerSnap
2	Hit it !	2	Blk Funk 1 B	2	Bird 1	2	Car Crash	2	Drum Snare Solo	2	Perc Triang.+HH
3	Laughing	3	Blk Funk 1 C	3	Bird 2	3	Car Engine	3	Drum 8 Bt Easy	3	Perc Latin 1
4	Scream	4	Blk Funk 1 D	4	Cat	4	Car Pass	4	Drum 8 Bt Medium	4	Perc Latin 2
5	Uuh !	5	Blk Funk 2 A	5	Church Bell	5	Car Stop	5	Drum Rock 1	5	Perc Latin 3
6	Yeah ! 1	6	Blk Funk 2 B	6	Crickets	6	Explosion	6	Drum Rock 2	6	Perc Mix
7	Yeah ! 2	7	Blk Funk 2 C	7	Dist. Slide 1	7	Gun Shot	7	Drum Brush 1 æ	7	Perc Soft
8		8	Blk Funk 2 D	8	Dist. Slide 2	8	Helicopter	8	Drum Brush 2 æ	8	Perc Conga
9		9	Blk Organ A	9	Dog	9	Jet Plane	9	Drum Disco 1	9	Perc Conga+Ride
10		10	Blk Organ B	10	Door Creak	10	Laser Gun	10	Drum Disco 2	10	Perc Conga+Mix
11		11	Blk Organ C	11	Door Slam	11	Machine Gun	11	Drum Disco 3	11	Perc Conga+Bongo
12		12	Blk Organ D	12	Foosteps 1	12	Phone Ring	12	Drum Disco 4	12	Perc Conga+Tamb.
13		13	Blk Choir A	13	Foosteps 2	13	Punch	13	Drum Funk 1	13	Perc Shaker
14		14	Blk Choir B	14	Heart Beat	14	River	14	Drum Funk 2	14	Perc Shak+Tamb 1
15		15	Blk Choir C	15	Horse Gallop	15	Seashore	15	Drum Brush Shuff	15	Perc Shak+Tamb 2
16		16	Blk Choir D	16	Lion	16	Siren	16	Drum Latin	16	Perc Shak+Cong 1
17		17		17	Scratch 1	17	Starship	17	Drum Progressiv1	17	Perc Shak+Cong 2
18		18		18	Scratch 2	18	Thunder	18	Drum Progressiv2	18	Perc Tambourine1
19		19		19	Scratch 3	19	Train	19	Drum Fill 1	19	Perc Tambourine2

20	20	20	Scratch 4	20	Wind	20	Drum Fill 2	20	Perc Tamb+Conga1
21	21	21	Scratch 5	21		21	Drum Break	21	Perc Tamb+Conga2
22	22	22	Scratch 6	22		22	Drum End	22	Perc Guiro+Bongo
23	23	23	Stadium	23		23		23	Perc Cowbel+Tamb
24	24	24		24		24		24	Perc æ
25	25	25		25		25		25	Perc 6/8
26	26	26		26		26		26	
27	27	27		27		27		27	
28	28	28		28		28		28	
29	29	29		29		29		29	
30	30	30		30		30		30	
31	31	31		31		31		31	
32	32	32		32		32		32	

#	SEQ - Groove	#	SEQ - Bass	#	SEQ - Piano	#	SEQ - Guitar	#	SEQ - Orchestral	#	SEQ - Solo
1	Grv Drum 1	1	Bass Pick Easy	1	Piano Accomp 1	1	Gtr Steel Strum1	1	Timpani Roll 1	1	Solo Marimba
2	Grv Drum 2	2	Bass Pick Med.	2	Piano Accomp 2	2	Gtr Steel Strum2	2	Timpani Roll 2	2	Solo Kalimba 1
3	Grv Brush	3	Bass Pick Busy	3	Piano Accomp 3	3	Gtr Steel Strum3	3	Orch. Tutti 1	3	Solo Kalimba 2
4	Grv Jazzy	4	Bass Finger Easy	4	Piano Accomp 4	4	Gtr Steel Strum4	4	Orch. Tutti 2	4	Solo Steel Drums
5	Grv Latin	5	Bass Finger Med.	5	Piano Accomp 5	5	Gtr Steel Strum5	5	Orch. Tutti 3	5	Solo Vibes
6	Grv HipHop 1	6	Bass Finger Walk	6	Piano Accomp 6	6	Gtr Steel Strum6	6	Orch. Tutti 4	6	Solo Gtr Dist.
7	Grv HipHop 2	7	Bass Latin	7	Piano Accomp 7	7	GtSteelStrum æ	7	Orch. Harp 1	7	Solo Slide Steel
8	Grv HipHop 3	8	Bass Slap	8	Piano Accomp 8	8	Gtr Steel Arp 1	8	Orch. Harp 2	8	Solo Banjo
9	Grv HipHop 4	9	Bass Digital	9	Piano Accomp 9	9	Gtr Steel Arp 2	9	Orch. Harp 3	9	Solo Violin
10	Grv HipHop 5	10	Bass Synth	10	Piano Arpeg. 1	10	Gtr Steel Arp 3	10	Orch. Harp 4	10	Solo Harpsi æ
11	Grv HipHop 6	11	Bass DigiFilter1	11	Piano Arpeg. 2	11	GtrSteel Arp 6/8	11	Orch. Harp 5	11	Solo Harpsi 4/4
12	Grv Funk 1	12	Bass DigiFilter2	12	Piano Arp 1 æ	12	Gtr Steel Mute 1	12	French Horns 1	12	Solo Gtr Funk
13	Grv Funk 2	13	Bass DigiFilter3	13	Piano Arp 2 æ	13	Gtr Steel Mute 2	13	French Horns 2	13	Solo Piano 1
14	Grv Funk 3	14		14	Piano Arp Down	14	Guitar Country	14	Strings 1	14	Solo Piano 2
15	Grv House 1	15		15	Piano Arp Up	15	Gtr Nylon Strum1	15	Strings 2	15	Solo Piano 3
16	Grv House 2	16		16	Piano Rhythm 1/8	16	Gtr Nylon Strum2	16	Strings 3	16	Solo Piano 4
17	Grv Analog	17		17	Piano Rhythm1/8T	17	Gtr Nylon Strum3	17	Strings 4	17	Solo Synth 1
18	Grv Garage 1	18		18	Piano Latin Rock	18	Gtr Nylon Strum4	18	Strings 5	18	Solo Synth 2
19	Grv Garage 2	19		19	Piano Salsa 1	19	Gtr Nylon Strum5	19	Strings 6	19	Solo Synth 3
20	Grv Dance 1	20		20	Piano Salsa 2	20	Gtr Nylon Strum6	20	Strings 7	20	Solo Synth 4
21	Grv Dance 2	21		21	Pno GlissDwnWhit	21	Gtr Nylon Arp 1	21		21	Solo Synth 5
22	Grv Techno 1	22		22	Pno GlissUpWhite	22	Gtr Nylon Arp 2	22		22	Solo Synth 6
23	Grv Techno 2	23		23	Pno GlissDwnBlak	23	Gtr Nylon Arp 3	23		23	Solo Guitar 1
24		24		24	Pno GlissUpBlack	24	GtrNylon Arp æ	24		24	Solo Guitar 2
25		25		25	Honky End	25		25		25	Solo Guitar 3
26		26		26		26		26		26	
27		27		27		27		27		27	
28		28		28		28		28		28	
29		29		29		29		29		29	
30		30		30		30		30		30	
31		31		31		31		31		31	
32		32		32		32		32		32	

#	SEQ - Synth&Pad	#	SEQ - Misc&SFX	#	#	#	#	
1	Synth Seq 1	1	Military 1	1	1	1	1	
2	Synth Seq 2	2	Military 2	2	2	2	2	
3	Synth Seq 3	3	Military 3	3	3	3	3	
4	Synth Seq 4	4	Military 4	4	4	4	4	
5	Synth Seq 5	5	Horror 1	5	5	5	5	
6	Synth Seq 6	6	Horror 2	6	6	6	6	
7	Synth Seq 7	7	Horror 3	7	7	7	7	
8	Synth Seq 8	8	Horror 4	8	8	8	8	
9	Synth Seq 9	9	Lullaby 1	9	9	9	9	
10	Synth Seq 10	10	Lullaby 2	10	10	10	10	

11	Synth Seq 11	11	Nature - River	11	11	11	11	
12	Synth Portam. 1	12	Nature - Storm	12	12	12	12	
13	Synth Portam. 2	13	Metronome æ	13	13	13	13	
14	Synth Portam. 3	14	PreCount æ	14	14	14	14	
15	Synth Portam. 4	15	Metronome 4/4	15	15	15	15	
16	Synth Filter 1	16	PreCount 4/4	16	16	16	16	
17	Synth Filter 2	17	PreCount 4/4 Dbl	17	17	17	17	
18	Synth Pad Panned	18	Toccata	18	18	18	18	
19	Synth Master Pad	19	5th Intro	19	19	19	19	
20	Synth Dark Pad	20	Primavera	20	20	20	20	
21		21	Circus 1	21	21	21	21	
22		22	Circus 2	22	22	22	22	
23		23		23	23	23	23	
24		24		24	24	24	24	
25		25		25	25	25	25	
26		26		26	26	26	26	
27		27		27	27	27	27	
28		28		28	28	28	28	
29		29		29	29	29	29	
30		30		30	30	30	30	
31		31		31	31	31	31	
32		32		32	32	32	32	

List of sounds assignable to the Pads in OS versions previous to 2.0

With OS versions prior to 2.0, you could assign the following sounds to the Pads. When loading older data, these sounds could still be assigned to the Pads. You can replace them with any of the Hit or Sequence resources listed in the previous section.

	SOUND NAME		SOUND NAME		SOUND NAME		SOUND NAME
1	ChinaGong	36	DistSlid2	71	Darbuka1	106	HeartBeat
2	Crash 1	37	Sticks	72	Darbuka2	107	Footstep1
3	Crash 2	38	Cowbell	73	Darbuka3	108	Footstep2
4	88 Crash	39	Agogo 1	74	Darbuka4	109	Stadium
5	Ride 1	40	Agogo 2	75	Darbuka5	110	DoorCreak
6	Ride 2	41	Whistle 1	76	Darbuka6	111	DoorSlam
7	China	42	Whistle 2	77	Darbuka7	112	CarEngine
8	Ride Bell	43	Sh. Guiro	78	Darbuka8	113	Car Stop
9	Splash	44	LongGuiro	79	DoufRimAk	114	Car Pass
10	RevCymbal	45	Cuica 1	80	Tef 1	115	Car Crash
11	DragonGng	46	Cuica 2	81	Tef 2	116	Crickets
12	OrchCymb1	47	Triangle1	82	Tef 3	117	Train
13	OrchCymb2	48	Triangle2	83	Tef 4	118	Helicopt
14	OrcSdRoll	49	88Cowbell	84	Tef 5	119	Gun Shot
15	OrchSnare	50	TimbLow	85	Tef 6	120	MachinGun
16	Timpani 1	51	TimbHi	86	Rik 1	121	Laser Gun
17	Timpani 2	52	TimbRim1	87	Rik 2	122	Explosion
18	Timpani 3	53	TimbRim2	88	Rik 3	123	Dog
19	Timpani 4	54	CongaLow	89	RekDomAk	124	H. Gallop
20	Orch. Hit	55	CongaHi	90	OpenBells	125	Birds 1
21	BrassFall	56	CongaSlap	91	Sagat 1	126	Birds 2
22	Ch. Bell	57	CongaMute	92	Sagat 2	127	Thunder
23	JingleBel	58	Tamb.Acc1	93	Davul	128	Sea Shore
24	WindChim1	59	Tamb.Acc2	94	Ramazan 1	129	River
25	WindChim2	60	Tamb.Push	95	Ramazan 2	130	Bubble
26	WindChim3	61	TambOpen	96	Ramazan 3	131	Cat
27	VibraSlap	62	Castanet1	97	Kup 1	132	Lion
28	RainStick	63	Castanet2	98	Kup 2	133	PhoneRing
29	Scratch 1	64	Aah !	99	Kup 3	134	Applause
30	Scratch 2	65	Uuh !	100	Kup 4	135	Wind
31	Scratch 3	66	Yeah ! 1	101	Baya 1	136	Starship
32	Scratch 4	67	Yeah ! 2	102	Baya 2	137	Jetplane
33	Scratch 5	68	Hit It !	103	Laughing	138	Siren
34	Scratch 6	69	Hollo 1	104	Scream	139	Cosmic
35	DistSlid1	70	Hollo 2	105	Punch		

MIDI Setup

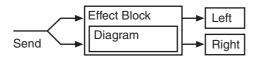
		Default	Master Kbd	Sequencer1	Sequencer 2	Accordion 1	Accordion 2	Accordion 3	Ext. Seq
	1	\$1_Tr 1	Global	\$1_Tr 1	S2_Tr 1	Global	Upp1	Upp1	\$1_Tr 1
	2	\$1_Tr 2	Control	S1_Tr 2	S2_Tr 2	Lower	Lower	Lower	S1_Tr 2
	3	\$1_Tr 3	-	\$1_Tr 3	S2_Tr 3	Bass	-	Bass	S1_Tr 3
	4	S1_Tr 4	-	S1_Tr 4	S2_Tr 4	-	Upp2	Upp2	S1_Tr 4
	5	\$1_Tr 5	-	\$1_Tr 5	S2_Tr 5	-	Upp3	Upp3	S1_Tr 5
	6	S1_Tr 6	-	S1_Tr 6	S2_Tr 6	-	-	-	S1_Tr 6
	7	\$1_Tr 7	-	S1_Tr 7	S2_Tr 7	-	-	-	S1_Tr 7
VIDI IN	8	S1_Tr 8	-	S1_Tr 8	S2_Tr 8	-	-	-	S1_Tr 8
Channel	9	S1_Tr 9	-	S1_Tr 9	S2_Tr 9	-	Bass	-	S1_Tr 9
	10	S1_Tr 10	-	S1_Tr 10	S2_Tr 10	Drum	Drum	Drum	\$1_Tr 10
	11	\$1_Tr 11	-	S1_Tr 11	S2_Tr 11	Perc	Perc	Perc	S1_Tr 11
	12	\$1_Tr 12	-	\$1_Tr 12	S2_Tr 12	Acc1	Acc1	Acc1	S1_Tr 12
	13	\$1_Tr 13	-	\$1_Tr 13	S2_Tr 13	Acc2	Acc2	Acc2	\$1_Tr 13
	14	S1_Tr 14	-	S1_Tr 14	S2_Tr 14	Acc3	Acc3	Acc3	\$1_Tr 14
	15	\$1_Tr 15	-	\$1_Tr 15	S2_Tr 15	Acc4	Acc4	Acc4	\$1_Tr 15
	16	\$1_Tr 16	-	S1_Tr 16	S2_Tr 16	Acc5	Acc5	Acc5	\$1_Tr 16
	1	1 Upp1	Upp1	\$1_Tr 1	S2_Tr 1	Upp1	\$1_Tr 1	S2_Tr 1	Upp. 1
MIDI OUT	2	Upp2	Upp2	\$1_Tr 2	S2_Tr 2	Upp2	\$1_Tr 2	S2_Tr 2	-
	3	Upp3	Upp3	\$1_Tr 3	S2_Tr 3	Upp3	\$1_Tr 3	\$2_Tr 3	-
	4	Lower	Lower	\$1_Tr 4	S2_Tr 4	Lower	S1_Tr 4	S2_Tr 4	-
	5	-	-	\$1_Tr 5	\$2_Tr 5	-	\$1_Tr 5	\$2_Tr 5	-
	6	-	-	\$1_Tr 6	S2_Tr 6	-	\$1_Tr 6	S2_Tr 6	-
	7	-	-	\$1_Tr 7	S2_Tr 7	-	\$1_Tr 7	S2_Tr 7	-
	8	-	-	\$1_Tr 8	S2_Tr 8	-	\$1_Tr 8	S2_Tr 8	-
Channel	9	Bass	Bass	\$1_Tr 9	S2_Tr 9	Bass	\$1_Tr 9	S2_Tr 9	-
	10	Drum	Drum	S1_Tr 10	S2_Tr 10	Drum	S1_Tr 10	S2_Tr 10	-
	11	Perc	Perc	\$1_Tr 11	S2_Tr 11	Perc	S1_Tr 11	S2_Tr 11	-
	12	Acc1	Acc1	\$1_Tr 12	S2_Tr 12	Acc1	\$1_Tr 12	S2_Tr 12	-
	13	Acc2	Acc2	\$1_Tr 13	S2_Tr 13	Acc2	S1_Tr 13	S2_Tr 13	-
	14	Acc3	Acc3	S1_Tr 14	S2_Tr 14	Acc3	S1_Tr 14	S2_Tr 14	-
	15	Acc4	Acc4			Acc4			-
	16	Acc5	Acc5			Acc5			-
Chord 1 Char	ın.	Off	1	Off	Off	2	2	2	Off
Chord 2 Char	ın.	Off	Off	Off	Off	3	3	Off	Off
Harm. Chann	-	1	1	1	1	2	2	2	Off
Harm. Octave	9	1	1	1	1	-1	-1	-1	1
larm. Range	н	G9	G9	G9	G9	G9	G9	G9	G9
larm. Range	LO	C -1	C -1	C -1	C -1	C -1	C -1	C -1	C -1
MIDI IN Veloo	city	Normal	Normal	Normal	Normal	110	110	Normal	Normal
MIDI IN Oct.	Trp.	\checkmark	√	\checkmark	\checkmark	\checkmark	\checkmark		\checkmark
MIDI IN Mute	e/Un.	V	√	-	-	1	\checkmark	V	\checkmark
Jpper Oct. Tr	р.	0	0	0	0	0	0	0	0
ower Oct. Ti	rp.	0	0	0	0	0	0	0	0

Effects

Pa1X is equipped with four powerful Effect Processors. You can send them the internal tracks, or any signal entering the Audio Inputs.

Diagrams

The following instructions show the signal path diagram for each of the effect types. The signal coming from the tracks (Send) is mono. Before entering an effect processor, it is split in two "wires" (Left and Right), and processed in stereo. The signal is then output in stereo from the effect processor, and sent to the Mix output (Left&Right, the heaphones or the internal speakers).



Dynamic Modulation sources

When the D_{mer} symbol is encoutered, a Dynamic Modulation can be applied to the corresponding parameter. The following table shows the available modulation sources.

Modulation source	Note
Off	No modulation
Gate1	
Gate1+Dmpr	
Gate2	
Gate2+Dmpr	
Note Nr	Note Number
Velocity	Note Velocity
AfterTouch	After Touch
JS X	Joystick Left/Right
JS+Y: CC#01	Joystick Forward
JS-Y: CC#02	Joystick Backward
MIDI(CC#04)	
MIDI(CC#12)	
MIDI(CC#13)	
MIDI(CC#16)	
MIDI(CC#18)	
MIDI(CC#17)	
MIDI(CC#19)	
MIDI(CC#20)	
MIDI(CC#21)	
Damper: #64	
Prta.SW: #65	Portamento Switch

Modulation source	Note
Sostenu: #66	Sostenuto Pedal
MIDI(CC#80)	
MIDI(CC#81)	
MIDI(CC#82)	
MIDI(CC#83)	
Tempo	

Some notes on the Gate parameters follow.

Gate1, Gate1+Dmpr (Gate1+Damper)

The effect is at maximum during note-on, and will stop when all keys are released. With **Gate1 + Dmpr**, the effect will remain at maximum even after the keys are released, as long as the damper (sustain) pedal is pressed.

						Gate	e1,Gate1+Dmpr
	1	2	1	3	2	3	Dmpr
Damper P	edal			,			·
Gate1							∔ On ▼ Off
Gate1+Dn	npr						
							Time

Gate2, Gate2+Dmpr (Gate2+Damper)

This is essentially the same as for Gate 1 or Gate 1 + Dmpr. However when **Gate 2** or **Gate 2** + **Dmpr** are used as a dynamic modulation source for the EG of 022: St. Envelope Flanger etc. or the AUTOFADE of 027: Stereo Vibrato, a trigger will occur at each note-on. (In the case of Gate 1 and Gate 1 + Dmpr, the trigger occurs only for the first note-on.)

Note	1	2	1	3	2		te2,Gate2+Dmpr Dmpr
Damper F	edal			,			
Gate2						1	∔ On ▼ Off
Gate2+Dr	npr						
							Time

Filter/Dynamic

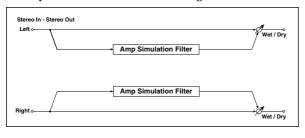
Filter and dynamics control effects

000: No Effect

Select this option when you do not use any effects. When this option is selected, the effect is muted.

001: Amp. Simulation

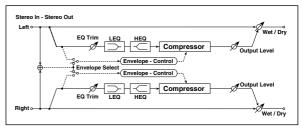
This effect simulates the frequency response characteristics of guitar amplifiers. It is also effective for organ and drum sounds.



a	Amplifier Type Selects the type of guitar amplifier	Solid State, British (EL84), American (6L6)
	Wet/Dry Dry, 1: Sets the balance between the effect and dry sounds	9999:1, Wet D
b	Src Selects the modulation source of the effect balance	OffTempo
	Amt Sets the modulation amount of the effect balance	-100+100

002: Compressor

This effect compresses the input signal to regulate the level and give a "punchy" effect. It is useful for guitar, piano, and drum sounds. This is a stereo compressor. You can link left and right channels, or use each channel separately.



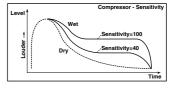
a	Envelope Select L/R Mix, L/R Individually Determines whether the left and right channels are linked or used separately				
b	Sensitivity Sets the sensitivity	1100 জ্ঞ			
с	Attack Sets the attack level	1100 IS			
d	EQ Trim Sets the EQ input level	0100			
	Pre LEQ Gain [dB] Sets the gain of Low EQ	-15.0+15.0dB			
e	Pre HEQ Gain [dB] Sets the gain of High EQ	-15.0+15.0dB			
	Output Level Sets the output level of the compressor	0100 ®, D ****			
f	Src OffTempo Selects the modulation source for the compressor output level				
	Amt Sets the modulation amount of the compressor output I	–100+100 evel			
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323				
g	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323				
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100			

a: Envelope Select

This parameter selects whether the left and right channels are linked to control both signals simultaneously, or whether each channel is controlled independently.

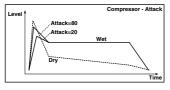
b: Sensitivity, f: Output Level

The "Sensitivity" parameter sets the sensitivity of the compressor. If this parameter is set to a higher value, lower level sounds will be boosted. With a higher Sensitivity, the overall volume level is higher. To adjust the final volume level, use the "Output Level" parameter.



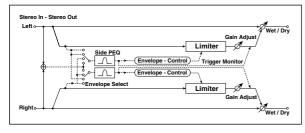
c: Attack

This parameter controls the attack level.



003: Limiter

The Limiter regulates the input signal level. It is similar to the Compressor, except that the Limiter compresses only signals that exceed the specified level to lower unnecessary peak signals. The Limiter applies a peaking-type EQ to the trigger signal (which controls the degree of the Limiter effect), allowing you to set any band width to be covered. This effect is a stereo limiter. You can link left and right channels, or use each channel individually.



a	Envelope Select L/R Mix, L Only, R Only, L/R Individually Selects from linking both channels, controlling only from left channel, only from the right channel, or controlling each channel individually				
b	Ratio 1.0:150.0:1, Inf:1 Sets the signal compression ratio				
с	Threshold [dB] Sets the level above which the compressor is applied	–400dB ⊮⊛			
d	Attack Sets the attack time	1100 ®			
u	Release Sets the release time	1100 ®			
	Gain Adjust [dB] Sets the output gain	–Inf, –38+24dB ™ [™] , D ™			
е	Src Selects the modulation source for the output gain	OffTempo			
	Amt Sets the modulation amount of the output gain	-63+63			
	Side PEQ Insert Toggles between on/off of the trigger signal's EQ	Off, On ™			
f	Trigger Monitor Off, On Switches between effect output monitor and trigger signal monitor				
	Side PEQ Cutoff [Hz] Sets the EQ center frequency for the trigger signal	2012.00kHz ®			
g	Q Sets the EQ bandwidth for the trigger signal	0.510.0			
	Gain [dB] Sets the EQ gain for the trigger signal	-18.0+18.0dB			
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323				
h	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323			
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100			

a: Envelope Select

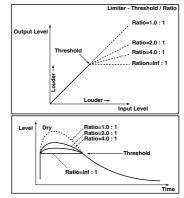
When L/R Mix is selected for this parameter, the left and right channels are linked to control the Limiter using the mixed signal. If L Only (or R Only) is selected, the left and right channels are linked, and the Limiter is controlled via only the left (or right) channel.

With L/R individually, the left and right channels control the Limiter individually.

b: Ratio, c: Threshold [dB], e: Gain Adjust [dB]

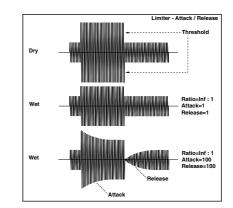
This parameter sets the signal compression "Ratio". Compression is applied only when the signal level exceeds the "Threshold" value.

Adjust the output level using the "Gain Adjust" parameter, since compression causes the entire level to be reduced.



d: Attack, d: Release

These parameters set the attack time and release time. A higher attack time will cause the compression to be applied more slowly.



f: Side PEQ Insert, g: Side PEQ Cutoff [Hz], g: Q, g: Gain [dB]

These parameters are used to set the EQ applied to the trigger signal.

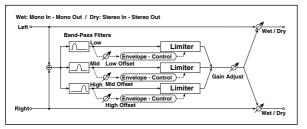
The Limiter determines whether the compression is applied or not, based on the post-EQ trigger signal. Setting the equalizer allows you to set the Limiter to respond to any frequency band.

f: Trigger Monitor

Setting this parameter **On** will cause the trigger signal to be output, instead of the effect sound. Use this parameter to check the trigger signal with EQ applied. Usually, set this to **Off**.

004: Multiband Limiter

This effect applies the Limiter to the low range, mid range, and high range of the input signal. You can control dynamics for each range to adjust the sound pressure of the low range, mid range, and high range in a different way from the EQ.



а	Ratio 1.0:1. Sets the signal compression ratio	50.0:1, Inf:1 ☞ Fx:003
b	Threshold [dB] Sets the level above which the compressor is applied	–400dB ☞ Fx:003
с	Attack Sets the attack time	1100 ☞ Fx:003
d	Release Sets the release time	1100 ☞ Fx:003
e	Low Offset [dB] Gain of the low-range trigger signal	–400dB ⊮જ
f	Mid Offset [dB] Gain of the mid-range trigger signal	–400dB ⊮જ
g	High Offset [dB] Gain of the high-range trigger signal	–400dB ₽͡͡͡
		, −38+24dB ::003, D - ™
h	Src Selects the modulation source for the output gain	OffTempo
	Amt Sets the modulation amount of the output gain	-63+63
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so Dred	9999:1, Wet unds," on page 323
i	Src Table , "Selects the modulation source of the effect bala	OffTempo nce," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

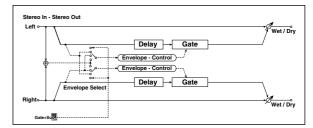
e: Low Offset [dB], f: Mid Offset [dB], g: High Offset [dB]

These parameters set the gain of the trigger signal.

For example, if you do not want to apply compression to the high range, reduce the "High Offset" value down below the "Threshold" level. In this way, the high range limiter will not respond, and compression will not be applied.

005: Gate

This effect mutes the input signal if its level is lower than the specified level. It also reverses the on and off operation of the gate, and uses Note On and Off messages to turn the gate on and off.



	Envelope Select D-mod, L/R Mix, L Selects from Control via the modulation source, mixing nals, Only left, and Only right		
a	Src Off Selects the modulation source that controls the gate who D-mod	Gate2+Dmpr en Envelope Select =	
b	Polarity Switches between non-reversed and reversed Gate on/o	+, – off 🛛 🐼	
с	Threshold Sets the level to which the Gate is applied	0100 ®	
d	Attack Sets the attack time	1100 ®	
a	Release Sets the release time	1100 ®	
е	Delay Time [msec] Sets the delay time of the gate input	0100msec	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323		
f	Src Table , "Selects the modulation source of the effect bala	OffTempo nce," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100	

a: Envelope Select, a: Src

The "Envelope Select" parameter selects whether the gate on/off is triggered by the level of the input signal, or controlled directly by the modulation source. The Src parameter specifies the modulation source, selected from **Off** to **Gate2+Dpmr**.

With "Envelope Select" = L/R Mix, the left and right channel signal mixture will trigger the gate on/off. When L Only or R Only is selected, the gate is controlled by either of the channel signals.

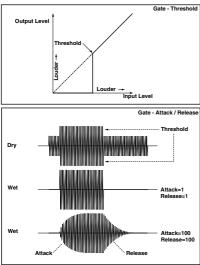
b: Polarity

This parameter reverses the Gate on/off operation. With a **negative** value, the gate is closed when the input signal level exceeds the Threshold. The gate operation controlled by the modulation source is also reversed.

c: Threshold, d: Attack, d: Release

This parameter sets the signal level below which Gate is applied when "Envelope Select" is set to L/R Mix, L Only, or R Only.

The Attack and Release parameters set the Gate attack time and release time.



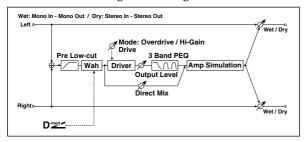
e: Delay Time

This parameter sets the delay time of the Gate input. If the sound has a very fast attack, increase the delay time so that the signal will be input after the Gate is opened. This will preserve the attack part of the sound.

006: OD - Hi Gain Wah

(Overdrive/Hi.Gain Wah)

This distortion effect utilizes an Overdrive mode and a Hi-Gain mode. Controlling the wah effect, the 3-band EQ, and the amp simulation will allow you to create versatile distortion sounds. This effect is suitable for guitar and organ sounds.



	Wah Switches Wah on/off	0ff, On ™, D ™				
a	Src OffTempo Selects the modulation source that switches the Wah on and off					
	Sw Toggle, Moment Selects the switching mode for the modulation source that switches the Wah on and off					
b	Wah Sweep Range Sets the range of Wah	–10+10 [™] , D ™				
D	Wah Sweep Src Selects the modulation source that controls the Wah	OffTempo ™				
с	Drive Mode Overdrive, Hi-Gain Switches between overdrive and hi-gain distortion					
d	Drive Sets the degree of distortion	1100 জ্ঞ				
u	Pre Low-cut Sets the low range cut amount of the distortion input	010 IS				
	Output Level Sets the output level	050 ☞, D ·≝				
е	Src Selects the modulation source for the output level	OffTempo				
	Amt Sets the modulation amount of the output level	-50+50				

f	Low Cutoff [Hz] Sets the center frequency for Low EQ (shelving type)	201.0kHz			
1	Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-18+18dB			
	Mid1 Cutoff [Hz] 3 Sets the center frequency for Mid/High EQ 1 (peaking t	0010.00kHz ype)			
g	Q Sets the band width of Mid/High EQ 1	0.510.0 ™			
	Gain [dB] Sets the gain of Mid/High EQ 1	–18+18dB			
	Mid2 Cutoff [Hz] 50 Sets the center frequency for Mid/High EQ 2 (peaking t	0020.00kHz ype)			
h	Q Sets the band width of Mid/High EQ 2	0.510.0 ®			
	Gain [dB] Sets the gain of Mid/High EQ 2	–18+18dB			
i	Direct Mix 050 Sets the amount of the dry sound mixed to the distortion				
	Speaker Simulation Switches the speaker simulation on/off	Off, On			
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet unds," on page 323			
j	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323			
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100			

a: Wah

The Wah parameter switches the wah effect on/off.

a: Sw

This parameter sets how the wah effect is switched on and off via the modulation source.

When "Sw" = **Moment**, the wah effect is usually turned off. It is turned on only when you press the pedal or operate the joystick.

When a value for the modulation source is less than 64, "off" speed is selected, and when the value is 64 or higher, "on" is selected.

When "Sw" = **Toggle**, the wah effect is switched between on and off each time you press the pedal or operate the joystick.

The switch will be turned on/off each time the value of the modulation source exceeds 64.

b: Wah Sweep Range, b: Wah Sweep Src

This parameter sets the sweep range of the wah center frequency. A negative value will reverse the direction of sweep. The wah center frequency can be controlled by the modulation source specified in the "Wah Sweep Src" parameter.

d: Drive, e: Output Level

The degree of distortion is determined by the level of input signal and the setting of "Drive". Raising the "Drive" setting will cause the entire volume level to increase. Use the "Output Level" parameter to adjust the volume level. The "Output Level" parameter uses the signal level input to the 3-Band EQ. If clipping occurs at the 3-Band EQ, adjust the "Output Level" parameter.

d: Pre Low-cut

Cutting the signal in the low range before it is input to the Distortion will create a sharp distortion.

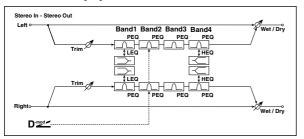
g: Q, h: Q

These parameters set the bandwidth of each equalizer. The higher the value, the narrower the band becomes.

007: Parametric 4EQ

(Parametric 4-Band EQ)

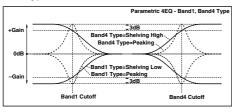
This is a stereo 4-band parametric equalizer. You can select peaking type or shelving type for Band 1 and 4. The gain of Band 2 can be controlled by dynamic modulation.



а	Trim Sets the input level	0100
b	Band1 Type Peaking, Shelving-Low Selects the type of Band 1	
с	Band4 Type Peaking, Selects the type of Band 4	Shelving-High ®
d	Band2 Dynamic Gain Src Selects the modulation source of the Band 2 gain	OffTempo ™
ŭ	Amt [dB] Sets the modulation amount of Band 2 gain	–18+18dB ™
	Band1 Cutoff [Hz] Sets the center frequency of Band 1	201.00kHz
е	Q Sets the bandwidth of Band 1	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 1	-18.0+18.0dB
	Band2 Cutoff [Hz] Sets the center frequency of Band 2	5010.00kHz
f	Q Sets the bandwidth of Band 2	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 2	–18.0+18.0dB ☞, D ™
	Band3 Cutoff [Hz] Sets the center frequency of Band 3	30010.00kHz
g	Q Sets the bandwidth of Band 3	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 3	-18.0+18.0dB
	Band4 Cutoff [Hz] Sets the center frequency of Band 4	50020.00kHz
h	Q Sets the bandwidth of Band 4	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 4	-18.0+18.0dB
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so Drmd	9999:1, Wet unds," on page 323
i	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

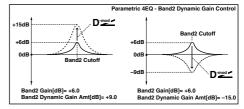
b: Band1 Type, c: Band4 Type

Selects a filter type for Band 1 and 4.



d: Band2 Dynamic Gain Src, d: Amt [dB], f: Gain [dB]

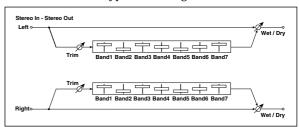
You can control the gain of Band 2 using the modulation source.



008: Graphic 7EQ

(Graphic 7 Band EQ)

This is a stereo 7-band graphic equalizer. The bar graph of the gain setting for each band gives you a clear, visual idea of frequency responses. You can select a center frequency setting for each band from twelve types, according to the sound.



a	Type1:Wide 1, 2:Wide 2, 3:Wide 3, 4:Half Wide 1, 5:Half Wide 2, 6:Half Wide 3, 7:Low, 8:Wide Low, 9:Mid, 10:Wide Mid, 11:High, 12:Wide High Selects a combination of center frequencies for each band	
b	Trim Sets the input level	0100
с	Band1 [dB] Sets the gain of Band 1	-18.0+18.0dB
d	Band2 [dB] Sets the gain of Band 2	-18.0+18.0dB
е	Band3 [dB] Sets the gain of Band 3	-18.0+18.0dB
f	Band4 [dB] Sets the gain of Band 4	-18.0+18.0dB
g	Band5 [dB] Sets the gain of Band 5	-18.0+18.0dB
h	Band6 [dB] Sets the gain of Band 6	-18.0+18.0dB
i	Band7 [dB] Sets the gain of Band 7	-18.0+18.0dB
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
j	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

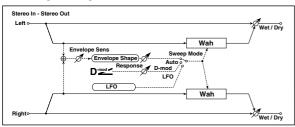
а: Туре

This parameter selects a combination of center frequencies for each band. Each center frequency is shown on the right edge of the LCD.

You can configure a 21-Band Graphic EQ ranging from 80Hz to 18kHz if you route three Graphic 7Band EQ effects in series, with a setting of **7:Low**, **9:Mid**, and **11:High** for each EQ.

009: Wah/AutoWah

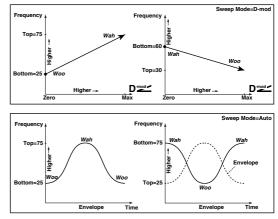
This stereo wah effect allows you to create sounds from vintage wah pedal simulation to auto-wah simulation, and much broader range settings.



a	Frequency Bottom Sets the lower limit of the wah center frequency	0100 ®
a	Frequency Top Sets the upper limit of the wah center frequency	0100 ®
	Sweep Mode Auto Selects the control from auto-wah, modulation source, a	, D-mod, LFO and LFO [™] , D ™
b	Src Selects the modulation source for the wah when Sweep	OffTempo Mode=D-mod
	Response Sets the response speed when Sweep Mode = Auto or	0100 D-mod
с	Envelope Sens (Envelope Sensitivity) Sets the sensitivity of auto-wah	0100 ®
	Envelope Shape Sets the sweep curve of auto-wah	–100+100 ⊮ଙ
	LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz ☞, D -≝
d	Src Selects the modulation source of LFO speed	OffTempo
	Amt -20.00+20.00Hz Sets the modulation amount of LFO speed	
	BPM/MIDI Sync Off, On Switches between using the frequency of the LFO speed and using the tempo and notes	
e	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240
	Base Note β , β_3 , β , β_5 Selects the type of notes that specify the LFO speed	3, 1 , 3, 7, 0 E S
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞
f	Resonance Sets the resonance amount	0100
	Low Pass Filter Switches the Wah Low Pass Filter on and off	Off, On
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
g	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: Frequency Bottom, a: Frequency Top

The sweep width and direction of the wah filter are determined by the "Frequency Top" and "Frequency Bottom" settings.



b: Sweep Mode

This parameter changes the wah control mode. Setting "Sweep Mode" to **Auto** will select an auto-wah that sweeps according to envelope changes in the input signal level. Auto-wah is frequently used for funk guitar parts and clav sounds.

When "Sweep Mode" is set to **D-mod**, you can control the filter directly via the modulation source in the same way as a wah pedal.

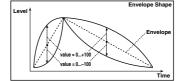
When "Sweep Mode" is set to LFO, the effect uses LFO to sweep in cycle.

c: Envelope Sens (Envelope Sensitivity)

This parameter sets the sensitivity of auto-wah. Increase the value if the input signal is too low to sweep. Reduce the value if the input signal is so high that the filter is stopped temporarily.

c: Envelope Shape

This parameter determines the sweep curve for auto-wah.



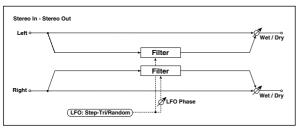
d: LFO Frequency [Hz], e: BPM/MIDI Sync

When "BPM/MIDI Sync"=Off, the LFO speed uses the LFO Frequency parameter setting. When "BPM/MIDI Sync"=On, the LFO speed follows the "BPM", "Base Note", and "Times" settings.

e: BPM, e: Base Note, e: Times

010: Random Filter

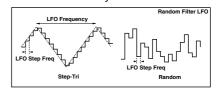
This stereo band pass filter uses a step-shape waveform and random LFO for modulation. You can create a special effect from filter oscillation.



a	LFO Waveform Selects LFO Waveform	Step-Tri, Random
b	LFO Phase [degree] -180+180 Sets the LFO phase difference between the left and right	
	LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz ☞, D
с	Src Selects the modulation source used for both LFO speed	OffTempo
	Amt -20.0 Sets the modulation amount of LFO speed	00+20.00Hz
	LFO Step Freq (Frequency) [Hz] 0 Sets the LFO step speed (speed that changes in steps)	.0550.00Hz) ™, D <u>mod</u>
d	Amt -50.0 Sets the modulation amount of LFO step speed	00+50.00Hz
	BPM/MIDI Sync Switches between using the frequency of the LFO spee tempo and notes	Off, On ed and using the :009, ح ا یس
е	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 ☞ Fx:009, ☞
	Base Note Selects the type of notes that specify the LFO speed Fx:009	
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
f	Step Base Note کی ہے۔ اور کی اور کی بڑی گر پڑی کے Step Base Note کی جنوب کر پڑی پڑی کر کر پڑی کر کر کر کر کر کر کر کر کر کر کر کر کر	
1	Times Sets the number of notes to specify the LFO step speed	x1x32 d ®
g	Manual Sets the filter center frequency	0100
	Depth Sets the modulation depth of filter center frequency	0100
h	Src Selects the modulation source of filter modulation	OffTempo
	Amt Sets the modulation amount of filter modulation	-100+100
i	Resonance Sets the resonance amount	0100
Wet/DryWet1:99, Dry, 1:99. Table , "Sets the balance between the effect and dry sounds," or		
j	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

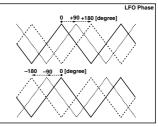
a: LFO Waveform, c: LFO Frequency [Hz], d: LFO Step Freq (Frequency) [Hz]

When "LFO Waveform" is set to **Step-Tri**, LFO is a step-shape, triangle waveform. The "LFO Frequency" parameter sets the original triangle waveform speed. Changing the "LFO Step Freq" parameter enables you to adjust the width of the steps. When "LFO Waveform" is set to **Random**, the "LFO Step Freq" parameter uses a random LFO cycle.



b: LFO Phase [degree]

Offsetting the left and right phases alters how modulation is applied to the left and right channels, creating a swelling affect.



e: BPM, f: Step Base Note, f: Times

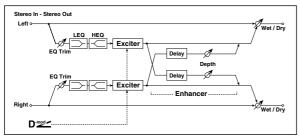
The width of an LFO step, or a cycle of random LFO, is obtained by multiplying the length of a note (A,...) (selected for "Step Base Note", in relation to the tempo specified in "BPM," or the **MIDI** Clock tempo if "BPM" is set to MIDI) by the number specified in the "Times" parameter.

j: Wet/Dry

The effect sound's phase will be reversed when you set this parameter in the range of values from -Wet to -1:99.

011: Exciter/Enhancer

This effect is a combination of the Exciter, which adds a punch to the sound and the Enhancer, which adds spread and presence.



	Exciter Blend Sets the intensity (depth) of the Exciter effect	–100+100 [⊮] 37, D ™
а	Src Selects the modulation source of the Exciter intensity	OffTempo
	Amt Sets the modulation amount of the Exciter intensity	-100+100
	Emphatic Point Sets the frequency to be emphasized	070 ™3, D ™2⊄
b	Src Selects the modulation source of the frequency to be e	OffTempo mphasized
	Amt Sets the amount of modulation of the frequency to be e	-70+70 emphasized
с	Enhancer Dly L (Enhancer Delay L) [msec] Sets the delay time for the Enhancer left channel	0.050.0msec
d	Enhancer Dly R (Enhancer Delay R) [msec] C Sets the delay time for the Enhancer right channel	0.050.0msec
	Enhancer Depth Sets the determines to what degree the Enhancer effect	0100 ct is applied D ⁻ ™d
е	Src Selects the modulation source of the Enhancer width	OffTempo
	Amt Sets the modulation amount of the Enhancer width	-100+100
f	EQ Trim Sets the 2-band EQ input level	0100
	Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-15.0+15.0dB
g	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	-15.0+15.0dB
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry sc Dmed	9999:1, Wet ounds," on page 323
h	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: Exciter Blend

This parameter sets the depth (intensity) of the Exciter effect. Positive values give a frequency pattern (to be emphasized) different from negative values.

b: Emphatic Point

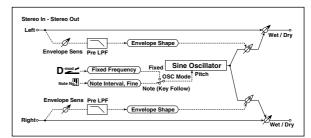
This parameter sets the frequency to be emphasized. Higher values will emphasize lower frequencies.

c: Enhancer Dly L [msec], d: Enhancer Dly R [msec]

These parameters set the delay time for the Enhancer left and right channel. Specifying a slightly different delay time for the left and right channel will add a stereo image, depth, and width to the sound.

012: Sub Oscillator

This effect adds very low frequencies to the input signal. It is very useful when simulating a roaring drum sound or emphasizing powerful low range. This effect is different from the equalizer in that you can add very low range harmonics. You can also adjust the oscillator frequency to match a particular note number, for use as an octaver.



a	OSC Mode Note (Key Follow), Fixed Determines whether the oscillator frequency follows the note number or whether it is fixed	
b	Note Interval Sets the pitch difference from the note number when O Follow)	–480 SC Mode=Note (Key ⊮⊛
	Note Fine Fine adjustment of the oscillator frequency	–100+100 ⊮ଙ
	Fixed Frequency [Hz] Sets the oscillator frequency when OSC Mode=Fixed	10.080.0Hz D ^{-mod}
с	Src OffTempo Selects the modulation source for the oscillator frequency when OSC Mode=Fixed	
	Amt Sets the oscillator frequency modulation amount when	-80+80Hz OSC Mode=Fixed
d	Envelope Pre LPF 1100 Sets the upper limit of the frequency range for which very low harmonics are added	
	Envelope Sens (Envelope Sensitivity) Sets the sensitivity with which very low harmonics are	0100 added
e	Envelope Shape Sets the oscillator's volume envelope curve	-100+100
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so Dred	9999:1, Wet ounds," on page 323
f	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: OSC Mode, b: Note Interval, b: Note Fine

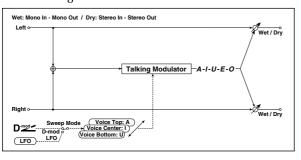
The "OSC Mode" parameter selects the oscillator operation mode. When **Note (Key Follow)** is selected, the oscillator's frequency is determined based on the note number, allowing you to use it as an octaver. The "Note Interval" parameter sets the pitch offset from the original note number by semitone steps. The "Note Fine" parameter allows you to fine-tune in steps of cents.

d: Envelope Pre LPF

This parameter sets the upper limit of the frequency range to which very low harmonics are added. Adjust this parameter if you do not want to add lower harmonics to the higher range.

013: Talking Modulator

This effect adds an unusual character, like a human voice, to the input signal. Modulating the tone via dynamic modulation, you can create an interesting effect that sounds as if the guitar or synthesizer is talking.



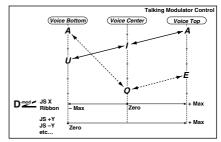
a	Sweep Mode Switches between modulation source control and LFO	D-mod, LFO control
	Manual Voice Control Bottom, 149, Center Voice pattern control	
b	Src Selects the modulation source that controls the voice pa	OffTempo attern
с	Voice Top Selects a vowel sound at the top end of control	A, I, U, E, O
d	Voice Center Selects a vowel sound in the center of control	A, I, U, E, O
е	Voice Bottom Selects a vowel sound at the bottom end of control	A, I, U, E, O
		0.0220.00Hz x:009, D -≝⊴≝
f	Src Selects the modulation source of LFO speed	OffTempo
	Amt -20.0 Sets the modulation amount of LFO speed	00+20.00Hz
	BPM/MIDI Sync Off, On Switches between using the frequency of the LFO speed and using the tempo and notes	
g	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 ☞ Fx:009
	Base Note $\begin{array}{c} \begin{array}{c} arra$, , , , , , , , , , , , , , , , , , ,
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
h	Formant Shift Sets the frequency to which the effect is applied	–100+100 ⊮ଙ
	Resonance Sets the Level of resonance of the voice pattern	0100 ®
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet unds," on page 323
i	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

c: Voice Top, d: Voice Center, e: Voice Bottom

These parameters assign vowels to the top, center, and bottom position of the controller.

. E.g.: When "Voice Top"=A, "Voice Center"=I, and "Voice Bottom"=U:

If Sweep Mode is set to LFO, the sound will change cyclically from "a" to "i," "u," "i," then "a."



h: Formant Shift

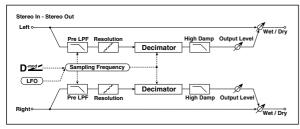
This parameter adjusts the frequency level to which the effect is applied. If you wish to apply the effect to a higher-range sound, set this parameter to a higher value; to apply the effect to a lower-range sound, set this to a lower value.

h: Resonance

This parameter sets the intensity of resonance for the voice pattern. A larger value will add more character to the sound.

014: Decimator

This effect creates a rough sound like a cheap sampler by lowering the sampling frequency and data bit length. You can also simulate noise unique to a sampler (aliasing).



a	Pre LPF Selects whether the harmonic noise caused by a decre quency is generated or not	Off, On ase in sampling fre-	
	High Damp [%] Sets the ratio of cut of the high range	0100%	
	Sampling Freq (Sampling Frequency) [Hz] Sets the sampling frequency	1.00k48.00kHz D ^{-mod}	
b	Src Selects the modulation source of the sampling frequence	OffTempo cy	
	Amt -48.00k+48.00kHz Sets the modulation amount of the sampling frequency		
	LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz D™™	
с	Src Selects the modulation source of LFO speed	OffTempo	
	Amt -20.00+20.00Hz Sets the modulation amount of LFO speed		
	Depth Sets the depth of the sampling frequency LFO modulat	0100 ion D	
d	Src OffTempo Selects the LFO modulation source of the sampling frequency		
	Amt -100+100 Sets the LFO modulation amount of the sampling frequency		
е	Resolution Sets the data bit length	424 ⊮⊛	
	Output Level Sets the output level	0100 ☞, D ™	
f	Src Selects the modulation source for the output level	OffTempo	
	Amt Sets the modulation amount of the output level	-100+100	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323		
g	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323		
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100	

a: Pre LPF

If a sampler with a very low sampling frequency receives very high-pitched sound that could not be heard during playback, it could generate pitch noise that is unrelated to the original sound. Set "Pre LPF" to **ON** to prevent this noise from being generated.

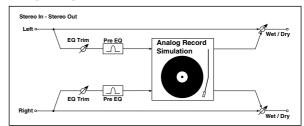
If you set the "Sampling Freq" to about **3kHz** and set "Pre LPF" to **OFF**, you can create a sound like a ring modulator.

e: Resolution, f: Output Level

If you set a smaller value for the "Resolution" parameter, the sound may be distorted. The volume level may also be changed. Use "Output Level" to adjust the level.

015: Analog Record

This effect simulates the noise caused by scratches and dust on analog records. It also reproduces some of the modulation caused by a warped turntable.



а	Speed [RPM] Sets the r.p.m. of a record	33 1/3, 45, 78
b	Flutter Sets the modulation depth	0100 ®
	Noise Density Sets the noise density	0100
С	Noise Tone Sets the noise tone	0100
	Noise Level Sets the noise level	0100 D ^{™©d}
d	Src Selects the modulation source for the noise level	OffTempo
	Amt Sets the modulation amount of the noise level	-100+100
	Click Level Sets the click noise level	0100 ☞, D ™
е	Src Selects the modulation source for the click noise level	OffTempo
	Amt Sets the modulation amount of the click noise level	-100+100
f	EQ Trim Table , "Sets the EQ input level," on page 323	0100
	Pre EQ Cutoff [Hz] Sets the EQ center frequency	30010.00kHz
g	Q Sets the EQ band width	0.510.0
	Gain [dB] Sets the EQ gain	-18.0+18.0dB
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet ounds," on page 323
h	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

b: Flutter

This parameter enables you to set the depth of the modulation caused by a warped turntable.

e: Click Level

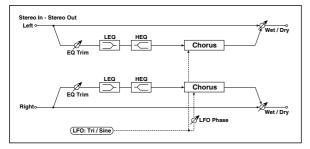
This parameter enables you to set the level of the click noise that occurs once every rotation of the turntable. This simulation reproduces record noise, and the noise generated after the music on a vinyl record finishes.

Pitch/Phase Mod.

Pitch/phase modulation effects

016: Chorus

This effect adds thickness and warmth to the sound by modulating the delay time of the input signal. You can add spread to the sound by offsetting the phase of the left and right LFOs from each other.



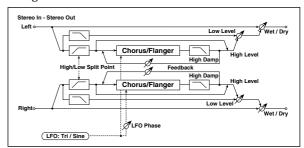
a	LFO Waveform Selects LFO Waveform	Triangle, Sine
b	LFO Phase [degree] -180+180 Sets the LFO phase difference between the left and right ☞ Fx:010	
		0.0220.00Hz ::009, D - <u>m</u> od
с	Src Selects the modulation source of LFO speed	OffTempo
	Amt –20. Sets the modulation amount of LFO speed	00+20.00Hz
	BPM/MIDI Sync Switches between using the frequency of the LFO spee tempo and notes	Off, On ed and using the x:009, ⊃
d	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 IS Fx:009
	Base Note Selects the type of notes that specify the LFO speed ** Fx:009	
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
е	L Pre Delay [msec] Sets the delay time for the left channel	0.050.0msec
f	R Pre Delay [msec] Sets the delay time for the right channel	0.050.0msec
	Depth Sets the depth of LFO modulation	0100 D ^{-mod}
g Src Off Selects the modulation source of the LFO modulation depth		OffTempo lepth
	Amt -100+100 Sets the modulation amount of the LFO modulation depth	
h	EQ Trim Table , "Sets the EQ input level," on page 323	0100
i	Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-15.0+15.0dB
	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	-15.0+15.0dB
	Wet/DryWet1:99, D Table , "Sets the balance between the effect and dry so ## F.	Dry, 1:99Wet bunds," on page 323 x:010, D - <u>m⊴</u> <
j	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

e: L Pre Delay [msec], f: R Pre Delay [msec]

Setting the left and right delay time individually allows you to control the stereo image.

017: Harmonic Chorus

This effect applies chorus only to higher frequencies. This can be used to apply a chorus effect to a bass sound without making the sound thinner. You can also use this chorus block with feedback as a flanger.



a	LFO Waveform	Triangle, Sine
	Selects LFO Waveform	-180+180
b	LFO Phase [degree] -180+180 Sets the LFO phase difference between the left and right 🐨 Fx:010	
		0.0220.00Hz ::009, D- ****
с	Src Selects the modulation source of LFO speed	OffTempo
	Amt -20. Sets the modulation amount of LFO speed	00+20.00Hz
	BPM/MIDI Sync Switches between using the frequency of the LFO spee tempo and notes	Off, On ed and using the x:009, حالي
d	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 ☞ Fx:009
	Base Note $\mathfrak{Z}, \mathfrak{Z}_3, \mathfrak{Z}_3, \mathfrak{Z}_3$ Selects the type of notes that specify the LFO speed	, , , , , , , , , , , , , , , , , , ,
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
е	Pre Delay [msec] Sets the delay time from the original sound	0.050.0msec
	Depth Sets the depth of LFO modulation	0100 D ^{-mod}
f	Src OffTempo Selects the modulation source of the LFO modulation depth	
	Amt Sets the modulation amount of the LFO modulation dep	-100+100 pth
g	High/Low Split Point 1100 Sets the frequency split point between the low and high range	
h	Feedback Sets the feed back amount of the chorus block	–100+100 ⊮⊛
	High Damp [%] 0100% Sets the high range damping amount of the chorus block	
i	Low Level Sets the low range output level	0100
	High Level Sets the high range (chorus) output level	0100
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet ounds," on page 323
j	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

g: High/Low Split Point

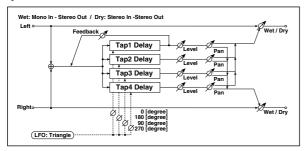
This parameter sets the frequency that splits the high and low range. Only the high range will be sent to the chorus block.

h: Feedback

Sets the feedback amount of the chorus block. Increasing the feedback will allow you to use the effect as a flanger.

018: Multitap Cho/Delay

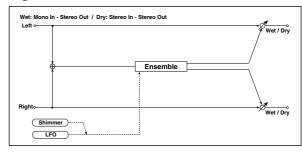
This effect has four chorus blocks with a different LFO phase. You can create a complex stereo image by setting each block's delay time, depth, output level, and pan individually. You can also fix some of the chorus blocks to combine the chorus and delay effects.



а	LFO Frequency [Hz] Sets the LFO speed	0.0213.00Hz
	Tap1(000) [msec] Sets the Tap1 (LFO phase=0 degrees) delay time	0570msec
	Depth Sets the Tap1 chorus depth	030
b	Level Sets the Tap1 output level	030
	Pan L6I Sets the Tap1 stereo image	L1, C, R1R6
	Tap2(180) [msec] Sets the Tap2 (LFO phase=180 degrees) delay time	0570msec
	Depth Sets the Tap2 chorus depth	030
С	Level Sets the Tap2 output level	030
	Pan L6I Sets the Tap2 stereo image	L1, C, R1R6
	Tap3(090) [msec] Sets the Tap3 (LFO phase=90 degrees) delay time	0570msec
d	Depth Sets the Tap3 chorus depth	030
u	Level Sets the Tap3 output level	030
	Pan L6L1, C, R1R6 Sets the Tap3 stereo image	
	Tap4(270) [msec] Sets the Tap4 (LFO phase=270 degrees) delay time	0570msec
	Depth Sets the Tap4 chorus depth	030
е	Level Sets the Tap4 output level	030
	Pan L6L1, C, R1R6 Sets the Tap4 stereo image	
	Tap1 Feedback Sets the Tap1 feedback amount	-100+100 D™
f	Src OffTempo Selects the modulation source of Tap1 feedback amount and effect balance	
	Amt -100+100 Sets the Tap1 feedback amount and modulation amount	
g	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so Dred	9999:1, Wet ounds," on page 323
9	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

019: Ensemble

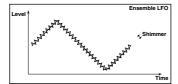
This Ensemble effect has three chorus blocks that use LFO to create subtle shimmering, and gives three dimensional depth and spread to the sound, because the signal is output from the left, right, and center.



	Speed Sets the LFO speed	1100 D
а	Src Selects the modulation source of LFO speed	OffTempo
	Amt Sets the modulation amount of LFO speed	-100+100
	Depth Sets the depth of LFO modulation	0100 D ^{-mod}
b	Src OffTempo Selects the modulation source of the LFO modulation depth	
	Amt Sets the modulation amount of the LFO modulation dep	-100+100 oth
с	Shimmer Sets the amount of shimmering of the LFO waveform	0100 ®®
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet bunds," on page 323
d	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

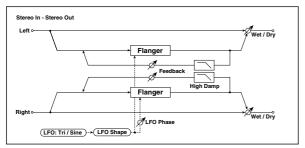
c: Shimmer

This parameter sets the amount of shimmering of the LFO waveform. Increasing this value adds more shimmering, making the chorus effect more complex and richer.



020: Flanger

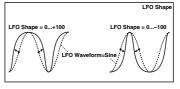
This effect gives a significant swell and movement of pitch to the sound. It is more effective when applied to a sound with a lot of harmonics. This is a stereo flanger. You can add spread to the sound by offsetting the phase of the left and right LFOs from each other.



a	Delay Time [msec] Sets the delay time from the original sound	0.050.0msec
	LFO Waveform Selects LFO Waveform	Triangle, Sine
b	LFO Shape Determines how much the LFO waveform is changed	–100+100 ©⊗
с	LFO Phase [degree] Sets the LFO phase difference between the left and rigl	–180+180 ht II III Fx:010
	LFO Frequency [Hz] 0 Sets the LFO speed FX	.0220.00Hz :009, D <u>med</u>
d	Src Selects the modulation source of LFO speed	OffTempo
	Amt -20.0 Sets the modulation amount of LFO speed	00+20.00Hz
	BPM/MIDI Sync Switches between using the frequency of the LFO spee tempo and notes मङ Fx	Off, On ed and using the :009, ح ا فیت
е	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 ☞ Fx:009
	Base Note A base Note B base N	
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
f	Depth Sets the depth of LFO modulation	0100
_	Feedback Sets the feedback amount	–100+100 ¤⊛
g	High Damp [%] Sets the feedback damping amount in the high range	0100% ®
	Wet/Dry -Wet1:99, D Table , "Sets the balance between the effect and dry so ☞ Fx	
h	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

b: LFO Shape

Changing the LFO waveform shape controls the peak sweep of flanging effects.



g: Feedback, h: Wet/Dry

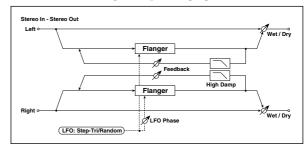
The peak shape of the positive and negative "Feedback" value is different. The harmonics will be emphasized when the effect sound is mixed with the dry sound if you set a positive value for both "Feedback" and "Wet/Dry", and if you set a negative value for both "Feedback" and "Wet/Dry".

g: High Damp [%]

This parameter sets the amount of damping of the feedback in the high range. Increasing the value will cut high-range harmonics.

021: Random Flanger

The stereo effect uses a step-shape waveform and random LFO for modulation, creating a unique flanging effect.

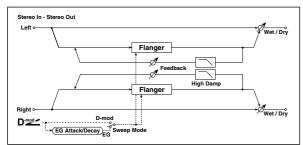


a	Delay Time [msec] Sets the delay time from the original sound	0.050.0msec
b	LFO Waveform Selects LFO Waveform	Step-Tri, Random IS Fx:010
с	LFO Phase [degree] Sets the LFO phase difference between the left and rig	−180+180 ht IIS Fx:010
		0.0220.00Hz x:010, D - <u>mo</u> d≮
d	Src Selects the modulation source used for both LFO spee	OffTempo d and step speed
	Amt -20.0 Sets the modulation amount of LFO speed	00+20.00Hz
e	LFO Step Freq (Frequency) [Hz] C Sets the LFO step speed (speed that changes in steps	0.0550.00Hz) IST Fx:010, D∰
	Amt -50.0 Sets the modulation amount of LFO step speed	00+50.00Hz
	BPM/MIDI Sync Switches between using the frequency of the LFO spee tempo and notes	Off, On ed and using the :009,
f	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 ☞ Fx:009, 010
	Base Note $\mathfrak{Z}, \mathfrak{Z}_3, \mathfrak{Z}_3$ Selects the type of notes that specify the LFO speed	, , , , , , , , , , , , , , , , , , ,
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
g	Step Base Note ♪, ♪, ♪, ♪, ♪, Selects the type of notes to specify the LFO step spect® Far Far	ł
	Times Sets the number of notes to specify the LFO step spee	x1x32 d ™ Fx:010
h	Depth Sets the depth of LFO modulation	0100

i	Feedback Sets the feedback amount	–100+100 ☞ Fx:020
	High Damp [%] Sets the feedback damping amount in the high range	0100% ☞ Fx:020
	Wet/Dry -Wet1:99, Dry, 1:99Wet Table , "Sets the balance between the effect and dry sounds," on page 323 Image: Set the balance between the effect and dry sounds," on page 323	
j	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

022: Envelope Flanger

This Flanger uses an envelope generator for modulation. You will obtain the same pattern of flanging each time you play. You can also control the Flanger directly using the modulation source.



	L Dly Bottom [msec] (L Delay Bottom)0.050.0m Sets the lower limit of the delay time on the left cl		
а	a L Dly Top [msec] (L Delay Top)0.050.0msec Sets the upper limit of the delay time on the left channel ^{II®} Fx:00		
b	R Dly Bottom [msec] (R Delay Bottom)0.050.0msec Sets the lower limit of the delay time on the right channel ☞ Fx:009		
b	R Dly Top [msec] (R Delay Top)0.050.0msec Sets the upper limit of the delay time on the right	channel ^{I®®} Fx:009	
	Sweep ModeEG, D-mod Determines whether the flanger is controlled by the envelope gen erator or by the modulation source ^{III} , D ^{IIIII}		
с	SrcOffTempo Selects the modulation source that triggers the EG (when EG is selected for Sweep Mode), or modulation source that causes the flanger to sweep (when D-mod is selected for Sweep Mode)		
d	EG Attack Sets the EG attack speed	1100 ⊮⊛	
a	EG Decay Sets the EG decay speed	1100 ⊮⊛	
е	Feedback Sets the feedback amount	–100+100 IS Fx:020	
f	High Damp [%]0100% Sets the feedback damping amount in the high range [∎] Fx:020		
	Wet/Dry-Wet1:99, Dry, 1:99Wet Table , "Sets the balance between the effect and dry sounds," on page 323		
g	SrcOffTempo Table , "Selects the modulation source of the effect balance," on page 323		
	Amt Table , "Sets the modulation amount of the effect balance," on page 323	-100+100	

c: Sweep Mode, c: Src

This parameter switches the flanger control mode. With "Sweep Mode" = EG, the flanger will sweep using the envelope generator. This envelope generator is included in the envelope flanger, and not related to the Pitch EG, Filter EG, or Amp EG.

The "Src" parameter selects the source that starts the envelope generator. If you select, for example, **Gate**, the envelope generator will start when the note-on message is received.

When "Sweep Mode" = **D-mod**, the modulation source can control the flanger directly. Select the modulation source using the "Src" parameter.

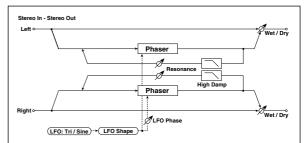
The effect is off when a value for the modulation source specified for the "Src" parameter is smaller than 64, and the effect is on when the value is 64 or higher. The Envelope Generator is triggered when the value changes from 63 or smaller to 64 or higher.

d: EG Attack, d: EG Decay

Attack and Decay speed are the only adjustable parameters on this EG.

023: Phaser

This effect creates a swell by shifting the phase. It is very effective on electric piano sounds. You can add spread to the sound by offsetting the phase of the left and right LFOs from each other.



a	LFO Waveform Selects LFO Waveform	Triangle, Sine
u	LFO Shape Determines how much the LFO waveform is changed	–100+100 ☞ Fx:020
b	LFO Phase [degree] Sets the LFO phase difference between the left and rig	–180+180 ht III Fx:010
		.0220.00Hz ∷009, D -≝≝≝
с	Src Selects the modulation source of LFO speed	OffTempo
	Amt -20.0 Sets the modulation amount of LFO speed	00+20.00Hz
	BPM/MIDI Sync Switches between using the frequency of the LFO spec tempo and notes	Off, On ed and using the ::009, ح
d	BPM I Selects MIDI Clock and assigns tempo	MIDI, 40240 I Fx:009
	Base Note $\beta, \beta_3, \beta, $	
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
е	Manual Sets the frequency to which the effect is applied	0100
	Depth Sets the depth of LFO modulation	0100 D ^{-mod}
f	Src Selects the modulation source for the LFO modulation	OffTempo depth
	Amt -100+100 Sets the modulation amount of the LFO modulation depth	
	Resonance Sets the resonance amount	–100+100 ©⊛
g	High Damp [%] Sets the resonance damping amount in the high range	0100% ®
h	Wet/Dry -Wet1:99, Dry, 1:99Wet Table , "Sets the balance between the effect and dry sounds," on page 323 Image: Fx:010, Drg	
	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

g: Resonance, h: Wet/Dry

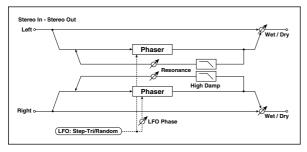
The peak shape of the positive and negative Feedback value is different. The harmonics will be emphasized when the effect sound is mixed with the dry sound, if you set a positive value for both "Resonance" and "Wet/Dry", and if you set a negative value for both "Resonance" and "Wet/Dry".

g: High Damp [%]

This parameter sets the amount of damping of the resonance in the high range. Increasing the value will cut high-range harmonics.

024: Random Phaser

This is a stereo phaser. The effect uses a step-shape waveform and random LFO for modulation, creating a unique phasing effect.

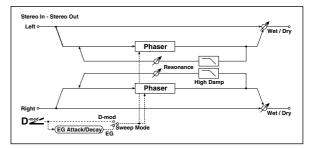


a	LFO Waveform Step-Tri, Step Selects LFO Waveform	-Sin, Random ® Fx:010
b	LFO Phase [degree] Sets the LFO phase difference between the left and rig	–180+180 ht II III Fx:010
		0.0220.00Hz x:010, D - <u>™∞1</u>
с	Src Selects the modulation source commonly used for LFO speed	OffTempo speed and step
	Amt –20. Sets the modulation amount of LFO speed	00+20.00Hz
d		0.0550.00Hz x:010, D - <u>™⊴</u> ⊄
u	Amt -50. Sets the modulation amount of LFO step speed	00+50.00Hz
	BPM/MIDI Sync Switches between using the frequency of the LFO spec tempo and notes	Off, On ed and using the ::009,
е	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 ®≊009, 010
	Base Note	, , , , , , , , , , , , , , , , , , ,
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
f	Step Base Note Selects the type of notes to specify the LFO step speed	
	Times Sets the number of notes to specify the LFO step spee	x1x32 d ™ Fx:010
g	Manual Sets the frequency to which the effect is applied	0100
h	Depth Sets the depth of LFO modulation	0100
i	Resonance Sets the resonance amount	–100+100 ☞ Fx:023
	High Damp [%] Sets the resonance damping amount in the high range	0100% ☞ Fx:023

	Wet/Dry -Wet1:99, Dry, 1:99We Table , "Sets the balance between the effect and dry sounds," on page I Fx:010, 023, D		
j	OffTempo ance," on page 323		
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100	

025: Envelope Phaser

This stereo phaser uses an envelope generator for modulation. You will obtain the same pattern of phasing each time you play. You can also control the Phaser directly using the modulation source.

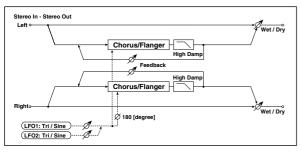


	L Manu Bottom (L Manual Bottom) Sets the lower limit of the frequency range for the effect	0100 t on the left channel
а	L Manu Top (L Manual Top) Sets the upper limit of the frequency range for the effect © Fx:009	0100 t on the left channel
	R Manu Bottom (R Manual Bottom) Sets the lower limit of the frequency range for the effect © Fx:009	0100 on the right channel
b R Manu Top (R Manual Top) 0 Sets the upper limit of the frequency range for the effect on the ri I I Strate Stra		0100 on the right channel
	Sweep Mode EG, D-mod Determines whether the flanger is controlled by the envelope generator or by the modulation source FX:022, D-mod	
c Src OffTemp Selects the modulation source that triggers the EG (when EG is sele Sweep Mode), or modulation source that causes the flanger to swee (when D-mod is selected for Sweep Mode)		
d	EG Attack Sets the EG attack speed	1100 IIII Fx:022
a	EG Decay Sets the EG decay speed	1100 IIII Fx:022
е	Resonance Sets the resonance amount	–100+100 IS Fx:023
f	High Damp [%] 0100% Sets the resonance damping amount in the high range ☞ Fx:023	
	Wet/Dry -Wet1:99, Dry, 1:99Wet Table , "Sets the balance between the effect and dry sounds," on page 323 Image: Fx:010, 023, Drmd	
g	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

026: Biphase Mod.

(Biphase Modulation)

This stereo chorus effect adds two different LFOs together. You can set the Frequency and Depth parameters for each LFO individually. Depending on the setting of these LFOs, very complex waveforms will create an analog-type, unstable modulated sound.

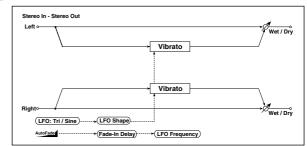


	LFO1 Waveform Selects LFO1 waveform	Triangle, Sine
а	LFO2 Waveform Selects LFO2 waveform	Triangle, Sine
b	LFO Phase Sw 0 degree, 180 degree Switches the LFO phase difference between left and right	
	LFO1 Frequency [Hz] Sets the LFO1 speed	0.0230.00Hz D™d≝
с	Src Selects the modulation source of LFO1&2 speed	OffTempo
	Amt Sets the modulation amount of LFO1 speed	-30.00+30.00
d	LFO2 Frequency [Hz] Sets the LFO2 speed	0.0230.00Hz D™≝≝
u	Amt Sets the modulation amount of LFO2 speed	-30.00+30.00
	Depth1 Sets the depth of LFO1 modulation	0100 D™ ≝≝
е	Src OffTempo Selects the modulation source of LFO1&2 modulation depth	
	Amt Sets the modulation amount of LFO1 modulation depth	-100+100
f	Depth2 Sets the depth of LFO2 modulation	0100 D™ ≝≝
1	Amt Sets the modulation amount of LFO2 modulation depth	-100+100
g	L Pre Delay [msec] Sets the delay time for the left channel	0.050.0msec ☞ Fx:016
h	R Pre Delay [msec] Sets the delay time for the right channel	0.050.0msec ☞ Fx:016
i	Feedback Sets the feedback amount	−100+100 ☞ Fx:017
I	High Damp [%] Sets the damping amount in the high range	0100%
	Wet/DryWet1:99, Dry, 1:99Wet Table , "Sets the balance between the effect and dry sounds," on page 323 ® Fx:010, D_md	
j	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

Bi-Phase Modulation LFO

027: Vibrato

This effect causes the pitch of the input signal to shimmer. Using the AutoFade allows you to increase or decrease the shimmering speed.



a	AUTOFADE Src Selects the modulation source that starts AutoFade	OffTempo ☞, D≝
a	Fade-In Rate Sets the rate of fade-in	1100 જ
b	Fade-In Delay [msec] Sets the fade-in delay time	002000msec
с	LFO Waveform Selects LFO Waveform	Triangle, Sine
L	LFO Shape Determines how much the LFO waveform is changed	−100+100 IS Fx:020
d	LFO Frequency Mod D-mod Switches between D-mod and AUTOFADE for the LFO tion	l, AUTOFADE frequency modula-
		.0220.00Hz :009, D - mod
е	Src Selects the modulation source of LFO speed	OffTempo
Amt -20.00+20. Sets the modulation amount of LFO speed		00+20.00Hz
	BPM/MIDI Sync Off, On Switches between using the frequency of the LFO speed and using the tempo and notes	
f	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 S Fx:009
	Base Note β, β_3, δ , Selects the type of notes that specify the LFO speed	J³, J, J³, J, o IS Fx:009
	Times Sets the number of notes that specify the LFO speed	x1x16 IIS Fx:009
	Depth Sets the depth of LFO modulation	0100 D
g	Src OffTempo Selects the modulation source of the LFO modulation depth	
	Amt Sets the modulation amount of the LFO modulation dep	–100+100 oth
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet unds," on page 323
h	Src Table , "Selects the modulation source of the effect bala	OffTempo Ince," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

d: LFO Frequency Mod, a: AUTOFADE Src, a: Fade-In Rate b: Fade-In Delay [msec]

When "LFO Frequency Mod" is set to **AUTOFADE**, you can use the modulation source selected in "AUTO FADE Src" as a trigger to automatically fade in the modulation amount. When "BPM/MIDI Sync" is set to **On**, you cannot use this.

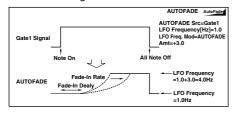
The "Fade-in Rate" parameter specifies the rate of fade-in. The "Fade-in Delay" parameter determines the time from AutoFade modulation source ON until the fade-in starts.

The following is an example of fade-in where the LFO speed is increased from "1.0Hz" to "4.0Hz" when a note-on message is received.

"AUTOFADE Src"=Gate1, "LFO Frequency [Hz]"=1.0

"LFO Frequency Mod"=AUTOFADE, "Amt"=3.0

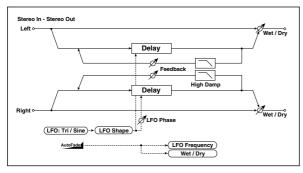
The effect is off when a value for the dynamic modulation source specified for the "AUTOFADE Src" parameter is smaller than 64, and the effect is on when the value is 64 or higher. The AutoFade function is triggered when the value changes from 63 or smaller to 64 or higher.



028: Auto Fade Mod.

(Auto Fade Modulation)

This stereo chorus/flanger effect enables you to control the LFO speed and effect balance using auto fade, and you can spread the sound by offsetting the phase of the left and right LFOs from each other.

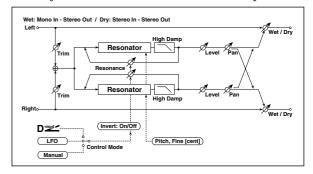


	AUTOFADE Src Selects the modulation source that starts AutoFade	OffTempo
а		IS Fx:027, D
	Rate Sets the rate of fade-in	1100 ☞ Fx:027
	Fade-In Dly (Fade-In Delay) [msec] Sets the fade-in delay time	002000msec ☞ Fx:027
b	LFO Waveform Selects LFO Waveform	Triangle, Sine
	LFO Shape Determines how much the LFO waveform is changed	–100+100 ☞ Fx:020
с	LFO Phase [degree] Sets the LFO phase difference between the left and rig	–180+180 ht জ Fx:010
d	LFO Frequency Mod D-mod Switches between D-mod and AUTOFADE for the LFO tion	d, AUTOFADE frequency modula- ™ Fx:027
	LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz D ^{-mod}
е	Src Selects the modulation source of LFO speed	OffTempo
	Amt -20.1 Sets the modulation amount of LFO speed	00+20.00Hz
f	L Delay Time [msec] Sets the left channel delay time	0.0500.0msec
	R Delay Time [msec] Sets the right channel delay time	0.0500.0msec
g	Depth Sets the depth of LFO modulation	0200
h	Feedback Sets the feedback amount	–100+100 ☞ Fx:020
h	High Damp [%] Sets the feedback damping amount in the high range	0100% ሜ Fx:020
i	Wet/Dry Mod D-mod Switches between D-mod and AUTOFADE for the effect ® Fx:027	d, AUTOFADE balance modulation

	Wet/DryWet1:99, D Table , "Sets the balance between the effect and dry so F3:010	
j	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

029: 2-Voice Resonator

This effect resonates the input signal at a specified pitch. You can set the pitch, output level, and pan settings for two resonators individually. You can control the resonance intensity via an LFO.



	Control Mode Manua Switches the controls of resonance intensity	l, LFO, D-mod ^{™,} D ^{-mod}
a	LFO/D-mod Invert Reverses the Voice 1 and 2 control when LFO/D-mod i	Off, On s selected ⊮ଙ
	LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
b	D-mod Src Selects the modulation source that controls resonance	OffTempo intensity
с	Mod. Depth Sets the amount of resonance intensity control via LFC	-100+100 0/D-mod
L L	Trim Sets the input level at the resonator	0100
d	Voice1: Pitch Sets the voice1 Pitch for resonance	C0B8
ŭ	Fine [cent] Fine-adjusts the voice 1 pitch for resonance	-50+50
	Voice1: Resonance Sets the intensity of resonance when Control Mode = N	-100+100 ∕Ianual জ
e	High Damp [%] Sets the damping amount of resonant sound in the hig	0100% h range 🖙
f	Voice1: Level Sets the Voice1 output level	0100
	Pan Sets the Voice1 stereo image	L6R6
	Voice2: Pitch Sets the Voice2 Pitch for resonance	C0B8
g	Fine [cent] Fine-adjusts the voice 2 pitch for resonance	-50+50
h	Voice2: Resonance Sets the intensity of resonance when Control Mode = N	-100+100 ∕Ianual ™
h	High Damp [%] Sets the damping amount of resonant sound in the hig	0100% h range 🖙
	Voice2: Level Sets the Voice2 output level	0100
i	Pan Sets the Voice2 stereo image	L6R6
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so D ^{-mod}	9999:1, Wet ounds," on page 323
j	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: Control Mode, e: Voice1: Resonance, h: Voice2: Resonance

This parameter determines the resonance intensity.

When "Control Mode" = **Manual**, the "Resonance" parameter sets the intensity of resonance. If the "Resonance" parameter has a negative value, harmonics will be changed, and resonance will occur at a pitch one octave lower.

When "Control Mode" = LFO, the intensity of resonance varies according to the LFO. The LFO sways between positive and negative values, causing resonance to occur between specified pitches an octave apart in turn.

When "Control Mode" = **D-mod**, the resonance is controlled by the dynamic modulation source. If **JS X** is assigned as the modulation source, the pitch an octave higher and lower can be controlled, similar to when LFO is selected for Control Mode.

a: LFO/D-mod Invert

When "Control Mode" = LFO or D-mod, the controlled phase of either Voice 1 or 2 will be reversed. When the resonance pitch is set for Voice 1 (Resonance has a positive value), Voice 2 will resonate at a pitch an octave below (Resonance has a negative value).

d: Voice1: Pitch, d: Fine [cent], g: Voice2: Pitch, g: Fine [cent]

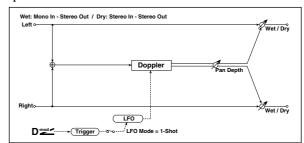
The Pitch parameter specifies the pitch of resonance by note name. The "Fine" parameter allows for fine adjustment in steps of cents.

e: High Damp [%], h: High Damp [%]

This parameter sets the damping amount of resonant sound in the high range. Lower values will make a metallic sound with a higher range of harmonics.

030: Doppler

This effect simulates the "Doppler effect" of a moving sound with a changing pitch, similar to the siren of an passing ambulance. Mixing the effect sound with the dry sound will create a unique chorus effect.



	LFO Mode Switches LFO operation mode	Loop, 1-Shot [™] , D [™]
a	a Src OffTempo When LFO Mode is set to 1-Shot, this modulation source triggers the L	
b	LFO Sync Switches between LFO reset on and off when LFO Mor	Off, On de is set to Loop™ଙ
		.0220.00Hz ::009, D
с	Src Selects the modulation source of LFO speed	OffTempo
	Amt -20. Sets the modulation amount of LFO speed	00+20.00Hz
	BPM/MIDI Sync Switches between using the frequency of the LFO spee tempo and notes	Off, On ed and using the :009, ح ا فیت
d	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 ☞ Fx:009
	Base Note $\mathfrak{Z}, \mathfrak{Z}_3, \mathfrak{Z}_3$ Selects the type of notes that specify the LFO speed	, , , , , , , , , , , , , , , , , , ,
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
	Pitch Depth Sets the pitch variation of the moving sound	0100 ☞, D^{-mod}
е	Src Selects the modulation source of pitch variation	OffTempo
	Amt Sets the modulation amount of pitch variation	-100+100
	Pan Depth Sets the panning of the moving sound	-100+100 ☞, D^{-mod}
f	Src Selects the modulation source of panning	OffTempo
	Amt Sets the modulation amount of panning	-100+100
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet unds," on page 323
g	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: LFO Mode, a: Src, b: LFO Sync

The "LFO Mode" parameter switches LFO operation mode. When Loop is selected, the Doppler effect will be created repeatedly. If "LFO Sync" is set to **On**, the LFO will be reset when the modulation source specified with the "Src" parameter is turned on. When "LFO Mode" is set to **1-Shot**, the Doppler effect is created only once when the modulation source specified in the "Src" field is turned on. At this time if you do not set the "Src" parameter;

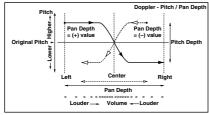
the Doppler effect will not be created, and no effect sound will be output. The effect is off when a value for the modulation source specified for the "Src" parameter is smaller than 64, and the effect is on when the value is 64 or higher. The Doppler effect is triggered when the value changes from 63 or smaller to 64 or higher.

e: Pitch Depth

With the Doppler effect, the pitch is raised when the sound approaches, and the pitch is lowered when the sound goes away. This parameter sets this pitch variation.

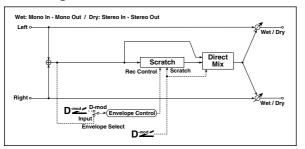
f: Pan Depth

This parameter sets the width of the stereo image of the effect sound. With larger values, the sound seems to come and go from much further away. With positive values, the sound moves from left to right; with negative values, the sound moves from right to left.



031: Scratch

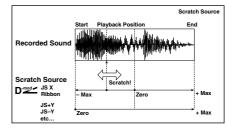
This effect is applied by recording the input signal and moving the modulation source. It simulates the sound of scratches you can make using a turntable.



a	Scratch Source Selects the modulation source for simulation control	OffTempo ☞, D	
b	Response Sets the speed of the response to the Scratch Source	0100 #38	
c	Envelope Select Selects whether the start and end of recording is contro tion source or the input signal level	D-mod, Input blied via the modula- ^{INN} , D ^{-mod}	
C	Src Selects the modulation source that controls recording w is set to D-mod	OffTempo hen Envelope Select	
d	Threshold 0100 Sets the recording start level when Envelope Select is set to Input		
е	Response Sets the speed of the response to the end of recording	0100 ∎⊛	
f	Direct Mix Always On, Always Of Selects how a dry sound is mixed	f, Cross Fade	
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet unds," on page 323	
g	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323		
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100	

a: Scratch Source, b: Response

The Scratch Source parameter enables you to select the modulation source that controls simulation. The value of the modulation source corresponds to the playback position. The Response parameter enables you to set the speed of the response to the modulation source.



c: Envelope Select, c: Src, d: Threshold

When "Envelope Select" is set to **D-mod**, the input signal will be recorded only when the modulation source value is 64 or higher. When "Envelope Select" is set to **Input**, the input signal will be recorded only when its level is over the Threshold value. The maximum recording time is 1365msec. If this is exceeded, the recorded data will start being erased from the top.

e: Response

This parameter enables you to set the speed of the response to the end of recording. Set a smaller value when you are recording a phrase or rhythm pattern, and set a higher value if you are recording only one note.

f: Direct Mix

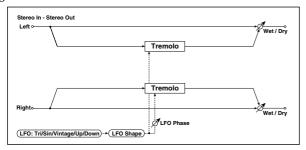
With **Always On**, a dry sound is usually output. With **Always Off**, dry sounds are not output. With **Cross Fade**, a dry sound is usually output, and it is muted only when scratching. Set Wet/Dry to **Wet** to use this parameter effectively.

Mod./P.Shift

Other modulation and pitch shift effects

032: Tremolo

This effect modulates the volume level of the input signal. The effect is stereo, and offsetting the LFO of the left and right phases from each other produces a tremolo effect between left and right.



a	LFO Waveform Triangle, Sine, Vinta Selects LFO Waveform	lge, Up, Down I⊠
a	LFO Shape Determines how much the LFO waveform is changed	–100+100 ☞ Fx:020
b	LFO Phase [degree] Sets the LFO phase difference between the left and rig	–180+180 ht জ
		0.0220.00Hz ::009, D - <u>mod</u>
с	Src Selects the modulation source of LFO speed	OffTempo
	Amt -20.0 Sets the modulation amount of LFO speed	00+20.00Hz
	BPM/MIDI Sync Off, On Switches between using the frequency of the LFO speed and using the tempo and notes	
d	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 ☞ Fx:009
	Base Note $\$, \$, \flat_3, \flat_3$ Selects the type of notes that specify the LFO speed	, , , , , , , , , , , , , , , , , , ,
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
	Depth Sets the depth of LFO modulation	0100 D ⁻
е	Src OffTempo Selects the modulation source of the depth of modulation	
	Amt -100+100 Sets the modulation amount of the depth of modulation	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
f	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a:LFO Waveform

This parameter selects the LFO waveform. **Vintage** wave simulates the characteristics of the tremolo created on a guitar amplifier. Combining this effect with the Amp Simulation will make a realistic, vintage tremolo amplifier sound.

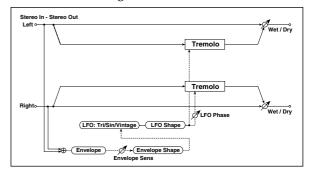


b: LFO Phase [degree]

This parameter determines the difference between the left and right LFO phases. A higher value will simulate the auto-pan effect in which the sound is panned between left and right.

033: Envelope Tremolo

This effect uses the input signal level to modulate a stereo tremolo. You can simulate a tremolo effect that becomes deeper as it fades out while the level gets lower.



-		
а	Envelope Sens (Envelope Sensitivity) Sets the envelope sensitivity of the input signal	0100
a	Envelope Shape Sets the envelope curve shape of the input signal	-100+100
b	LFO Waveform Triangle, Selects LFO Waveform	Sine, Vintage
D	LFO Shape Determines how much the LFO waveform is changed	−100+100 ☞ Fx:020
с	LFO Phase [degree] Sets the LFO phase difference between the left and rig	–180+180 ht IS Fx:032
d	LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz ⊮જ
u	Envelope Amount [Hz] -20. Sets the changes of the LFO speed according to the in	00+20.00Hz put signal level®
	Depth Sets the depth of LFO modulation	0100 ®
e	Envelope Amount Sets the changes of the modulation depth according to	-100+100 the input signal level
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet ounds," on page 323
f	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

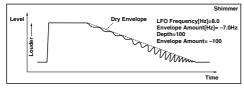
d: LFO Frequency [Hz], d: Envelope Amount [Hz], e: Depth, e: Envelope Amount

These parameters set the modulation via an envelope (input signal level).

The "LFO speed" is obtained by adding the "LFO Frequency" value to the "Envelope Amount" value multiplied by the input signal. The LFO modulation depth is obtained by adding the Depth value to the "Envelope Amount" value multiplied by the input signal level.

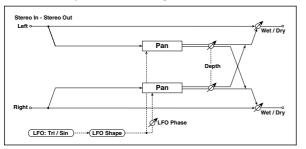
• The following example indicates that the "Depth" is 0 with an LFO Frequency of 1.0Hz and the maximum input, and that the "Depth" is 100 with a Frequency of 8.0Hz with zero input.

"LFO Frequency [Hz]"=8.0, "Envelope Amount [Hz]"=–7.0 "Depth"=100, "Envelope Amount"=–100



034: Auto Pan

This Auto Pan effect pans sound between left and right. It is stereo, and shifting the left and right LFO phases from each other will simulate the sound of the left and right channels crossing over each other by turns, or chasing each other.



a Selects LFO Waveform LFO Shape -100+100 Determines how much the LFO waveform is changed -100+100 b LFO Phase [degree] -180+180 Sets the LFO phase difference between the left and right -180+180 c Sets the LFO speed -100+20.00Hz Sets the LFO speed Src OffTempo Amt -20.00+20.00Hz Sets the modulation source of LFO speed Off. On Amt -20.00+20.00Hz Sets the modulation amount of LFO speed Off. On Switches between using the frequency of the LFO speed and using the tempo and notes Set Fx:009, Set Fx:009, Set Fx:009, Set Fx:009, Set Set NIDI Clock and assigns tempo d BPM Selects the type of notes that specify the LFO speed Set Fx:009 Times x1x16 Fx:009 Fx:009 Times x1x16 Sets the depth of LFO modulation D100 Sets the depth of LFO modulation OffTempo Selects the modulation source of the depth of modulation			1
LFO Shape -100+100 Determines how much the LFO waveform is changed -100+100 b LFO Phase [degree] -180+180 Sets the LFO phase difference between the left and right E® c Sets the LFO speed E® Fx:009, Degree Src Src OffTempo Sets the modulation source of LFO speed Amt -20.00+20.00Hz Sets the modulation amount of LFO speed BPM/MIDI Sync Off. On Switches between using the frequency of the LFO speed and using the tempo and notes E® Fx:009, Degree d BPM Selects MIDI Clock and assigns tempo MILDI, 40240 Base Note N, J, J, J, J, J, J, J, J, J, J, J, J, J,			Triangle, Sine
b Sets the LFO phase difference between the left and right Image: Constraint of the left and right c LFO Frequency [Hz] 0.0220.00Hz Sets the LFO speed Image: Constraint of left of modulation d Sets the left of LFO modulation d Bepth Sets the opt of notes that specify the LFO speed sets the left of LFO modulation Image: Sets the depth of LFO modulation d Sets the depth of LFO modulation for constraint of the depth of modulation Image: Sets the modulation amount of the depth of modulation e Sets the modulation amount of the depth of modulation	a		
c Sets the LFO speed Image: Sets the modulation source of LFO speed Amt -20.00+20.00Hz Sets the modulation amount of LFO speed OffTempo Amt -20.00+20.00Hz Sets the modulation amount of LFO speed Off. On Switches between using the frequency of the LFO speed and using the tempo and notes Image: Sets Fx:009, Image: Sets the tempo and notes d BPM BPM g BPM MIDI Clock and assigns tempo Base Note Image: Sets the type of notes that specify the LFO speed Image: Sets Fx:009 Times x1x16 Image: Sets the depth of LFO modulation Depth Sets the depth of LFO modulation Image: Sets the modulation source of the depth of modulation e Sets the modulation amount of the depth of modulation -100+100	b		
c Selects the modulation source of LFO speed Control of the Cont			
Sets the modulation amount of LFO speed BPM/MIDI Sync Off, On Switches between using the frequency of the LFO speed and using the tempo and notes Image: Sets the Structure BPM BPM Selects MIDI Clock and assigns tempo Image: Selects MIDI Clock and assigns tempo Base Note Image: Selects the type of notes that specify the LFO speed Times x1x16 Sets the number of notes that specify the LFO speed Image: Sets the depth of LFO modulation Sets the depth of LFO modulation Image: Sets the modulation source of the depth of modulation Armt -100+100	с		OffTempo
d Switches between using the frequency of the LFO speed and using the tempo and notes d BPM getects MIDI Clock and assigns tempo MIDI, 40240 Base Note \$, \$, \$, \$, \$, \$, \$, \$, \$, \$, \$, \$, \$, \$			00+20.00Hz
d Selects MIDI Clock and assigns tempo Image: Fx:009 Base Note A, J, J, J, J, J, J, J, J, J, J, J, J, J,		Switches between using the frequency of the LFO speed and using the	
Selects the type of notes that specify the LFO speed Image: Fx:009 Times x1x16 Sets the number of notes that specify the LFO speed Image: Fx:009 Depth 0100 Sets the depth of LFO modulation Dummedia Src OffTempo Selects the modulation source of the depth of modulation -100+100 Amt -100+100	d	5	MIDI, 40240 S Fx:009
Sets the number of notes that specify the LFO speed FX:009 Depth 0100 Sets the depth of LFO modulation Drest Src OffTempo Selects the modulation source of the depth of modulation -100+100 Armt -100+100		Base Note $\mathfrak{Z}, \mathfrak{Z}_3, \mathfrak{Z}_3$ Selects the type of notes that specify the LFO speed	, , , , , , , , , , , , , , , , , , ,
Sets the depth of LFO modulation Src OffTempo Selects the modulation source of the depth of modulation -100+100 Amt -100+100			
e Selects the modulation source of the depth of modulation Amt Sets the modulation amount of the depth of modula100+100			0100 D ^{-mod}
Sets the modulation amount of the depth of modula-	е		
		Sets the modulation amount of the depth of modula-	-100+100

	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so D ^{mod}	9999:1, Wet ounds," on page 323
f	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

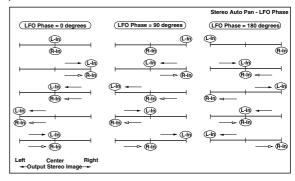
a: LFO Shape

You can change the panning curve by modifying the LFO waveform.

b: LFO Phase

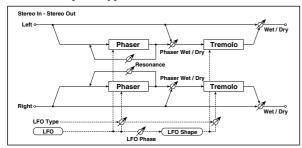
This parameter determines the difference in the left and right LFO phases. When you change the value gradually from 0, the sound from the left and right channels will chase each other around. If you set the parameter to +180 or -180, the sound from each channel will cross over each other.

You need to input different sounds to each channel in order for this parameter to be effective.



035: Phaser - Tremolo

This effect has a stereo phaser and tremolo LFOs linked together. Swelling phaser modulation and tremolo effects synchronize with each other, creating a soothing modulation effect. It is suitable for electric piano type sounds.



	Type: Phs - TrmlPhs LR - Trml LR Selects the type of the tremolo and phaser LFOs	
а	a LFO Phase [degree] -180+180 Sets the phase difference between the tremolo and phaser LFOs	
		.0220.00Hz :009, D
b	Src Selects the modulation source of LFO speed	OffTempo
	Amt -20.0 Sets the modulation amount of LFO speed	00+20.00Hz
	BPM/MIDI Sync Switches between using the frequency of the LFO spec tempo and notes	Off, On ed and using the :009, مرجع
с	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 IS Fx:009
	Base Note $\mathfrak{H}, \mathfrak{h}_3, \mathfrak{h}_3$ Selects the type of notes that specify the LFO speed	, , , , , , , , , , , , , , , , , , ,
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
d	Phaser Manual Sets the phaser frequency range	0100
u	Resonance Sets the phaser resonance amount	-100+100
	Phaser Depth Sets the phaser modulation depth	0100 D™™
e	Src OffTempo Selects the modulation source for the phaser modulation depth	
е		
e		n depth -100+100
f	Selects the modulation source for the phaser modulation	n depth -100+100 depth ory, 2:99Wet
	Selects the modulation source for the phaser modulation Amt Sets the modulation amount for the phaser modulation Phaser Wet/DryWet2:99, D	n depth -100+100 depth ory, 2:99Wet
f	Selects the modulation source for the phaser modulation Amt Sets the modulation amount for the phaser modulation Phaser Wet/DryWet2:99, D Sets the balance between the phaser effect and dry soo Tremolo Shape	-100+100 depth ory, 2:99Wet unds -100+100
f	Selects the modulation source for the phaser modulation Amt Sets the modulation amount for the phaser modulation Phaser Wet/Dry —Wet2:99, D Sets the balance between the phaser effect and dry sou Tremolo Shape Sets the degree of the tremolo LFO shaping Tremolo Depth	nn depth -100+100 depth bry, 2:99Wet unds -100+100 F\$colored{c
f	Selects the modulation source for the phaser modulation Amt Sets the modulation amount for the phaser modulation Phaser Wet/Dry —Wet2:99, D Sets the balance between the phaser effect and dry sou Tremolo Shape Sets the degree of the tremolo LFO shaping Tremolo Depth Sets the tremolo modulation depth Src	nn depth -100+100 depth vry, 2:99Wet unds ☞ -100+100 ☞ Fx:020 0100 D [™] OffTempo on depth -100+100
f	Selects the modulation source for the phaser modulation Amt Sets the modulation amount for the phaser modulation Phaser Wet/Dry —Wet2:99, D Sets the balance between the phaser effect and dry sou Tremolo Shape Sets the degree of the tremolo LFO shaping Tremolo Depth Sets the tremolo modulation depth Src Selects the modulation source for the tremolo modulation Amt Sets the modulation amount of the tremolo modulation	nn depth -100+100 depth vry, 2:99Wet unds ☞ -100+100 ☞ Fx:020 0100 D [™] OffTempo on depth -100+100 depth 9999:1, Wet
f	Selects the modulation source for the phaser modulation Amt Sets the modulation amount for the phaser modulation Phaser Wet/Dry —Wet2:99, D Sets the balance between the phaser effect and dry sou Tremolo Shape Sets the degree of the tremolo LFO shaping Tremolo Depth Sets the tremolo modulation depth Src Selects the modulation source for the tremolo modulation Amt Sets the modulation amount of the tremolo modulation Wet/Dry Dry, 1:: Table , "Sets the balance between the effect and dry so	nn depth -100+100 depth hy, 2:99Wet unds -100+100
f g h	Selects the modulation source for the phaser modulation Amt Sets the modulation amount for the phaser modulation Phaser Wet/DryWet2:99, D Sets the balance between the phaser effect and dry so Tremolo Shape Sets the degree of the tremolo LFO shaping Tremolo Depth Sets the tremolo modulation depth Src Selects the modulation source for the tremolo modulation Amt Sets the modulation amount of the tremolo modulation Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so Fig. D	nn depth -100+100 depth hy, 2:99Wet unds -100+100

a: Type, a: LFO Phase [degree]

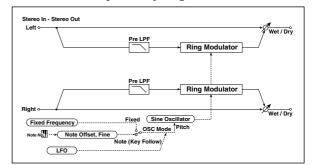
Select the type of phaser LFO and tremolo LFO for the "Type" parameter. How the effect sound moves or rotates depends on the type of LFO. Selecting "LFO Phase" enables you to offset the timing of the phaser peak and control a subtle movement and rotation of the sound.

f: Phaser WetDry, i: Wet/Dry

The "Phaser Wet/Dry" parameter sets the balance between the phaser output and the dry sound. The "Wet/Dry" parameter sets the balance between the final phaser and tremolo output level and the dry sound.

036: Ring Modulator

This effect creates a metallic sound by applying the oscillators to the input signal. Use the LFO or Dynamic Modulation to modulate the oscillator to create a radical modulation. Matching the oscillator frequency with a note number will produce a ring modulation effect in specific key ranges.



а	Pre LPF 0100 Sets the damping amount of the high range input to the ring modulator®		
b	OSC Mode Fixed, Note (Key Follow) Switching between specifying the oscillator frequency and using a note number		
	Fixed Frequency [Hz] Sets the oscillator frequency when OSC Mode is set to	012.00kHz Fixed ☞, D -====	
с	Src Selects the modulation source for the oscillator frequen is set to Fixed	OffTempo cy when OSC Mode	
	Amt -12.0 Sets the modulation amount of the oscillator frequency set to Fixed	0+12.00kHz when OSC Mode is	
Note Offset Sets the pitch difference from the original note when d Note (Key Follow)		-48+48 SC Mode is set to ⊮ଙ୍କ	
	Note Fine Fine-adjusts the oscillator frequency	–100+100 ⊮જ	
	Sets the LFO speed of the oscillator frequency modulated	.0220.00Hz iion :009, D <u>med</u>	
е	Src Selects the modulation source of LFO speed	OffTempo	
	Amt -20.0 Sets the modulation amount of LFO speed	00+20.00Hz	
	BPM/MIDI Sync Switches between using the frequency of the LFO spee tempo and notes	Off, On ed and using the :009, ح ا یس	
f	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 ☞ Fx:009	
	Base Note $\mathfrak{Z}, \mathfrak{Z}_3, \mathfrak{Z}_3$ Selects the type of notes that specify the LFO speed	, , , , , , , , , , , , , , , , , , ,	
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009	
	LFO Depth Sets the depth of LFO modulation for the oscillator freq	0100 uency D ⁻ ™d⊄	
g	Src Selects the modulation source of the depth of modulation	OffTempo on	
	Amt Sets the modulation amount of the depth of modulation	-100+100	

	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so Dred	9999:1, Wet ounds," on page 323
h	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: Pre LPF

This parameter enables you to set the damping amount of the high range sound input to the ring modulator. If the input sound contains lots of harmonics, the effect may sound dirty. In this case, cut a certain amount of high range.

b: OSC Mode

This parameter determines whether or not the oscillator frequency follows the note number.

c: Fixed Frequency [Hz]

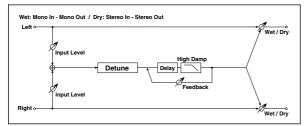
This parameter sets the oscillator frequency when "OSC Mode" is set to **Fixed**.

d: Note Offset, d: Note Fine

These parameters for the oscillator are used when "OSC Mode" is set to **Note (Key Follow)**. The "Note Offset" sets the pitch difference from the original note in semitone steps. The "Note Fine" parameter fine-adjusts the pitch in cent steps. Matching the oscillator frequency with the note number produces a ring modulation effect in the correct key.

037: Detune

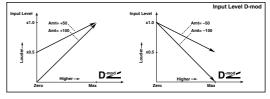
Using this effect, you can obtain a detune effect that offsets the pitch of the effect sound slightly from the pitch of the input signal. Compared to the chorus effect, a more natural sound thickness will be created.



	Pitch Shift [cent] Sets the pitch difference from the input signal	–100+100cent D ^{-mod}
a	Src Selects the modulation source of the pitch shift	OffTempo
	Amt Sets the modulation amount of the pitch shift	-100+100cent
b	Delay Time [msec] Sets the delay time	01000msec
с	Feedback Sets the feedback amount	-100+100
	High Damp [%] Sets the damping amount in the high range	0100%
d	Input Level Dmod [%] Sets the modulation amount of the input level	-100+100 ☞, D -≝
ŭ	Src Selects the modulation source for the input level	OffTempo ®
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet ounds," on page 323
е	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

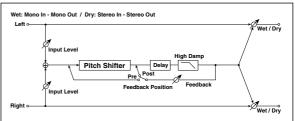
d: Input Level Dmod [%], d: Src

This parameter sets the dynamic modulation of the input level.



038: Pitch Shifter

This effect changes the pitch of the input signal. You can select from three types: Fast (quick response), Medium, and Slow (preserves tonal quality). You can also create an effect in which the pitch is gradually raised (or dropped) using the delay with feedback.



a	Mode Slow, Medium, Fast Switches Pitch Shifter mode	
	Pitch Shift [1/2tone] Sets the pitch shift amount by steps of a semitone	-24+24 ***, D****
b	Src Selects the modulation source of pitch shift amount	OffTempo ₽≌
	Amt Sets the modulation amount of pitch shift amount	–24+24 ⊮જે
c	Fine [cent] Sets the pitch shift amount by steps of a cent	–100+100cent ☞, D -≝
	Amt Sets the modulation amount of pitch shift amount	–100+100cent ⊮ଙ
d	Delay Time [msec] Sets the delay time	01000msec
е	Feedback Position Switches the feedback connection.	Pre, Post ®
f	Feedback Sets the feedback amount	–100+100 ⊮ଙ
	High Damp [%] Sets the damping amount in the high range	0100%
	Input Level Dmod [%] Sets the modulation amount of the input level	–100+100 x:037, D ^{_mod} ≤
g	Src Selects the modulation source for the input level	OffTempo IS Fx:037
Wet/Dry Dry, 1:9999:1, Table , "Sets the balance between the effect and dry sounds," on D		
h	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: Mode

This parameter switches the pitch shifter operating mode. With **Slow**, tonal quality will not be changed too much. With **Fast**, the effect becomes a Pitch Shifter that has a quick response, but may change the tone. **Medium** is in between these two. If you do not need to set too much pitch shift amount, set this parameter to **Slow**. If you wish to change the pitch significantly, use **Fast**.

b: Pitch Shift [1/2tone], b: Src, b: Amt, c: Fine [cent], c: Amt

The amount of pitch shift will use the value of the "Pitch Shift" plus the "Fine" value. The amount of modulation will use the c: Amt value plus d: "Amt."

Modulation Source is used both for "Pitch Shift" and "Fine."

e: Feedback Position, f: Feedback

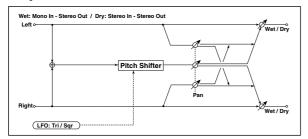
When "Feedback Position" is set to **Pre**, the pitch shifter output is again input to the pitch shifter. Therefore, if you specify a higher value for the Feedback parameter, the pitch will be raised (or lowered) more and more each time feedback is repeated.

If "Feedback Position" is set to **Post**, the feedback signal will not pass through the pitch shifter again. Even if you specify a higher value for the Feedback parameter, the pitch-shifted sound will be repeated at the same pitch.

039: Pitch Shift Mod.

(Pitch Shift Modulation)

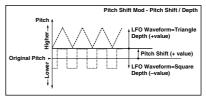
This effect modulates the detuned pitch shift amount using an LFO, adding a clear spread and width to the sound by panning the effect sound and dry sound to the left and right. This is especially effective when the effect sound and dry sound output from stereo speakers are mixed.



a	Pitch Shift [cent] Sets the pitch difference from the input signal	–100+100cent ⊮ଙ
b	LFO Waveform Selects LFO Waveform	Triangle, Square
		.0220.00Hz :009, D <u>mod</u>
с	Src Selects the modulation source of LFO speed	OffTempo
	Amt -20.0 Sets the modulation amount of LFO speed	00+20.00Hz
	BPM/MIDI Sync Switches between using the frequency of the LFO spee tempo and notes	Off, On ed and using the :009, ح ا فیت
d	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 ☞ Fx:009
	Base Note $\begin{array}{c} \begin{array}{c} arra$	J³, J, J³, J, o ☞ Fx:009
	Times Sets the number of notes that specify the LFO speed	x1x16 ☞ Fx:009
	Depth Sets the LFO modulation depth for pitch shift amount	–100+100 ☞, D ≝≝
е	Src Selects the modulation source of the depth of modulation	OffTempo
	Amt Sets the modulation amount of the depth of modulation	-100+100
f	Pan L, 1:9999:1, R Sets the panning effect sound and dry sound separately	
	Wet/Dry Dry, 1:: Table , "Sets the balance between the effect and dry so "", Dreef	9999:1, Wet unds," on page 323
g	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: Pitch Shift [cent], e: Depth

These parameters set the amount of pitch shift and amount of modulation by means of the LFO.

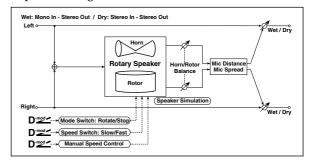


f: Pan, g: Wet/Dry

The Pan parameter pans the effect sound and dry sound to the left and right. With L, the effect sound is panned left, and the dry sound is panned right. With a Wet/Dry = **Wet** setting, the effect and dry sound will be output in a proportion of 1:1.

040: Rotary Speaker

This effect simulates a rotary speaker, and obtains a more realistic sound by simulating the rotor in the low range and the horn in the high range separately. The effect also simulates the stereo microphone settings.



	Mode Switch Switches between speaker rotation and stop	Rotate, Stop	
а	Src Selects the modulation source that toggles between rot	OffTempo ation and stop	
	Sw To Selects switching mode of the modulation source that to tion and stop	ggle, Moment oggles between rota- For	
	Speed Switch Switches the speaker rotation speed between slow and	Slow, Fast fast D -	
b	Src Selects the modulation source that toggles between slo	OffTempo ow and fast	
	Sw To Selects switching mode of the modulation source that to and fast	ggle, Moment oggles between slow F3	
с	Manual Speed Ctrl (Manual Speed Control) OffTempo Selects the modulation source in case the rotation speed is changed directly		
d	Horn Acceleration How quickly the horn rotation speed in the high range is	0100 s switched ®	
a	Horn Ratio Stop, 0.502.00 Adjusts the (high-range side) horn rotation speed. Standard value is 1.00. Selecting "Stop" will stop the rotation		
	Rotor Acceleration Determines how quickly the rotor rotation speed in the I	0100 ow range is switched	
e	Rotor Ratio Stop, 0.502.00 Adjusts the (low-range side) rotor rotation speed. Standard value is 1.00. Selecting "Stop" will stop the rotation		
f	Horn/Rotor Balance Rotor, 199, Horn Sets the level balance between the high-range horn and low-range rotor		
	Mic Distance Sets the distance between the microphone and rotary s	0100 speaker 🖙	
g	Mic Spread Sets the angle of left and right microphones	0100 ⊮⊛	

		Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet ounds," on page 323
Amt		Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
		Table , "Sets the modulation amount of the effect bal-	-100+100

a: Sw

This parameter sets how the modulation source switches between rotation and stop.

When "Sw" = Toggle, the speaker rotates or stops alternately each time you press the pedal or operate the joystick.

Each time the value for the modulation source exceeds 64, the MD speaker rotates or stops alternately.

When "Sw" = Moment, the speaker is rotating. It stops only when you press the pedal or operate the joystick.



Rotation will occur when the value of the modulation source is less than 64, and will stop when the value is 64 or greater.

b: Sw

This parameter sets how the rotation speed (slow and fast) is switched via the modulation source.

When "Sw" = Toggle, the speed is switched between slow and fast each time you press the pedal or operate the joystick.

Slow/fast will alternate each time the value of the modulation MD source exceeds 64.

When "Sw" = Moment, the speed is usually slow. It becomes fast only when you press the pedal or operate the joystick.

When a value for the modulation source is less than 64, "slow" MD speed is selected, and when the value is 64 or higher, "fast" is selected.

c: Manual Speed Ctrl

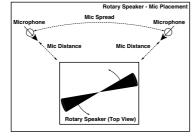
If you wish to control the speaker rotation speed manually, not switching between Slow and Fast, select the modulation source in the "Manual Speed Ctrl" field. If manual control is not necessary, set this field to Off.

d: Horn Acceleration, e: Rotor Acceleration

On a real rotary speaker, the rotation speed is accelerated or decelerated gradually after you switch the speed. The "Horn Acceleration" parameter sets the speed at which the rotation is accelerated or decelerated.

g: Mic Distance, g: Mic Spread

This is a simulation of stereo microphone settings.

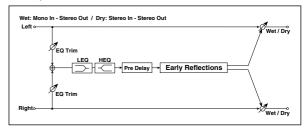


ER/Delay

Early reflection and delay effects

041: Early Reflections

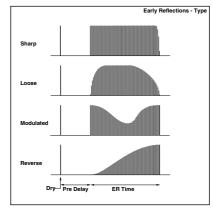
This effect is only the early reflection part of a reverberation sound, and adds presence to the sound. You can select one of the four decay curves.



а	Type Sharp, Loose, Modulated, Reverse Selects the decay curve for the early reflection	
b	ER Time [msec] Sets the time length of early reflection	10800msec
с	Pre Delay [msec] Sets the time taken from the original sound to the first e	0200msec early reflection
d	EQ Trim Sets the input level of EQ applied to the effect sound	0100
	Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-15.0+15.0dB
e	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	-15.0+15.0dB
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
f	f Src Off Table , "Selects the modulation source of the effect balance," of	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

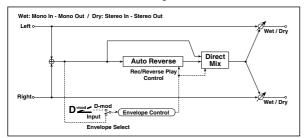
a: Type

This parameter selects the decay curve for the early reflection.



042: Auto Reverse

This effect records the input signal and automatically plays it in reverse (the effect is similar to a tape reverse sound).



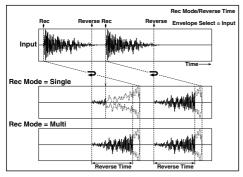
	Rec Mode	Single, Multi
а	Sets the recording mode	IS
b	Reverse Time [msec] 2 Sets the maximum duration of the reverse playback	01320msec
	Envelope Select Selects whether the start and end of recording is contro tion source or the input signal level	D-mod, Input blled via the modula- ^{IST} , D -mod
C Src OffTemp Selects the modulation source that controls recording when Envelop is set to D-mod		
d	Threshold 0100 Sets the recording start level when Envelope Select is set to Input	
е	Response Sets the speed of the response to the end of recording	0100 ☞ Fx:031
f	Direct Mix Always On, Always Off, Cross Fade Selects how a dry sound is mixed Fx:031	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
g	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: Rec Mode, b: Reverse Time

When "Rec Mode" is set to **Single**, you can set up to 1320msec for "Reverse Time. "If recording starts during the reverse playback, the playback will be interrupted.

When "Rec Mode" is set to **Multi**, you can make another recording during the reverse playback. However, the maximum Reverse Time is limited to 660msec.

If you wish to record a phrase or rhythm pattern, set "Rec Mode" to **Single**. If you record only one note, set "Rec Mode" to **Multi**. The "Reverse Time" parameter specifies the maximum duration of the reverse playback. The part in excess of this limit will not be played in reverse. If you wish to add short pieces of the reverse playback of single notes, make the "Reverse Time" shorter.



c: Envelope Select, c: Src, d: Threshold

These parameters select the source to control the start and end of recording.

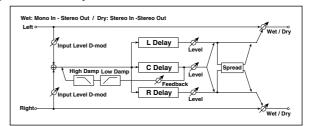
When "Envelope Select" is set to **D-mod**, the input signal will be recorded only when the value of the modulation source selected by the Src parameter is 64 or higher.

When "Envelope Select" is set to **Input**, the input signal will be recorded only when its level exceeds the Threshold level.

When recording is completed, reverse playback starts immediately.

043: L/C/R Delay

This multitap delay outputs three Tap signals to the left, right, and center respectively. You can also adjust the left and right spread of the delay sound.



	L Delay Time [msec]	01360msec	
a	Sets the delay time of TapL Level Sets the output level of TapL	050	
	C Delay Time [msec] Sets the delay time of TapC	01360msec	
b	Level Sets the output level of TapC	050	
	R Delay Time [msec] Sets the delay time of TapR	01360msec	
С	Level Sets the output level of TapR	050	
	Feedback (C Delay) Sets the feedback amountof TapC	-100+100 D^{™od}	
d	Src OffTempo Selects the modulation source of the TapC feedback amount		
	Amt -100+100 Sets the modulation amount of the TapC feedback amount		
е	High Damp [%] Sets the damping amount in the high range	0100% ®	
е	Low Damp [%] Sets the damping amount in the low range	0100% ®	
f	Input Level Dmod [%] -100+100 Sets the modulation amount of the input level		
1	Src Selects the modulation source for the input level	OffTempo IS Fx:037	
g	Spread Sets the width of the stereo image of the effect sound	050 ®	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323		
h	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323		
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100	

e: High Damp [%], e: Low Damp [%]

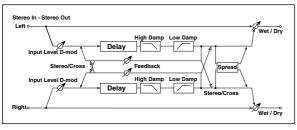
These parameters set the damping amount of high range and low range. The tone of the delayed sound becomes darker and lighter as it feeds back.

g: Spread

This parameter sets the pan width of the effect sound. The stereo image is widest with a value of **50**, and the effect sound of both channels is output from the center with a value of **0**.

044: Cross Delay

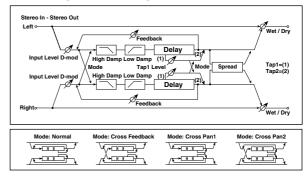
This is a stereo delay, and can by used as a cross-feedback delay effect in which the delay sounds cross over between the left and right by changing the feedback routing.



a	Stereo/Cross Switches between stereo delay and cross-feedback de	Stereo, Cross lay
b	L Delay Time [msec] Sets the delay time for the left channel	0.0680.0msec
с	R Delay Time [msec] Sets the delay time for the right channel	0.0680.0msec
	L Feedback Sets the feedback amount for the left channel	-100+100 D ^{-mod}
d	Src Selects the modulation source of feedback amount	OffTempo
	Amt L Sets the modulation amount of the left channel feedbac	-100+100 ck
_	R Feedback Sets the feedback amount for the right channel	-100+100 D ^{-mod}
e Amt R - Sets the modulation amount of the right channel feedback		-100+100 ack
f	High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043
g	Low Damp [%] Sets the damping amount in the low range	0100% ☞ Fx:043
h	Input Level Dmod [%] -100+100 Sets the modulation amount of the input level ☞ Fx:037, Dref	
	Src Selects the modulation source for the input level	OffTempo ☞ Fx:037
i	Spread Sets the width of the stereo image of the effect sound	–50+50 ☞ Fx:043
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet ounds," on page 323
j	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

045: Multitap Delay

The left and right Multitap Delays have two taps respectively. Changing the routing of feedback and tap output allows you to create various patterns of complex effect sounds.



a	Mode Normal, Cross Feedback, Cross Pan1, Cross Pan2 Switches the left and right delay routing	
b	Tap1 Time [msec] Sets the Tap1 delay time	0.0680.0msec
с	Tap2 Time [msec] Sets the Tap2 delay time	0.0680.0msec
d	Tap1 Level Sets the Tap1 output level	0100 IS
	Feedback (Tap2) Sets the Tap2 feedback amount	-100+100 D™
е	Src Selects the modulation source of the Tap2 feedback an	OffTempo nount
	Amt Sets the modulation amount of the Tap2 feedback amou	-100+100 unt
f	High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043
g	Low Damp [%] Sets the damping amount in the low range	0100% ☞ Fx:043
h	Input Level Dmod [%] −100+100 Sets the modulation amount of the input level IST Sx:037, D	
	Src Selects the modulation source for the input level	OffTempo IIII Fx:037
	Spread −100+100 Sets the width of the stereo image of the effect sound Sets the width of the stereo image of the effect sound	
i	Src OffTempo Selects the modulation source of the effect sound's stereo image width	
	Amt -100+100 Sets the modulation amount of the effect sound's stereo image width	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
j	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: Mode

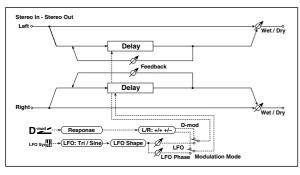
You can change how the left and right delay signals are panned by modifying the routing of the left and right delay as shown in the figure above. You need to input different sounds to each channel in order for this parameter to be effective.

d: Tap1 Level

This parameter sets the output level of Tap1. Setting a different level from Tap2 will add a unique touch to a monotonous delay and feedback.

046: Modulation Delay

This stereo delay uses an LFO to sweep the delay time. The pitch also varies. You will obtain a delay sound with swell and shimmering. You can also control the delay time using a modulation source.



а	Modulation Mode Switches between LFO modulation control and modula	LFO, D-mod tion source control
	D-mod Modulation Reversed L/R control by modulation source	L/R:+/+, L/R:+/-
b	Src Selects the modulation source that controls delay time	OffTempo
	Response Sets the rate of response to the modulation source	030
с	LFO Waveform Selects LFO Waveform	Triangle, Sine
C	LFO Shape Determines how much the LFO waveform is changed	−100+100 ™ Fx:020
d	LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
е	LFO Sync Switches LFO reset off/on	Off, On ™ [™] , D ™
C	Src Selects the modulation source that resets the LFO	OffTempo
f	L LFO Phase [degree] Sets the phase obtained when the left LFO is reset	–180+180 ⊮જ
1	R LFO Phase [degree] Sets the phase obtained when the right LFO is reset	–180+180 ⊮≌
~	L Depth Sets the depth of the left LFO modulation	0200
g	R Depth Sets the depth of the right LFO modulation	0200
h	L Delay Time [msec] Sets the left delay time	0.0500.0
n	R Delay Time [msec] Sets the right delay time	0.0500.0
	L Feedback Sets the feedback amount of left delay	-100+100
i	R Feedback Sets the feedback amount of right delay	-100+100
	Wet/Dry -Wet1:99, E Table , "Sets the balance between the effect and dry so ⊮જ F:	
j	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

b: D-mod Modulation

When the modulation source is used for control, this parameter reverses the left and right modulation direction.

e: LFO Sync, e: Src,

f: L LFO Phase [degree], f: R LFO Phase [degree]

The LFO can be reset via a modulation source.

The "Src" parameter sets the modulation source that resets the LFO. For example, you can assign Gate as a modulation source so that the sweep always starts from the specified point.

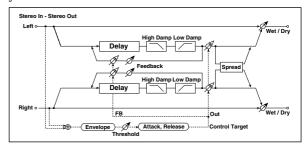
"L LFO Phase" and "R LFO Phase" set the phase obtained when the left and right LFOs are reset. In this way, you can create changes in pitch sweep for the left and right channels individually.



The effect is off when a value of the modulation source specified in the "Src" parameter is 63 or smaller, and the effect is on when the value is 64 or higher. The LFO is triggered and reset to the "L LFO Phase" and "R LFO Phase" settings when the value changes from 63 or smaller to 64 or higher.

047: Dynamic Delay

This stereo delay controls the level of delay according to the input signal level. You can use this as a ducking delay that applies delay to the sound only when you play keys at a high velocity or only when the volume level is low.



	Control Target Selects from no control, output, and feedback	None, Out, FB
а	Polarity Reverses level control	+, - ®
b	Threshold Sets the level to which the effect is applied	0100 ™®
U	Offset Sets the offset of level control	0100 ™®
с	Attack Sets the attack time of level control	1100 ™
d	Release Sets the release time of level control	1100 ™
е	L Delay Time [msec] Sets the delay time for the left channel	0.0680.0msec
f	R Delay Time [msec] Sets the delay time for the right channel	0.0680.0msec
g	Feedback Sets the feedback amount	-100+100
h	High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043
п	Low Damp [%] Sets the damping amount in the low range	0100% ☞ Fx:043
i	Spread Sets the width of the stereo image of the effect sound	−100+100 IS Fx:043
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
j	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: Control Target

This parameter selects no level control, delay output control (effect balance), or feedback amount control.

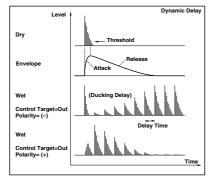
a: Polarity, b: Threshold, b: Offset, c: Attack, d: Release

The "Offset" parameter specifies the value for the "Control Target" parameter (that is set to None), expressed as the ratio relative to the parameter value (the "Wet/Dry" value with "Control Target"=**Out**, or the "Feedback" value with "Control Target"=**FB**).

When "Polarity" is **positive**, the "Control Target" value is obtained by multiplying the parameter value by the "Offset" value (if the input level is below the threshold), or equals the parameter value if the input level exceeds the threshold.

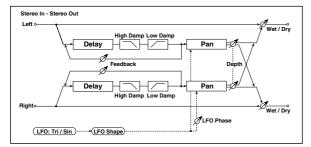
When "Polarity" is **negative**, Control Target value equals the parameter value if the input level is below the threshold, or is obtained by multiplying the parameter value by the "Offset" value if the level exceeds the threshold.

The "Attack" and "Release" parameters specify attack time and release time of delay level control.



048: Autopan Delay

This stereo delay effect pans the delay sound left and right using the LFO.

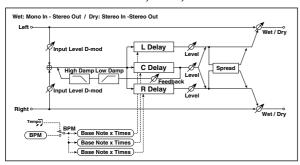


	L Delay Time [msec] Sets the delay time for the left channel	0.0680.0msec
а	L Feedback Sets the feedback amount for the left channel	-100+100
	R Delay Time [msec] Sets the delay time for the right channel	0.0680.0msec
b	R Feedback Sets the feedback amount for the right channel	-100+100
	High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043
с	Low Damp [%] Sets the damping amount in the low range	0100% ☞ Fx:043
d	LFO Waveform Selects LFO Waveform	Triangle, Sine
u	LFO Shape Determines how much the LFO waveform is changed	−100+100 IS Fx:020
е	LFO Phase [degree] -180+180 Sets the LFO phase difference between the left and right ISF Fx:034	
f	Panning Frequency [Hz] Sets the panning speed	0.0220.00Hz
	Panning Depth Sets the panning width	0100 D ^{-mod}
g	Src Selects the modulation source for the panning width	OffTempo
	Amt Set the modulation amount of the panning width	-100+100
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet ounds," on page 323
h	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

049: L/C/R BPM Delay

The L/C/R delay enables you to match the delay time with the song tempo. You can also synchronize the delay time with the arpeggiator or sequencer. If you program the tempo before performance, you can achieve a delay effect that synchronizes with the song in real-time. Delay time is set by notes.

Note: With extreme values, the sync may be lost.



a	BPM Selects MIDI Clock and assigns tempo	MIDI, 40240 ☞, ܟ̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣̣	
b	L Delay Base Note $\begin{subarray}{c} \end{subarray},subarr$	apL ⊮≊, §ymc	
	Times Sets the number of notes to specify the delay time for T	x1x16 apL 🖙	
	Level Sets the output level of TapL	050	
	C Delay Base Note $\begin{tabular}{lll} \begin{tabular}{lll} tab$, , , , , , , , , , , , , , , , , , ,	
с	Times Sets the number of notes to specify the delay time for T	x1x16 apC ™	
	Level Sets the output level of TapC	050	
	R Delay Base Note \raiset{base} , b_3 , b_3 , b_3 , b_4 , b_5 , b_5 , b_6	, , , , , , , , , , , , , , , , , , ,	
d	Times x1x16 Sets the number of notes to specify the delay time for TapR		
	Level Sets the output level of TapR	050	
	Feedback (C Delay) Sets the feedback amount of TapC	-100+100 D ™	
е	Src OffTempo Selects the modulation source for the TapC feedback		
	Amt -100+100 Sets the modulation amount of the TapC feedback		
f	High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043	
	Low Damp [%] Sets the damping amount in the low range	0100% ☞ Fx:043	
a	Input Level Dmod [%] Sets the modulation amount of the input level	–100+100 x:037, D <u>mod</u>	
g	Src Selects the modulation source for the input level	OffTempo IS Fx:037	
h	Spread Sets the width of the stereo image of the effect sound	050 IIS Fx:043	
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet unds," on page 323	
i	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100	

a: BPM, b: L Delay Base Note, b: Times, c: C Delay Base Note,

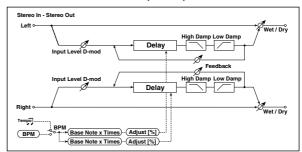
c: Times, d: R Delay Base Note, d: Times

The delay time is the length of the note obtained by multiplying the "Base Note" parameter by the Times value, in relation to the tempo specified by the "BPM" parameter (or the MIDI Clock tempo if "BPM" is set to **MIDI**).

050: BPM Delay

This stereo delay enables you to set the delay time to match the song tempo.

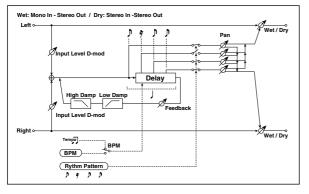
Note: With extreme values, the sync may be lost.



а		MIDI, 40240 (:049, 🍳 Sync	
	R >, OVER!! Display the error message if the right channel delay time exceeds the upper limit		
	Selects the type of notes to specify the left channel del	, J₃, J, J₃, J, S ay time ::049, ⊅≌‴	
b	Times Sets the number of notes to specify the left channel de	x1x16 lay time IS Fx:049	
	Adjust [%] Fine-adjust the left channel delay time	-2.50+2.50%	
	R Delay Base Note Selects the type of notes to specify the right channel delay time Fx:049,		
с	Times x1x16 Sets the number of notes to specify the right channel delay time F3® Fx:049		
	Adjust [%] Fine-adjust the right channel delay time	-2.50+2.50%	
	L Feedback Sets the feedback amount for the left channel	-100+100 D ≝≝≝	
d	Src OffTempo Selects the modulation source of feedback amount		
	Amt L -100+100 Sets the modulation amount of the left channel feedback		
е	R Feedback Sets the feedback amount for the right channel	-100+100 D ≝≝≝	
0	Amt R -100+100 Sets the modulation amount of the right channel feedback		
f	High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043	
g	Low Damp [%] Sets the damping amount in the low range	0100% IS Fx:043	
h	Input Level Dmod [%] Sets the modulation amount of the input level	−100+100 x:037, D	
	Src Selects the modulation source for the input level	OffTempo IS Fx:037	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323		
i	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323		
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100	

051: Sequence Delay

This four-tap delay enables you to select a tempo and rhythm pattern to set up each tap.



а	BPM Selects MIDI Clock and assigns tempo	MIDI, 44240 ☞, ⊅\$***
b	Rhythm Pattern Selects a rhythm pattern))
	Tap1 Pan Sets the panning of Tap1	L, 199, R
	Tap2 Pan Sets the panning of Tap2	L, 199, R
c	Tap3 Pan Sets the panning of Tap3	L, 199, R
	Tap4 Pan Sets the panning of Tap4	L, 199, R
	Feedback Sets the feedback amount	−100+100 D ^{-mod}
d	Src Selects the modulation source of feedback amount	OffTempo
	Amt Sets the modulation amount of the feedback	-100+100
e	High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043
e	Low Damp [%] Sets the damping amount in the low range	0100% ☞ Fx:043
f	Input Level Dmod [%] Sets the modulation amount of the input level	−100+100 x:037, D ^{-<u>mod</u>-}
T	Src Selects the modulation source for the input level	OffTempo ☞ Fx:037
g	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

a: BPM, b: Rhythm Pattern

With the tempo specified by the "BPM" parameter (or the MIDI Clock tempo if "BPM" is set to MIDI), the length of one beat equals the feedback delay time, and the interval between taps becomes equal. Selecting a rhythm pattern will automatically turn the tap outputs on and off. When "BPM" is set to MIDI, the lower limit of the "BPM" is **44**.

Reverb

Reverb effects

These effects simulate the ambience of reverberation in concert halls.

052: Reverb Hall

This hall-type reverb simulates the reverberation of mid-size concert halls or ensemble halls.

053: Reverb Smooth Hall

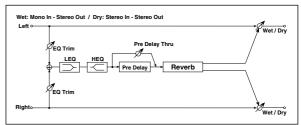
This hall-type reverb simulates the reverberation of larger halls and stadiums, and creates a smooth release.

054: Reverb Wet Plate

This plate reverb simulates warm (dense) reverberation.

055: Reverb Dry Plate

This plate reverb simulates dry (light) reverberation.



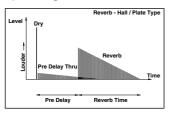
	-	
a	Reverb Time [sec] Sets the reverberation time	0.110.0sec
	High Damp [%] Sets the damping amount in the high range	0100%
b	Pre Delay [msec] Sets the delay time from the dry sound	0200msec
	Pre Delay Thru [%] Sets the mix ratio of non-delay sound	0100% ®
с	EQ Trim Table , "Sets the EQ input level," on page 323	0100
d	Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-15+15dB
	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	-15+15dB
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet ounds," on page 323
e	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

354 Effects Reverb

b: Pre Delay [msec], b: Pre Delay Thru [%]

The "Pre Delay" sets the delay time to the reverb input, allowing you to control spaciousness.

Using the "Pre Delay Thru" parameter, you can mix the dry sound without delay, emphasizing the attack of the sound.

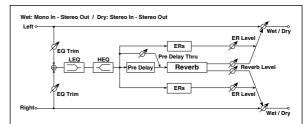


056: Reverb Room

This room-type reverb emphasizes the early reflections that make the sound tighter. Changing the balance between the early reflections and reverb sound allows you to simulate nuances, such as the type of walls of a room.

057: Reverb Bright Room

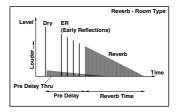
This room-type reverb emphasizes the early reflections that make the sound brighter. See 056: Reverb Room.



а	Reverb Time [sec] Sets the reverberation time	0.13.0sec
	High Damp [%] Sets the damping amount in the high range	0100%
b	Pre Delay [msec] Sets the delay time from the dry sound	0200msec III Fx:052
	Pre Delay Thru [%] Sets the mix ratio of non-delay sound	0100% ☞ Fx:052
с	ER Level Sets the level of early reflections	0100 ®
d	Reverb Level Sets the reverberation level	0100 ⊮⊛
е	EQ Trim Table , "Sets the EQ input level," on page 323	0100
f	Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	–15+15dB
	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	–15+15dB
g	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

c: ER Level, d: Reverb Level

These parameters set the early reflection level and reverb level. Changing these parameter values allows you to simulate the type of walls in the room. That is, a larger "ER Level" simulates a hard wall, and a larger "Reverb Level" simulates a soft wall.



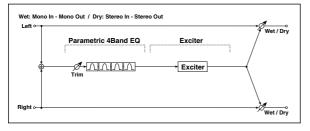
Mono – Mono Chain

Effects that combine two mono effects connected in series

058: P4EQ - Exciter

(Parametric 4-Band EQ – Exciter)

This effect combines a mono-type four-band parametric equalizer and an exciter.

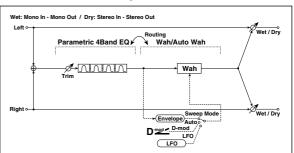


a	[E] Trim Sets the parametric EQ input level	0100
	[E] Band1 Cutoff [Hz] Sets the center frequency of Band 1	201.00kHz
b	Q Sets the bandwidth of Band 1	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 1	-18+18dB
	[E] Band2 Cutoff [Hz] Sets the center frequency of Band 2	505.00kHz
с	Q Sets the bandwidth of Band 2	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 2	-18+18dB
	[E] Band3 Cutoff [Hz] Sets the center frequency for Band 3	30010.00kHz
d	Q Sets the bandwidth of Band 3	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 3	-18+18dB
	[E] Band4 Cutoff [Hz] Sets the center frequency for Band 4	50020.00kHz
е	Q Sets the bandwidth of Band 4	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 4	-18+18dB
f	[X] Exciter Blend Sets the intensity (depth) of the Exciter effect	–100+100 ☞ Fx:011
g	[X] Emphatic Point Sets the frequency range to be emphasized	070 ☞ Fx:011
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
h	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

059: Par4Eq-Wah

(Parametric 4-Band EQ – Wah/Auto Wah)

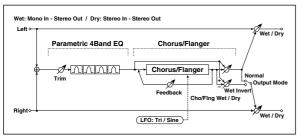
This effect combines a mono-type four-band parametric equalizer and a wah. You can change the order of the connection.



	[E] Trim	0100
а	Sets the parametric EQ input level	
b	[E] Band1 Cutoff [Hz] Sets the center frequency of Band 1	201.00kHz
	Q Sets the bandwidth of Band 1	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 1	-18+18dB
	[E] Band2 Cutoff [Hz] Sets the center frequency of Band 2	505.00kHz
с	Q Sets the bandwidth of Band 2	0.510.0 ሜ Fx:006
	Gain [dB] Sets the gain of Band 2	-18+18dB
	[E] Band3 Cutoff [Hz] Sets the center frequency for Band 3	30010.00kHz
d	Q Sets the bandwidth of Band 3	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 3	-18+18dB
	[E] Band4 Cutoff [Hz] Sets the center frequency for Band 4	50020.00kHz
е	Q Sets the bandwidth of Band 4	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 4	-18+18dB
	[W] Frequency Bottom Sets the lower limit of the wah center frequency	0100 ☞ Fx:009
f	Frequency Top Sets the upper limit of the wah center frequency	0100 ≌ Fx:009
g	[W] Sweep Mode Auto, D-mod, L Selects the control from auto-wah, modulation source, and LFO	
9	Src Selects the modulation source for the wah when Sweep	OffTempo
	[W] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
h	Resonance Sets the resonance amount	0100
	LPF Switches the wah low pass filter on and off	Off, On
i	Routing $PEQ \rightarrow WAH, WAH \rightarrow PEQ$ Changes the order of the parametric equalizer and wah connection	
j	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so Dred	9999:1, Wet unds," on page 323
	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance" on page 323	-100+100

060: P4EQ - Cho/Flng

This effect combines a mono-type four-band parametric equalizer and a chorus/flanger.



а	[E] Trim Sets the parametric EQ input level	0100
	[E] Band1 Cutoff [Hz] Sets the center frequency of Band 1	201.00kHz
b	Q Sets the bandwidth of Band 1	0.510.0 IIII Fx:006
	Gain [dB] Sets the gain of Band 1	-18+18dB
	[E] Band2 Cutoff [Hz] Sets the center frequency of Band 2	505.00kHz
с	Q Sets the bandwidth of Band 2	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 2	–18+18dB
	[E] Band3 Cutoff [Hz] Sets the center frequency for Band 3	30010.00kHz
d	Q Sets the bandwidth of Band 3	0.510.0 I® Fx:006
	Gain [dB] Sets the gain of Band 3	–18+18dB
	[E] Band4 Cutoff [Hz] Sets the center frequency for Band 4	50020.00kHz
е	Q Sets the bandwidth of Band 4	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 4	-18+18dB
f	[F] Delay Time [msec] Sets the delay time	0.050.0msec
a	[F] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
g	LFO Waveform Selects LFO Waveform	Triangle, Sine
h	[F] Depth Sets the depth of LFO modulation	0100
	Feedback Sets the feedback amount	–100+100 ⊮≌ Fx:020
i	[F] Cho/Fing Wet/Dry -Wet2:98, Dry, 2:98Wet Sets the effect balance of the chorus/flanger ☞ Fx:010, 020	
	Output Mode Normal, Wet Invert Selects the output mode for the chorus/flanger	
j	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

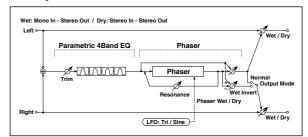
i: Output Mode

When **Wet Invert** is selected, the right channel phase of the chorus/flanger effect sound is inverted. This creates pseudo-stereo effects and adds spread.

However, if a mono-input type effect is connected after this effect, the left and right sounds may cancel each other, eliminating the chorus/flanger effects.

061: P4EQ - Phaser

This effect combines a mono-type four-band parametric equalizer and a phaser.

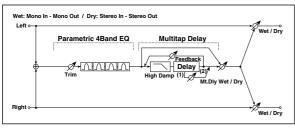


а	[E] Trim Sets the parametric EQ input level	0100
b	[E] Band1 Cutoff [Hz] Sets the center frequency of Band 1	201.00kHz
	Q Sets the bandwidth of Band 1	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 1	-18+18dB
	[E] Band2 Cutoff [Hz] Sets the center frequency of Band 2	505.00kHz
с	Q Sets the bandwidth of Band 2	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 2	–18+18dB
	[E] Band3 Cutoff [Hz] Sets the center frequency for Band 3	30010.00kHz
d	Q Sets the bandwidth of Band 3	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 3	–18+18dB
	[E] Band4 Cutoff [Hz] Sets the center frequency for Band 4	50020.00kHz
е	Q Sets the bandwidth of Band 4	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 4	–18+18dB
f	[P] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
1	LFO Waveform Selects LFO Waveform	Triangle, Sine
g	[P] Manual Sets the frequency to which the effect is applied	0100
h	[P] Depth Sets the depth of LFO modulation	0100
п	Resonance Sets the resonance amount	−100+100 IS Fx:023
	[P] Phaser Wet/Dry -Wet2:98, Dry, 2:98Wet Sets the phaser effect balance #\$\$\$`Fx:010, 023	
i	Output Mode Normal, Wet Invert Selects the phaser output mode Image: Fx:060	
j	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

062: P4EQ - Mt. Delay

(Parametric 4-Band EQ – Multitap Delay)

This effect combines a mono-type four-band parametric equalizer and a multitap delay.

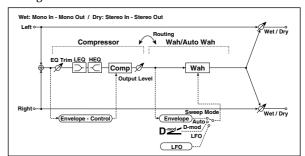


а	[E] Trim Sets the parametric EQ input level	0100
b	[E] Band1 Cutoff [Hz] Sets the center frequency of Band 1	201.00kHz
	Q Sets the bandwidth of Band 1	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 1	-18+18dB
	[E] Band2 Cutoff [Hz] Sets the center frequency of Band 2	505.00kHz
с	Q Sets the bandwidth of Band 2	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 2	-18+18dB
	[E] Band3 Cutoff [Hz] Sets the center frequency for Band 3	30010.00kHz
d	Q Sets the bandwidth of Band 3	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 3	-18+18dB
	[E] Band4 Cutoff [Hz] Sets the center frequency for Band 4	50020.00kHz
е	Q Sets the bandwidth of Band 4	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 4	-18+18dB
f	[D] Tap1 Time [msec] Sets the Tap1 delay time	0680msec
1	Tap1 Level Sets the Tap1 output level	0100 ☞ Fx:045
~	[D] Tap2 Time [msec] Sets the Tap2 delay time	0680msec
g	Feedback Sets the Tap2 feedback amount	-100+100
h	[D] Mt.Delay Wet/DryDry, 2:9898:2, Wet Sets the multitap delay effect balance	
	High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043
i	Wet/DryDry, 1:9999:1, Wet Table , "Sets the balance between the effect and page 323 D	dry sounds," on
	SrcOffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect balance," on page 323	-100+100

063: Comp - Wah

(Compressor – Wah/Auto Wah)

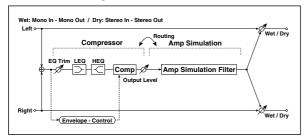
This effect combines a mono-type compressor and a wah. You can change the order of the connection.



а	[C] Sensitivity Sets the sensitivity	1100 ☞ Fx:002	
	[C] Attack Table , "Sets the attack level," on page 323	1100 ☞ Fx:002	
b	Output Level Sets the compressor output level	0100 ☞ Fx:002	
с	[C] EQ Trim Table , "Sets the EQ input level," on page 323	0100	
d	[C] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	–15+15dB	
u	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	–15+15dB	
e	[W] Frequency Bottom Sets the lower limit of the wah center frequency	0100 ☞ Fx:009	
ט	Frequency Top Sets the upper limit of the wah center frequency	0100 ☞ Fx:009	
f	Selects the control from auto-wah, modulation source,	n, D-mod, LFO and LFO x:009, D <u>™⊴</u> ✓	
	Src OffTempo Selects the modulation source for the wah when Sweep Mode=D-mod		
g	[W] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz	
h	[W] Resonance Sets the resonance amount	0100	
n	Low Pass Filter Switches the wah low pass filter on and off	Off, On	
i	Routing $CMP \rightarrow WAH$, $WAH \rightarrow CMP$ Switches the order of the compressor and wah connection		
j	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so D	9999:1, Wet ounds," on page 323	
	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323		
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100	

064: Comp - Amp Sim (Compressor - Amp Simulation)

This effect combines a mono-type compressor and an amp simulation. You can change the order of the effect connection.

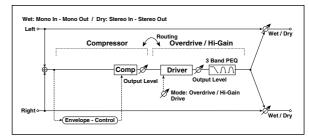


a	[C] Sensitivity Sets the sensitivity	1100 IS® Fx:002
b	[C] Attack Table , "Sets the attack level," on page 323	1100 ☞ Fx:002
	Output Level Sets the compressor output level	0100 ☞ Fx:002
с	[C] EQ Trim Table , "Sets the EQ input level," on page 323	0100
d	[C] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	–15+15dB
d	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	–15+15dB
е	[A] Amplifier Type Selects the type of guitar amplifier	Solid State, British (EL84), American (6L6)
f	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	
Wet/Dry Dry, 1:9999:1, W Table, "Sets the balance between the effect and dry sounds," on pa		
g	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

065: Comp - OD/HiGain

(Compressor - Overdrive/Hi.Gain)

This effect combines a mono-type compressor and an overdrive/ high-gain distortion. You can change the order of the effect connection.

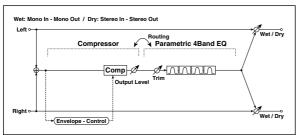


a	[C] Sensitivity Sets the sensitivity	1100 IS Fx:002
b	[C] Attack Table , "Sets the attack level," on page 323	1100 ☞ Fx:002
	Output Level Sets the compressor output level	0100 ☞ Fx:002
с	[O] Drive Mode Overdrive, Hi-Gain Switches between overdrive and high-gain distortion	
C	Drive Sets the degree of distortion	1100 ☞ Fx:006
	[O] Output Level Sets the overdrive output level	050 x:006, D ™
d	Src Selects the modulation source for the overdrive output	OffTempo level
	Amt Sets the modulation amount of the overdrive output leve	–50+50 el
е	[O] Low Cutoff [Hz] Sets the center frequency for Low EQ (shelving type)	201.00kHz
e	Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-18+18dB
	[O] Mid1 Cutoff [Hz] 3 Sets the center frequency for Mid/High EQ 1 (peaking t	0010.00kHz ype)
f	Q Sets the band width of Mid/High EQ 1	0.510.0 I≌ Fx:006
	Gain [dB] Sets the gain of Mid/High EQ 1	-18+18dB
	[O] Mid2 Cutoff [Hz] 50020.00kHz Sets the center frequency for Mid/High EQ 2 (peaking type)	
g	Q Sets the band width of Mid/High EQ 2	0.510.0 I≌ Fx:006
	Gain [dB] Sets the gain of Mid/High EQ 2	-18+18dB
h	$\begin{array}{c} \mbox{Routing} & \mbox{CMP} \rightarrow \mbox{OI}\\ Switches the order of the compressor and overdrive control overdri$	D, OD \rightarrow CMP nnection
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet unds," on page 323
i	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

066: Comp - P4EQ

(Compressor - Parametric 4-Band EQ)

This effect combines a mono-type compressor and a four-band parametric equalizer. You can change the order of the effect connection.

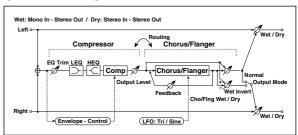


a	[C] Sensitivity Sets the sensitivity	1100 ⊮ଙ Fx:002
b	[C] Attack Table , "Sets the attack level," on page 323	1100 ሜ Fx:002
	Output Level Sets the compressor output level	0100 ☞ Fx:002
с	[E] Trim Sets the parametric EQ input level	0100
	[E] Band1 Cutoff [Hz] Sets the center frequency of Band 1	201.00kHz
d	Q Sets the bandwidth of Band 1	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 1	-18+18dB
	[E] Band2 Cutoff [Hz] Sets the center frequency of Band 2	505.00kHz
e	Q Sets the bandwidth of Band 2	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 2	-18+18dB
	[E] Band3 Cutoff [Hz] Sets the center frequency for Band 3	30010.00kHz
f	Q Sets the bandwidth of Band 3	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 3	-18+18dB
	[E] Band4 Cutoff [Hz] Sets the center frequency for Band 4	50020.00kHz
g	Q Sets the bandwidth of Band 4	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 4	–18+18dB
h	$\begin{array}{ll} \mbox{Routing} & \mbox{CMP} \rightarrow \mbox{PEQ}, \\ \mbox{Switches the order of the compressor and parametric E} \end{array}$	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
i	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

067: Comp - ChoFing

(Compressor – Chorus/Flanger)

This effect combines a mono-type compressor and a chorus/ flanger. You can change the order of the effect connection.



а	[C] Sensitivity Sets the sensitivity	1100 ☞ Fx:002
	[C] Attack Table , "Sets the attack level," on page 323	1100 ™ Fx:002
b	Output Level Sets the compressor output level	0100 IS Fx:002
с	[C] EQ Trim Table , "Sets the EQ input level," on page 323	0100
	[C] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	–15+15dB
d	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	-15+15dB
е	[F] Delay Time [msec] Sets the delay time	0.050.0msec
	[F] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
f	LFO Waveform Selects LFO Waveform	Triangle, Sine
	[F] Depth Sets the depth of LFO modulation	0100
g	Feedback Sets the feedback amount	–100+100 IS Fx:020
-	[F] Cho/Fing Wet/DryWet2:98, Dry, 2:98Wet Sets the effect balance of the chorus/flanger 🖙 Fx:010, 020	
h	Output Mode Norm Selects the output mode for the chorus/flanger	nal, Wet Invert
i	$\begin{array}{c} \mbox{Routing} & \mbox{CMP} \rightarrow \mbox{FLNG}, \mbox{FLNG} \rightarrow \mbox{CMP} \\ \mbox{Switches the order of the compressor and chorus/flanger connection} \\ \mbox{III} \\ \mbox{IIII} \end{array}$	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page Drmd Src Table , "Selects the modulation source of the effect balance," on page	
j		
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

h: Output Mode, i: Routing

When **Wet Invert** is selected, the right channel phase of the chorus/flanger effect sound is inverted. This creates pseudo-stereo effects and adds spread.

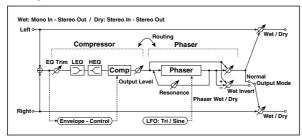
However, if a mono-input type effect is connected after this effect, the left and right sounds may cancel each other, eliminating the chorus/flanger effects.

When "Routing" is set to $FLNG \rightarrow CMP$, "Output Mode" will be set to Normal.

068: Comp - Phaser

(Compressor - Phaser)

This effect combines a mono-type compressor and a phaser. You can change the order of the effect connection.

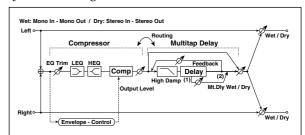


a	[C] Sensitivity Sets the sensitivity	1100 ☞ Fx:002
b	[C] Attack Table , "Sets the attack level," on page 323	1100 ☞ Fx:002
D	Output Level Sets the compressor output level	0100 ☞ Fx:002
с	[C] EQ Trim Table , "Sets the EQ input level," on page 323	0100
d	[C] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	–15+15dB
u	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	–15+15dB
	[P] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
e	LFO Waveform Selects LFO Waveform	Triangle, Sine
f	[P] Manual Sets the frequency to which the effect is applied	0100
	[P] Depth Sets the depth of LFO modulation	0100
g	Resonance Sets the resonance amount	−100+100 ☞ Fx:023
h	[P] Phaser Wet/Dry -Wet2:98, Dry, 2:98Wet Sets the phaser effect balance Image: Application of the phase of t	
	Output Mode Normal, Wet Invert Selects the phaser output mode Fx:067	
i	Routing CMP→PHS, PHS→CMP Switches the order of the compressor and phaser connection [®] Fx:067	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
j	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

069: Comp - Mt. Delay

(Compressor – Multitap Delay)

This effect combines a mono-type compressor and a multitap delay. You can change the order of the effect connection.

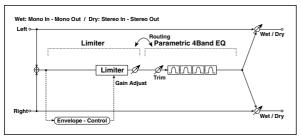


a	[C] Sensitivity Sets the sensitivity	1100 ☞ Fx:002
	[C] Attack Table , "Sets the attack level," on page 323	1100 ☞ Fx:002
b	Output Level Sets the compressor output level	0100 ☞ Fx:002
с	[C] EQ Trim Table , "Sets the EQ input level," on page 323	0100
d	[C] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	–15+15dB
u	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	–15+15dB
	[D] Tap1 Time [msec] Sets the Tap1 delay time	0680msec
е	Tap1 Level Sets the Tap1 output level	0100 I® Fx:045
f	[D] Tap2 Time [msec] Sets the Tap2 delay time	0680msec
1	Feedback Sets the Tap2 feedback amount	-100+100
g	[D] High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043
h	[D] Mt.Delay Wet/Dry Dry, 1: Sets the multitap delay effect balance	9999:1, Wet
i	Routing CMP→DL Switches the order of the compressor and multitap dela	Y, DLY→CMP ay connection
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
j	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

070: Limiter - P4EQ

(Limiter - Parametric 4-Band EQ)

This effect combines a mono-type limiter and a four-band parametric equalizer. You can change the order of the effect connection.

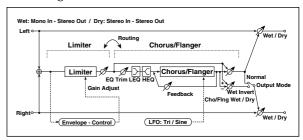


	[L] Ratio 1.0:150.0:1, Inf:1 Sets the signal compression ratio Image: Fix:003	
а	Threshold [dB] Sets the level above which the compressor is applied	–400dB ☞ Fx:003
	[L] Attack Sets the attack time	1100 ☞ Fx:003
b	Release Sets the release time	1100 ሜ Fx:003
с	[L] Gain Adjust [dB] Sets the limiter output gain	–Inf, –38+24dB ሜ Fx:003
d	[E] Trim Sets the parametric EQ input level	0100
	[E] Band1 Cutoff [Hz] Sets the center frequency of Band 1	201.00kHz
е	Q Sets the bandwidth of Band 1	0.510.0 ሜ Fx:006
	Gain [dB] Sets the gain of Band 1	-18+18dB
	[E] Band2 Cutoff [Hz] Sets the center frequency of Band 2	505.00kHz
f	Q Sets the bandwidth of Band 2	0.510.0 ሜ Fx:006
	Gain [dB] Sets the gain of Band 2	-18+18dB
	[E] Band3 Cutoff [Hz] Sets the center frequency for Band 3	30010.00kHz
g	Q Sets the bandwidth of Band 3	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 3	-18+18dB
	[E] Band4 Cutoff [Hz] Sets the center frequency for Band 4	50020.00kHz
h	Q Sets the bandwidth of Band 4	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Band 4	-18+18dB
i	Routing LMT→PEC Switches the order of the limiter and parametric EQ con	Q, PEQ→LMT nnection
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 3	
j	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

071: Limiter - Cho/Flang

(Limiter – Chorus/Flanger)

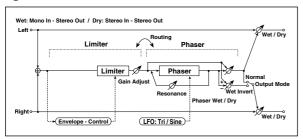
This effect combines a mono-type limiter and a chorus/flanger. You can change the order of the effect connection.



a	[L] Ratio 1.0:150.0:1, Inf:1 Sets the signal compression ratio Image: Compare the signal compression ratio	
ľ	Threshold [dB] Sets the level above which the compressor is applied	–400dB ☞ Fx:003
	[L] Attack Sets the attack time	1100 ®ଙ Fx:003
b	Release Sets the release time	1100 ® Fx:003
с	[L] Gain Adjust [dB] Sets the limiter output gain	–Inf, –38+24dB ☞ Fx:003
	[F] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
d	LFO Waveform Selects LFO Waveform	Triangle, Sine
	[F] Delay Time [msec] Sets the delay time	0.050.0msec
e	Depth Sets the depth of LFO modulation	0100
	Feedback Sets the feedback amount	–100+100 IS Fx:020
f	[F] EQ Trim Table , "Sets the EQ input level," on page 323	0100
	[F] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-15+15dB
g	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	-15+15dB
	[F] Cho/Fing Wet/DryWet2:98, Dry, 2:98Wet Sets the effect balance of the chorus/flanger 🖙 Fx:010, 020	
h	Output Mode Norn Selects the output mode for the chorus/flanger	nal, Wet Invert ® Fx:067
i	Routing LMT→FLNG, FLNG→LMT Switches the order of the limiter and chorus/flanger connection ☞ Fx:067	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
j	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

072: Limiter - Phaser

This effect combines a mono-type limiter and a phaser. You can change the order of the effect connection.

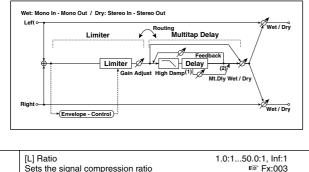


	[L] Ratio 1.0:150.0:1, Inf:1 Sets the signal compression ratio Fx:003	
a	Threshold [dB] Sets the level above which the compressor is applied	–400dB ☞ Fx:003
b	[L] Attack Sets the attack time	1100 ☞ Fx:003
D	Release Sets the release time	1100 ☞ Fx:003
с	[L] Gain Adjust [dB] Sets the limiter output gain	–Inf, –38+24dB ☞ Fx:003
d	[P] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
a	LFO Waveform Selects LFO Waveform	Triangle, Sine
е	[P] Manual Sets the frequency to which the effect is applied	0100
f	[P] Depth Sets the depth of LFO modulation	0100
	Resonance Sets the resonance amount	–100+100 ☞ Fx:023
	[P] Phaser Wet/Dry -Wet2:98, Dry, 2:98Wet Sets the phaser effect balance Image: Comparison of the phase of the pha	
g	g Output Mode Normal, Wet Invert Selects the phaser output mode rear Fx:067	
h	Routing LMT→PHS, PHS→LMT Switches the order of the limiter and phaser connection ^{ISS} Fx:067	
	Wet/Dry Dry, 1:9999:1, Wet Table, "Sets the balance between the effect and dry sounds," on page 32:	
i	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

073: Limiter - Mt. Delay

(Limiter – Multitap Delay)

This effect combines a mono-type limiter and a multitap delay. You can change the order of the effect connection.



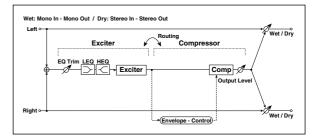
•	Sets the signal compression ratio	FX:003	
a	Threshold [dB] Sets the level above which the compressor is applied	–400dB I≌ Fx:003	

b	[L] Attack Sets the attack time	1100 ☞ Fx:003
	Release Sets the release time	1100 IIII Fx:003
с	[L] Gain Adjust [dB] Sets the limiter output gain	–Inf, –38+24dB IS Fx:003
d	[D] Tap1 Time [msec] Sets the Tap1 delay time	0680msec
u	Tap1 Level Sets the Tap1 output level	0100 ☞ Fx:045
	[D] Tap2 Time [msec] Sets the Tap2 delay time	0680msec
e	Feedback (Tap2) Sets the Tap2 feedback amount	-100+100
f	[D] Mt.Delay Wet/Dry Dry, 1:9999:1, Wet Sets the multitap delay effect balance	
1	High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043
g	Routing LMT→DLY, DLY→LMT Switches the order of the limiter and multitap delay connection	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
h	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

074: Exciter - Comp

(Exciter - Compressor)

This effect combines a mono-type exciter and a compressor. You can change the order of the effect connection.

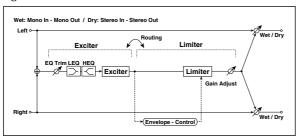


а	[X] Exciter Blend Sets the intensity (depth) of the Exciter effect	–100+100 ☞ Fx:011
b	[X] Emphatic Point Sets the frequency range to be emphasized	070 Iሜ Fx:011
с	[X] EQ Trim Table , "Sets the EQ input level," on page 323	0100
d	[X] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-15+15dB
a	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	–15+15dB
е	[C] Sensitivity Sets the sensitivity	1100 ☞ Fx:002
f	[C] Attack Table , "Sets the attack level," on page 323	1100 IS® Fx:002
I	Output Level Sets the compressor output level	0100 ☞ Fx:002
g	Routing XCT→CMP, CMP→XCT Switches the order of the exciter and compressor connection	
Wet/Dry D Table , "Sets the balance between the effect and o D ^{mod}		9999:1, Wet unds," on page 323
h	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

075: Exciter - Limiter

(Exciter - Limiter)

This effect combines a mono-type exciter and a limiter. You can change the order of the effect connection.

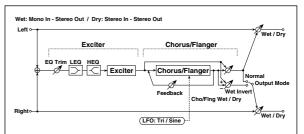


	[X] Exciter Blend	-100+100
а	Sets the intensity (depth) of the Exciter effect	=100∓100 I® Fx:011
b	[X] Emphatic Point Sets the frequency range to be emphasized	070 ሜ Fx:011
с	[X] EQ Trim Table , "Sets the EQ input level," on page 323	0100
d	[X] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	–15+15dB
u	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	-15+15dB
е	[L] Ratio 1.0:1 Sets the signal compression ratio	50.0:1, Inf:1 ☞ Fx:003
f	[L] Threshold [dB] Sets the level above which the compressor is applied	–400dB ☞ Fx:003
	[L] Attack Sets the attack time	1100 ☞ Fx:003
g	Release Sets the release time	1100 ☞ Fx:003
h	[L] Gain Adjust [dB] Sets the limiter output gain	–Inf, –38+24dB ሜ Fx:003
i	Routin XCT→LMT, LMT→XCT Switches the order of the exciter and limiter connection	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
j Src Table , "Selects the modulation source of the effect bala		OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

076: Exciter - Cho/Flng

(Exciter – Chorus/Flanger)

This effect combines a mono-type limiter and a chorus/flanger.

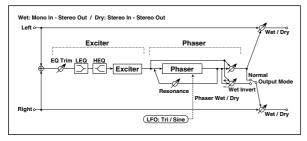


а	[X] Exciter Blend Sets the intensity (depth) of the Exciter effect	–100+100 ☞ Fx:011
b	[X] Emphatic Point Sets the frequency range to be emphasized	070 ☞ Fx:011
с	[X] EQ Trim Table , "Sets the EQ input level," on page 323	0100
d	[X] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-15+15dB
a	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	–15+15dB
е	[F] Delay Time [msec] Sets the delay time	0.050.0msec
f	[F] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
'	LFO Waveform Selects LFO Waveform	Triangle, Sine
_	[F] Depth Sets the depth of LFO modulation	0100
g	Feedback Sets the feedback amount	–100+100 ☞ Fx:020
h	[F] Cho/Flng Wet/Dry -Wet2:98, Dry, 2:98Wet Sets the effect balance of the chorus/flanger Fx:010, 020	
	Output Mode Normal, Wet Invert Selects the output mode for the chorus/flanger Fx:060	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
i	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

077: Exciter - Phaser

(Exciter – Phaser)

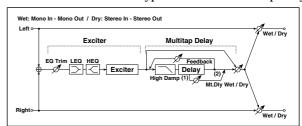
This effect combines a mono-type limiter and a phaser.



а	[X] Exciter Blend Sets the intensity (depth) of the Exciter effect	−100+100 IS Fx:011
b	[X] Emphatic Point Sets the frequency range to be emphasized	070 I® Fx:011
с	[X] EQ Trim Table , "Sets the EQ input level," on page 323	0100
d	[X] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-15+15dB
d	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	–15+15dB
	[P] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
е	LFO Waveform Selects LFO Waveform	Triangle, Sine
f	[P] Manual Sets the frequency to which the effect is applied	0100
_	[P] Depth Sets the depth of LFO modulation	0100
g	Resonance Sets the resonance amount	–100+100 ☞ Fx:023
h	[P] Phaser Wet/Dry -Wet2:98, Dry, 2:98Wet Sets the phaser effect balance III Strategy -Wet2:98 Pry, 2:98Wet	
п	Output Mode Normal, Wet Invert Selects the phaser output mode ESF Fx:060	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
i Src Table , "Selects the modulation source of the effect balar		OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

078: Exciter - Mt. Delay (Exciter - Multitap Delay)

This effect combines a mono-type exciter and a multitap delay.

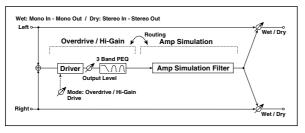


а	[X] Exciter Blend Sets the intensity (depth) of the Exciter effect	−100+100 I® Fx:011
b	[X] Emphatic Point Sets the frequency range to be emphasized	070 I⊠ Fx:011
с	[X] EQ Trim Table , "Sets the EQ input level," on page 323	0100
d	[X] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	–15+15dB
u	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	–15+15dB
	[D] Tap1 Time [msec] Sets the Tap1 delay time	0680msec
e	Tap1 Level Sets the Tap1 output level	0100 IS Fx:045
f	[D] Tap2 Time [msec] Sets the Tap2 delay time	0680msec
	Feedback (Tap2) Sets the Tap2 feedback amount	-100+100
g	[D] High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043
h	[D] Mt.Delay Wet/Dry Dry, 1:9999:1, Wet Sets the multitap delay effect balance	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
i	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

079: OD/HG - Amp Sim

(Overdrive/Hi.Gain – Amp Simulation)

This effect combines a mono-type overdrive/high-gain distortion and an amp simulation. You can change the order of the effect connection.

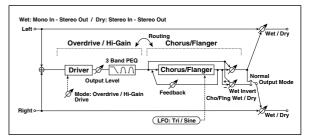


	[O] Drive Mode Over Switches between overdrive and high-gain distortion	drive, Hi-Gain
а	Drive Sets the degree of distortion	1100 ☞ Fx:006
	[O] Output Level Sets the overdrive output level	050 x:006, D -====
b	Src Selects the modulation source for the overdrive output	OffTempo level
	Amt Sets the modulation amount of the overdrive output lev	–50+50 el
с	[O] Low Cutoff [Hz] Sets the center frequency for Low EQ (shelving type)	201.00kHz
	Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-18+18dB
	[O] Mid1 Cutoff [Hz] 3 Sets the center frequency for Mid/High EQ 1 (peaking the center frequency for Mid/High EQ 1 (peaking the center for th	0010.00kHz type)
d	Q Sets the band width of Mid/High EQ 1	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Mid/High EQ 1	-18+18dB
	[O] Mid2 Cutoff [Hz] 50020.00kHz Sets the center frequency for Mid/High EQ 2 (peaking type)	
е	Q Sets the band width of Mid/High EQ 2	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Mid/High EQ 2	-18+18dB
f	[A] Amplifier Type Selects the type of guitar amplifier	Solid State, British (EL84), American (6L6)
g	Routing OD—AMP, AMP–OD Switches the order of the overdrive and amp simulation connection	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
h	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

080: OD/HG - Cho/Flng

(Overdrive/Hi.Gain - Chorus/Flanger)

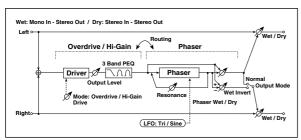
This effect combines a mono-type overdrive/high-gain distortion and a chorus/flanger. You can change the order of the effect connection.



	[O] Drive Mode Over Switches between overdrive and high-gain distortion	drive, Hi-Gain
а	Drive Sets the degree of distortion	1100 ™ Fx:006
	[O] Output Level Sets the overdrive output level	050 x:006, D -mod -
b	Src Selects the modulation source for the overdrive output	OffTempo level
	Amt Sets the modulation amount of the overdrive output lev	–50+50 el
с	[O] Low Cutoff [Hz] Sets the center frequency for Low EQ (shelving type)	201.00kHz
C	Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-18+18dB
	[O] Mid1 Cutoff [Hz] 3 Sets the center frequency for Mid/High EQ 1 (peaking t	0010.00kHz (ype)
d	Q Sets the band width of Mid/High EQ 1	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Mid/High EQ 1	-18+18dB
	[O] Mid2 Cutoff [Hz] 5 Sets the center frequency for Mid/High EQ 2 (peaking t	0020.00kHz type)
е	Q Sets the band width of Mid/High EQ 2	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Mid/High EQ 2	-18+18dB
f	[F] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
1	LFO Waveform Selects LFO Waveform	Triangle, Sine
	[F] Delay Time [msec] Sets the delay time	0.050.0msec
g	Depth Sets the depth of LFO modulation	0100
	Feedback Sets the feedback amount	–100+100 ☞ Fx:020
b	[F] Cho/Fing Wet/Dry -Wet2:98, Dry, 2:98Wet Sets the effect balance of the chorus/flanger Fx:010, 020	
h	Output Mode Normal, Wet Invert Selects the output mode for the chorus/flanger F3:067	
i	$\begin{array}{cc} \text{OD} \rightarrow \text{FLNG}, \text{FLNG} \rightarrow \text{OD} \\ \text{Switches the order of the overdrive and chorus/flanger connection} \\ \ensuremath{\mathbb{I}}^{\otimes} \text{Fx:067} \end{array}$	
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet ounds," on page 323
j	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

081: OD/HG - Phaser (Overdrive/Hi.Gain - Phaser)

This effect combines a mono-type overdrive/high-gain distortion and a phaser. You can change the order of the effect connection.

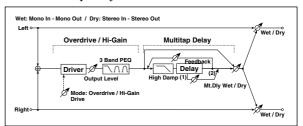


Selects the modulation source for the overdrive output level Amt Sets the modulation amount of the overdrive output level	1100 ☞ Fx:006 050	
Drive Sets the degree of distortion [O] Output Level Image: Fx:006, Sets the overdrive output level Image: Fx:006, Src Off. Selects the modulation source for the overdrive output level Amt Sets the modulation amount of the overdrive output level Image: Fx:006,	Image: Free Free Free Free Free Free Free Fr	
b Sets the overdrive output level Image: Fx:006, b Src Off. Selects the modulation source for the overdrive output level Amt Amt	D ^{-med} Tempo 50+50	
Selects the modulation source for the overdrive output level Amt Sets the modulation amount of the overdrive output level	50+50	
Sets the modulation amount of the overdrive output level		
[0] 0	1.00kHz	
Sets the center frequency for Low EQ (shelving type)		
c Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-18+18dB	
[O] Mid1 Cutoff [Hz] 3001 Sets the center frequency for Mid/High EQ 1 (peaking type)	0.00kHz	
d Q Sets the band width of Mid/High EQ 1	0.510.0 ☞ Fx:006	
Gain [dB] Sets the gain of Mid/High EQ 1	-18+18dB	
[O] Mid2 Cutoff [Hz] 5002 Sets the center frequency for Mid/High EQ 2 (peaking type)	0.00kHz	
e Q Sets the band width of Mid/High EQ 2	0.510.0 I⊠ Fx:006	
Gain [dB] Sets the gain of Mid/High EQ 2	-18+18dB	
[P] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz	
LFO Waveform Selects LFO Waveform	Triangle, Sine	
[P] Manual Sets the frequency to which the effect is applied	0100	
g Depth Sets the depth of LFO modulation	0100	
Resonance Sets the resonance amount	–100+100 IS Fx:023	
	98Wet 010, 023	
h Output Mode Normal, W Selects the phaser output mode	et Invert Fx:067	
i Switches the order of the overdrive and phaser connection		
Wet/Dry Dry, 1:9999:1, V Table , "Sets the balance between the effect and dry sounds," on p		
j Src Off. Table , "Selects the modulation source of the effect balance,"	Tempo on page 323	
Amt Table, "Sets the modulation amount of the effect bal- ance," on page 323	-100+100	

082: OD/HG - Mt. Delay

(Overdrive/Hi.Gain - Multitap Delay)

This effect combines a mono-type overdrive/high-gain distortion and a multitap delay.

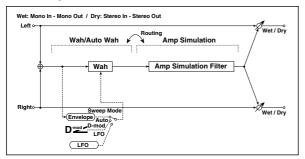


	[O] Drive Mode Over Switches between overdrive and high-gain distortion	drive, Hi-Gain
а	Drive Sets the degree of distortion	1100 ☞ Fx:006
	[O] Output Level Sets the overdrive output level	050 x:006, D ≝≝≝
b	Src Selects the modulation source for the overdrive output	OffTempo level
	Amt Sets the modulation amount of the overdrive output leve	–50+50 el
с	[O] Low Cutoff [Hz] Sets the center frequency for Low EQ (shelving type)	201.00kHz
J	Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-18+18dB
	[O] Mid1 Cutoff [Hz] 3 Sets the center frequency for Mid/High EQ 1 (peaking t	0010.00kHz ype)
d	Q Sets the band width of Mid/High EQ 1	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Mid/High EQ 1	–18+18dB
	[O] Mid2 Cutoff [Hz] 50020.00kHz Sets the center frequency for Mid/High EQ 2 (peaking type)	
е	Q Sets the band width of Mid/High EQ 2	0.510.0 ☞ Fx:006
	Gain [dB] Sets the gain of Mid/High EQ 2	-18+18dB
f	[D] Tap1 Time [msec] Sets the Tap1 delay time	0680msec
1	Tap1 Level Sets the Tap1 output level	0100 IS® Fx:045
	[D] Tap2 Time [msec] Sets the Tap2 delay time	0680msec
g	Feedback Sets the Tap2 feedback amount	-100+100
h	[D] Mt.Delay Wet/Dry Dry, 2: Sets the multitap delay effect balance	9898:2, Wet
	High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so Dred	9999:1, Wet ounds," on page 323
i	Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

083: Wah - Amp Sim

(Wah/Auto Wah – Amp Simulation)

This effect combines a mono-type wah and an amp simulation. You can change the order of the effect connection.



a	[W] Frequency Bottom Sets the lower limit of the wah center frequency	0100 ☞ Fx:009
	Frequency Top Sets the upper limit of the wah center frequency	0100 ሜ Fx:009
b	[W] Sweep Mode Auto Selects the control from auto-wah, modulation source, a	, D-mod, LFO and LFO ☞ Fx:009, Dా≝
	Src OffTempo Selects the modulation source for the wah when Sweep Mode=D-mod	
с	[W] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
d	[W] Resonance Sets the resonance amount	0100
	Low Pass Filter Switches the wah low pass filter on and off	Off, On
е	[A] Amplifier Type Selects the type of guitar amplifier	Solid State, British (EL84), American (6L6)
f	$\begin{array}{c} \mbox{WAH} \rightarrow \mbox{AMP} \rightarrow \mbox{WAH} \\ \mbox{Switches the order of the wah and amp simulation connection} \end{array}$	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on par Drmd	
g	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

084: Decimator - Amp

(Decimator – Amp Simulation)

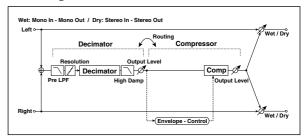
This effect combines a mono-type decimator and an amp simulation. You can change the order of the effect connection.

a	[D] Pre LPFOff, On Turn the harmonic noise caused by lowered sampling on and off #© Fx:014	
	High Damp [%] Sets the ratio of high-range damping	0100%
b	[D] Sampling Freq [Hz] (Sampling Frequency) Sets the sampling frequency	1.00k48.00kH z
	Resolution Sets the data bit length	424 I™ Fx:014
с	[D] Output Level Sets the decimator output level	0100 I® Fx:014
d	[A] Amplifier Type Selects the type of guitar amplifier	Solid State, Brit- ish (EL84), American (6L6)
е	RoutingDECI-AMP, AMP->DECI Switches the order of the wah and amp simulation connection	
	Wet/DryDry, 1:9999:1, Wet Table, "Sets the balance between the effect and dry sounds," on page 323 Dread	
SrcOffTempo f Table , "Selects the modulation source of the effect balance, page 323		ct balance," on
	Amt Table, "Sets the modulation amount of the effect balance," on page 323	-100+100

085: Decimator - Comp

(Decimator – Compressor)

This effect combines a mono-type decimator and a compressor. You can change the order of the effect connection.



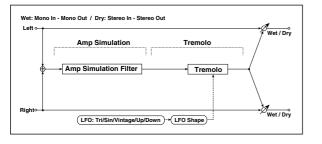
	[D] Pre LPF Turn the harmonic noise caused by lowered sampling o	Off, On
a		™ and on ™ Fx:014
	High Damp [%] Sets the ratio of high-range damping	0100%
b	[D] Sampling Freq [Hz] (Sampling Frequency) Sets the sampling frequency	1.00k48.00kHz
	Resolution Sets the data bit length	424 ☞ Fx:014
с	[D] Output Level Sets the decimator output level	0100 IS Fx:014
d	[C] Sensitivity 1 Sets the sensitivity ISF Fx:	
	[C] Attack Table , "Sets the attack level," on page 323	1100 IS Fx:002
e	Output Level Sets the compressor output level	0100 IS Fx:002
f	Routing DECI→CMP, CMP→DECI Switches the order of the decimator and compressor connection	

		Table , "Sets the balance between the effect and dry so	9999:1, Wet ounds," on page 323
		Src Table , "Selects the modulation source of the effect bala	OffTempo ance," on page 323
		Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

086: AmpSim - Tremolo

(Amp Simulation – Tremolo)

This effect combines a mono-type amp simulation and a tremolo.

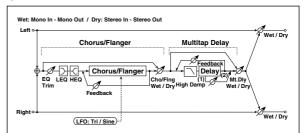


a	[A] Amplifier Type Selects the type of guitar amplifier	Solid State, British (EL84), American (6L6)
b	[T] LFO Waveform Triangle, Sine, Vinta Selects LFO Waveform	ge, Up, Down ☞ Fx:032
b	LFO Shape Determines how much the LFO waveform is changed	−100+100 ☞ Fx:020
с	[T] LFO Frequency [Hz] 0.0220.00H Sets the LFO speed	
d	[T] Depth 010 Sets the depth of LFO modulation	
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
е	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	

087: Cho/Fing - Mt.Dly

(Chorus/Flanger – Multitap Delay)

This effect combines a mono-type chorus/flanger and a multitap delay.

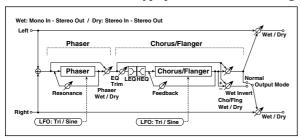


а	[F] Delay Time [msec] 0.050.0ms Sets the delay time 0.050.0ms	
b	[F] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz
	LFO Waveform Selects LFO Waveform	Triangle, Sine
с	[F] Depth Sets the depth of LFO modulation	0100
U	Feedback Sets the feedback amount	−100+100 ☞ Fx:020
d	[F] EQ Trim Table , "Sets the EQ input level," on page 323	0100
	[F] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	–15+15dB
e	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	–15+15dB
f	[F] Cho/Fing Wet/Dry -Wet2:98, Dry, 2:98Wet Sets the effect balance of the chorus/flanger Fx:010, 020	
	[D] Tap1 Time [msec] Sets the Tap1 delay time	0680msec
g	Tap1 Level Sets the Tap1 output level	0100 ☞ Fx:045
h	[D] Tap2 Time [msec] Sets the Tap2 delay time	0680msec
	Feedback (Tap2) Sets the Tap2 feedback amount	-100+100
i	[D] Mt.Delay Wet/Dry Dry, 1:9999:1, Wet Sets the multitap delay effect balance	
	High Damp [%] Sets the damping amount in the high range	0100% ☞ Fx:043
	Wet/Dry Dry, 1:9999:1, Wet Table , "Sets the balance between the effect and dry sounds," on page 323	
j	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

088: Phaser - Cho/Flng

(Phaser – Chorus/Flanger)

This effect combines a mono-type phaser and a chorus/flanger.

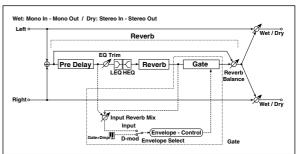


	[P] LFO Frequency [Hz]	0.0220.00Hz	
	Sets the LFO speed	0.0220.00Hz	
a	LFO Waveform Selects LFO Waveform	Triangle, Sine	
	[P] Manual Sets the frequency to which the effect is applied	0100	
ь	Depth Sets the depth of LFO modulation	0100	
	Resonance Sets the resonance amount	–100+100 ☞ Fx:023	
с	[P] Phaser Wet/Dry -Wet2:98, D Sets the phaser effect balance #3	Dry, 2:98Wet ≊ Fx:010, 023	
d	[F] LFO Frequency [Hz] Sets the LFO speed	0.0220.00Hz	
u	LFO Waveform Selects LFO Waveform	Triangle, Sine	
	[F] Delay Time [msec] Sets the delay time	0.050.0msec	
е	Depth Sets the depth of LFO modulation	0100	
	Feedback Sets the feedback amount	–100+100 ☞ Fx:020	
f	[F] EQ Trim Table , "Sets the EQ input level," on page 323	0100	
	[F] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-15+15dB -15+15dB	
g	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323		
h	[F] Cho/Fing Wet/Dry -Wet2:98, Dry, 2:98Wet Sets the effect balance of the chorus/flanger 🖙 Fx:010, 020		
h Output Mode Normal, Wet Inver Selects the output mode for the chorus/flanger ISF Fx:060		nal, Wet Invert S Fx:060	
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so Dred	9999:1, Wet ounds," on page 323	
i	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323		
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100	

089: Reverb - Gate

(Reverb – Gate)

This effect combines a mono-type reverb and a gate.



	[R] Reverb Time [sec]	0.110.0sec
а	Sets the reverberation time	0.110.0300
α	High Damp [%] Sets the damping amount in the high range	0100%
b	[R] Pre Delay [msec] 0200msec Sets the delay time of the reverb sound and gate control signal	
с	[R] EQ Trim Table , "Sets the EQ input level," on page 323	0100
-	[R] Pre LEQ Gain [dB] Table , "Sets the gain of Low EQ," on page 323	-15+15dB
d	Pre HEQ Gain [dB] Table , "Sets the gain of High EQ," on page 323	-15+15dB
е	[R] Reverb Balance Dry, 1: Sets the reverb effect balance	9999:1, Wet
	[G] Envelope Select Switches between modulation source control and input	D-mod, Input signal control
f	Src OffGate2+Dmpr Selects the modulation source that controls the gate when Envelope Select is set to D-mod	
g	[G] Input Reverb Mix Dry, 1:9999:1, Wet Sets the balance between the dry and reverb sounds of the gate control nal.	
	Threshold Sets the gate threshold level	0100 ®
h	[G] Polarity Switches between non-invert and invert of the gate on/	+, - off state ☞ Fx:005
i	[G] Attack Sets the attack time	1100 IIII Fx:005
1	Release Sets the release time	1100 ☞ Fx:005
	Wet/Dry Dry, 1: Table , "Sets the balance between the effect and dry so	9999:1, Wet ounds," on page 323
j	Src OffTempo Table , "Selects the modulation source of the effect balance," on page 323	
	Amt Table , "Sets the modulation amount of the effect bal- ance," on page 323	-100+100

f: Envelope Select, f: Src, g: Input Reverb Mix, g: Threshold

The "Envelope Select" parameter enables you to select whether turning the gate on and off is triggered by the input signal level or controlled directly by the modulation source. You can select from **Off** to **Gate2+Dmpr** for the Src parameter to specify the modulation source.

When "Envelope Select" is set to **Input**, the gate is controlled by the level of signals that are the combination of the dry sound and the reverb sound. When the signal level exceeds the threshold, the gate opens and the reverb sound is output.

Normally, set "Input Reverb Mix" to **Dry** (the gate is controlled only by the dry sound). If you wish to extend the gate time, set the "Input Reverb Mix" value higher and adjust the "Threshold" value.

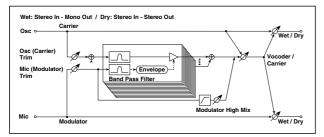
090: Vocoder

This effect can be assigned only to the D FX processor (usually, the modulating effect for the Keyboard tracks). When this effect is selected, the microphone input no longer goes to the Voice Processor, but is routed to the D FX processor.

When programming the Vocoder, you can use one of the specially programmed "Vocoder" Performances (in the SFX bank) as templates.

Before using the Vocoder, you must connect a microphone and, set the 1/MIC selector to the MIC position.

This effect applies the character of the microphone signal (Modulator) to the track's oscillator signal input (Carrier). Therefore, the voice can modulate one of the sounds of the Pa1X. A common use of this effect is to produce the sound of various instruments by inputting a voice to the Modulator via a microphone. A special effect is also achieved by using rhythm or effect sounds. Strings or distortion guitar sounds with a lot of harmonics are suitable as a Carrier.



а	Osc (Carrier) Trim 0100 Sets the input level of the oscillator (Carrier)
b	Mic (Modulator) Trim 0100 Sets the input level of the microphone (Modulator)
с	Formant Shift -2+2 Sets the height of the frequency for the vocoder effect
d	Response 0100 Sets the speed of the response to the modulator input
	Low Gain [dB] -12+12 Sets the low-range output level of the vocoder
g	High Gain [dB] -12+12 Sets the high-range output level of the vocoder
f	Modulator Mix 0100 Sets the high-range output level of the modulator
h	Vocoder/Carrier Carrier, 1:9999:1, Vocoder Sets the balance between the vocoder output and the Carrier
	Wet/Dry Dry, 1:9999:1, Wet Sets the balance between the effect and dry sounds Dread
i	Src OffTempo Selects the modulation source of the effect balance
	Amt -100+100 Sets the modulation amount of the effect balance

c: Formant Shift

By offsetting the Carrier filter, you can adjust the height of the frequency range to which the vocoder effect is applied. The tonal quality will change significantly.

f: Modulator Mix

This parameter sets the high-range output level of the right channel sound (Modulator). If the modulator is a human voice, it will make the words more clear.

The "Vocoder/Carrier" parameter sets the balance between the vocoder sound and the left channel sound (Carrier). The "Wet/ Dry" parameter sets the balance between the effect and dry sound.

If you wish to change the intensity of the vocoder effect, select **Wet** for "Wet/Dry", and adjust the balance using the "Vocoder/ Carrier" parameter.

Note: When you assign the Vocoder effect to the D FX processor, the direct input can no longer be heard. The input signal goes entirely to the FX processor. To listen to the direct signal, you can still use the "Wet/Dry" parameter to increase the level of the direct signal (Dry).

Please remember to set the tracks Pan value to Off, and the Send value to 127.

You can add reverb to the Vocoder, by way of the "D to C" parameter.

Hint: To create a new Song making use of the Vocoder, enter the Sequencer-Backing Sequence mode with a Performance that includes the Vocoder effect.

Assignable parameters

List of Footswitch and EC5 functions

The following functions can be assigned to a footswitch or Korg EC5's switch pedal.

Function	Meaning	
Off	No function assigned	
Style Start/Stop		
Play Stop Seq1		
Play Stop Seq2	1	
Pause Seq1	Same functions of the control panel but- tons with the same name	
Pause Seq2		
Synchro Start		
Synchro Stop		
Tap Tempo/Reset		
Tempo Lock		
Ritardando	Progressively increases the Tempo value	
Accelerando	Progressively decreases the Tempo value	
Tempo Up	Increases the Tempo value	
Tempo Down	Decreases the Tempo value	
Intro 1		
Intro 2	1	
Intro 3 / Count In		
Ending 1		
Ending 2		
Fill 1	Same functions of the control panel but-	
Fill 2	tons with the same name	
Fill 3 / Break		
Variation 1		
Variation 2		
Variation 3		
Variation 4		
Variation Up	Selects the next Variation	
Variation Down	Selects the previous Variation	
Fade In/Out		
Memory	Same functions of the control panel but-	
Bass Inversion	tons with the same name	
Manual Bass		
Style Up	Selects the next Style	
Stye Down	Selects the previous Style	
Single Touch		
STS1		
STS2	Same functions of the control panel but- tons with the same name	
STS3	Selects the next STS	
STS4		
STS Up		
STS Down	Selects the previous STS	
Perform. Up	Selects the next Performance	
Perform. Down	Selects the previous Performance	

Function	Meaning	
Style Change	Style number	
Sound Up	Selects the next Sound	
Sound Down	Selects the previous Sound	
Transpose Down		
Transpose Up	Same functions of the control panel but-	
Upper Octave Up	tons with the same name	
Upper Octave Down		
Punch In/Out	Turns Punch Recording on/off	
FX A Mute		
FX B Mute		
FX C Mute		
FX D Mute		
FX All Mute		
Style-Upper1 Mute		
Style-Upper2 Mute		
Style-Upper3 Mute		
Style-Lower Mute		
Style-Drum Mute		
Style-Percussion Mute		
Style-Bass Mute		
Style-Acc1 Mute		
Style-Acc2 Mute		
Style-Acc3 Mute		
Style-Acc4 Mute		
Style-Acc5 Mute		
Style-Acc1-5 Mute		
Song-Melody Mute	Mute of Song track 4 (usually, the Mel- ody track)	
Song-Drum&Bass Mode	Mute of all tracks, apart for track 2 (usu- ally Bass) and 10 (usually Drum)	
Solo Selected Track		
Damper Pedal		
Soft Pedal		
Sostenuto Pedal		
Bass&Lower Backing	Mutes all tracks, except for Bass and Lower	
Ensemble On/Off		
QuarterTone	Turns Quarter Tone on/off	
Chord Latch	Holds the recognized chord until the pedal is released	
Chord Latch + Damper	Holds the recognized chord until the pedal is released, and sustains the tracks where the Damper has been turned on	
Glide	When the pedal is pressed, affected notes on Upper tracks are bent down, according to settings for the Pitch Bend on the same tracks. When the pedal is released, notes return to the normal pitch, at the speed defined by the "Time" parameter (see "Glide" on page 225).	

Function	Meaning	
Microphone Talkback	Turns all Voice Processor effects down, to let you address the audience. See "Voice Processor Setup: Talk" on page 238.	
Voice Proc. Sw. A Tgl	Toggle-style switch controls assigned to	
Voice Proc. Sw. B Tgl	the Voice Processor. Press once to acti- vate , a second time to deactivate. See	
Voice Proc. Sw. C Tgl	"Voice Processor Preset: Controls" on	
Voice Proc. Sw. D Tgl	page 246, for information on the assigned Voice Processor parameters.	
Voice Proc. Sw. A Mom	Momentary switch controls assigned to	
Voice Proc. Sw. B Mom	the Voice Processor. Press to activated, release to deactivate. See "Voice Proces-	
Voice Proc. Sw. C Mom	sor Preset: Controls" on page 246, for	
Voice Proc. Sw. D Mom		
FX CC12 Switch	Standard FX controllers	
FX CC13 Switch	Standard FX controllers	
Rotary Spkr On/Off		
Rotary Spkr Fast/Slow		
Drawbar Perc On/Off		
Drawbar Noise On/Off		
Text Page Up Text Page Down	These options let you move to the previ- ous or next page, when reading a text file loaded with a Song (see "Text files loaded with Standard MIDI Files and MP3 files" on page 142) or Song Book entry (see "Lyrics as text files associated to a SongBook entry" on page 159).	
SongBook Next	Moves to the next SongBook entry in the selected Custom List.	
Pad 1		
Pad 2		
Pad 3	Same functions of the control panel but- tons with the same name	
Pad 4]	
Pad Stop		

List of Assignable Pedal and Assignable Sliders functions

The following functions can be assigned to a continuous pedal or to the Assignable Sliders.

Function	Meaning	
Off	No function assigned	
Master Volume		
Acc. Volume	Accopaniment Volume	
Keyboard Expression		
Joystick +X	Joystick right	
Joystick -X	Joystick left	
Joystick +Y	Joystick forward	
Joystick -Y	Joystick backward	
Upper VDF Cutoff	Filter cutoff (for Sounds assigned to the Upper tracks)	
Upper VDF Resonance	Filter resonance (for Sounds assigned to the Upper tracks)	
Voice Proc. Cnt.Ctl A	Continuous controls assigned to the	
Voice Proc. Cnt.Ctl B	Voice Processor. See "Voice Processor Pre- set: Controls" on page 221, for informa-	
Voice Proc. Cnt.Ctl C	tion on the assigned Voice Processor	
Voice Proc. Cnt.Ctl D	parameters.	
Mic In Volume		
FX CC12 Ctl	Standard FX controllers	
FX CC13 Ctl	- Standard FX controllers	
Max CD Volume [%]		
Max MP3 Volume [%]		

List of Assignable Switches functions

The following functions can be assigned to the Assignable Switches.

Function	Meaning
Off	No function assigned
Ritardando	Progressively increases the Tempo value
Accelerando	Progressively decreases the Tempo value
Style Up	Selects the next Style
Stye Down	Selects the previous Style
Perform. Up	Selects the next Performance
Perform. Down	Selects the previous Performance
FX A Mute	
FX B Mute	
FX C Mute	
FX D Mute	
FX All Mute	
Style-Upper1 Mute	
Style-Upper2 Mute	
Style-Upper3 Mute	
Style-Lower Mute	
Style-Drum Mute	
Style-Percussion Mute	
Style-Bass Mute	
Style-Acc1 Mute	
Style-Acc2 Mute	
Style-Acc3 Mute	
Style-Acc4 Mute	
Style-Acc5 Mute	
Style-Acc1-5 Mute	
Song-Melody Mute	Mute of Song track 4 (usually, the Mel- ody track)

Function	Meaning
Song-Drum&Bass Mode	Mute of all tracks, apart for track 2 (usu- ally Bass) and 10 (usually Drum)
Solo Selected Track	
Bass&Lower Backing	Mutes all tracks, except for the Bass and Lower tracks
QuarterTone	Turns Quarter Tone on/off
Audio In Mute	
Microphone Talkback	Turns all Voice Processor effects down, to let you address the audience. See "Voice Processor Setup: Talk" on page 238.
Voice Proc. Sw. A Tgl	Toggle-style switch controls assigned to
Voice Proc. Sw. B Tgl	the Voice Processor. Press once to acti- vate , a second time to deactivate. See
Voice Proc. Sw. C Tgl	"Voice Processor Preset: Controls" on
Voice Proc. Sw. D Tgl	page 246, for information on the assigned Voice Processor parameters.
Voice Proc. Sw. A Mom	Momentary switch controls assigned to
Voice Proc. Sw. B Mom	the Voice Processor. Press to activated, release to deactivate. See "Voice Proces-
Voice Proc. Sw. C Mom	sor Preset: Controls" on page 246, for
Voice Proc. Sw. D Mom	information on the assigned Voice Pro- cessor parameters.
FX CC12 Switch	Standard FX controllers
FX CC13 Switch	
Rotary Spkr On/Off	
Rotary Spkr Fast/Slow	
Drawbar Perc On/Off	
Drawbar Noise On/Off	
Text Page Up	These options let you move to the previ-
Text Page Down	ous or next page, when reading a text file loaded with a Song (see "Text files loaded with Standard MIDI Files and MP3 files" on page 142) or Song Book entry (see "Lyrics as text files associated to a SongBook entry" on page 159).
SongBook Next	Moves to the next SongBook entry in the selected Custom List.

List of functions assignable to Voice Processor's Continuous Controls

The following Voice Processor functions can be assigned to a continuous pedal or to the Assignable Slider, by using one of the four corresponding <Cnt> "meta-functions" available on the "Voice Processor Preset: Controls" page of the Global mode (see "Voice Processor Preset: Controls").

Lead Voice Level Harmony Output Level Voice 1 Level Voice 1 Gender Voice 2 Level Voice 2 Gender Voice 3 Level Voice 3 Gender Voice 4 Level Voice 4 Gender Harmony Smooth Human Style Amount Thicken Level Thicken Detune Thicken Spread Vibrato Depth Lead to Reverb Harmony to Reverb Lead to Delay Harmony to Delay Delay to Reverb Reverb/Delay Balance Effect Level Voice Modeling Level

List of functions assignable to Voice Processor's Switch Controls

The following Voice Processor functions can be assigned to a footswitch, to an Assignable Switch, or to and EC5 swtich pedal, by using one of the four corresponding <Sw> "meta-functions" available on the "Voice Processor Preset: Controls" page of the Global mode (see "Voice Processor Preset: Controls").

Lead On/Off Harm/Model On/Off Effect On/Off Thicken On/Off Latch On/Off Harmony Hold

Voice 1 On/Off Voice 2 On/Off Voice 3 On/Off Voice 4 On/Off Harmony/Modeling Switch Pitch Correction On/Off

Scales

The following is a list of scales (or tunings) you can select in various operating modes.

ious operating	moues.
Equal	Equal tuning, the standard scale for modern Western music. It is made of 12 identical semi- tones.
Pure Major	Major chords in the selected key are perfectly tuned.
Pure Minor	Minor chords in the selected key are perfected tuned.
Arabic	An arabic scale, using quarters of tone. Set the Key parameter as follow:
	C - for the "rast C/bayati D" scale
	D - for the "rast D/bayati E" scale
	F - for the "rast F/bayati G" scale
	G - for the "rast G/bayati A" scale
	A# - for the "rast Bb/bayati C" scale
Pythagorean	Pythagorean scale, based on the music theories of the great Greek philosopher and matematician. It is most suitable for melodies.
Werckmeister	
	Late Baroque/Classic Age scale. Very suitable for XVIII Century music.
Kirnberger	Harpsichord scale, very common during the XVIII Century.
Slendro	Scale of the Indonesian Gamelan. The octave is divided in 5 notes (C, D, F, G, A). The remaining notes are tuned as in the Equal tuning.
Pelog	Scale of the Indonesian Gamelan. The octave is divided in 7 notes (all white keys, when Key is $=$ C). The black keys are tuned as in the Equal tuning.
Stretch	Simulates the "stretched" tuning of an acoustic piano. Basically an equal tuning, the lowest notes are slightly lower, while the highest notes are slightly higher than the standard.
User	User scale, i.e. scale programmed by the user for the Style Play, Backing Sequence and Song Play modes. The user scale can be saved to a Perfor- mance, Style Performance, STS or Song. You can't select a User scale in Global mode.

MIDI Controller

The following is a table including all Control Change messages, and their effect on various Pa1X functions.

CC#	CC Name	Pa1X Function
0	Bank Select	Program selection
1	Mod1 (Y+)	Joystick forward
2	Mod2 (Y-)	Joystick backward
3	Undef. ctl	
4	Foot ctl	
5	Port.time	
6	Data ent.	
7	Volume	Track volume
8	Balance	
9	Undef. ctl	
10	Pan Pot	Track panning
11	Expression	Expression
12	Fx Ctl 1	
13	Fx Ctl 2	
14-15	Undef. ctl	
16	Gen.pc.1	
17	Gen.pc.2	
18	Slider	
19	Gen.pc.4	
20-31	Undef. ctl	
	ange #32-63 are the l	
trol Change		(Most Significant Byte), and are
trol Change changed ac	e #0-31, i.e. the MSB cording to their MSB	(Most Significant Byte), and are counterparts.
trol Change changed ac 64	e #0-31, i.e. the MSB cording to their MSB Damper	(Most Significant Byte), and are counterparts.
trol Change changed ac 64 65	e #0-31, i.e. the MSB cording to their MSB Damper Portamento	(Most Significant Byte), and are counterparts. Damper pedal
trol Change changed ac 64 65 66	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal
trol Change changed ac 64 65 66 67	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal
trol Changed changed ac 64 65 66 67 68	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal Legato	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal
trol Changed ac changed ac 64 65 66 67 68 69	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal Legato Hold 2	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal
trol Changed changed ac 64 65 66 67 68 69 69 70	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal
trol Changed changed ac 64 65 66 67 68 69 70 70 71	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance
trol Changed changed ac 64 65 66 67 68 69 70 71 71 72	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time
trol Changed changed ac 664 665 667 68 69 70 70 71 71 72 73	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time
trol Changed changed ac 664 665 667 68 69 70 71 72 72 73 73	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack F.CutOff	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance)
trol Changed changed ac 64 65 66 67 68 69 70 71 71 72 73 73 73 73	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack F.CutOff Decay T.	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance) Decay time
trol Changed changed ac 664 665 667 68 69 70 70 71 72 73 73 74 75 75	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack F.CutOff Decay T. Lfo1 Sp.	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance) Decay time Vibrato speed
trol Changed changed ac 664 665 667 668 69 70 71 71 72 73 73 73 74 75 75 76 77	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack F.CutOff Decay T. Lfo1 Sp. Lfo1 Dpt	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance) Decay time Vibrato speed Vibrato depth
trol Changed changed ac 64 65 66 67 68 69 70 71 71 72 73 73 73 73 74 75 76 76 77 78	e #0-31, i.e. the MSB cording to their MSB Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack F.CutOff Decay T. Lfo1 Sp. Lfo1 Dpt Lfo1 Dly	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance) Decay time Vibrato speed Vibrato depth
trol Changed changed ac 64 65 66 67 68 69 70 70 71 72 73 73 73 73 73 73 73 73 73 73 73 73 73	 #0-31, i.e. the MSB cording to their MSB cording to their MSB cording to their MSB marked by the second s	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance) Decay time Vibrato speed Vibrato depth
trol Changed changed ac 664 665 667 670 670 770 771 772 773 774 775 776 776 777 78 778 779 800	 #0-31, i.e. the MSB cording to their MSE Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack F.CutOff Decay T. Lfo1 Sp. Lfo1 Dpt Lfo1 Dly FilterEg Gen.pc.5 	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance) Decay time Vibrato speed Vibrato depth
trol Changed changed ac 64 65 66 67 68 69 70 70 71 71 72 73 73 73 73 74 73 73 74 73 73 74 73 73 74 75 76 76 77 78 79 79 80	 #0-31, i.e. the MSB cording to their MSB cording to their MSB cording to their MSB cording to their MSB manual statements Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack F.CutOff Decay T. Lfo1 Sp. Lfo1 Dpt Lfo1 Dly FilterEg Gen.pc.5 Gen.pc.6 	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance) Decay time Vibrato speed Vibrato depth
trol Changed changed ac 64 65 66 67 68 69 70 70 71 72 73 73 73 73 73 73 73 73 73 73 73 73 73	 #0-31, i.e. the MSB cording to their MSB cording to their MSE Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack F.CutOff Decay T. Lfo1 Sp. Lfo1 Dpt Lfo1 Dly FilterEg Gen.pc.5 Gen.pc.6 Gen.pc.7 	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance) Decay time Vibrato speed Vibrato depth
trol Changed changed ac 64 65 66 67 68 69 70 71 71 72 73 73 73 73 73 73 73 73 73 73 73 73 73	 #0-31, i.e. the MSB cording to their MSE Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack F.CutOff Decay T. Lfo1 Sp. Lfo1 Dpt Lfo1 Dpt Lfo1 Dly FilterEg Gen.pc.5 Gen.pc.7 Gen.pc.8 	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance) Decay time Vibrato speed Vibrato depth
trol Changed changed ac 64 65 66 67 68 69 70 70 71 72 73 73 73 73 74 73 73 74 73 73 73 73 73 74 73 73 73 73 73 74 73 73 73 73 73 74 73 73 73 73 73 73 73 73 73 73 73 73 73	 #0-31, i.e. the MSB cording to their MSB cording to their MSB cording to their MSB cording to their MSB cordination (Contemporation) Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack F.CutOff Decay T. Lfo1 Sp. Lfo1 Dpt Lfo1 Dpt Lfo1 Dly FilterEg Gen.pc.5 Gen.pc.6 Gen.pc.8 Port.ctl 	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance) Decay time Vibrato speed Vibrato depth
trol Changed changed ac 64 65 66 67 67 68 69 70 70 70 71 72 73 73 73 73 73 73 73 73 73 73 73 73 73	 #0-31, i.e. the MSB cording to their MSB cording to their MSE Damper Portamento Sostenuto Soft pedal Legato Hold 2 Sustin level F.Res.Hp Release Attack F.CutOff Decay T. Lfo1 Sp. Lfo1 Dpt Lfo1 Dly FilterEg Gen.pc.5 Gen.pc.6 Gen.pc.7 Gen.pc.8 Port.ctl Undef. ctl 	(Most Significant Byte), and are counterparts. Damper pedal Sostenuto pedal Soft pedal Filter resonance Release time Attack time Filter cutoff (Brilliance) Decay time Vibrato speed Vibrato depth Vibrato initial delay

CC#	CC Name	Pa1X Function
94	Fx 4 ctl	
95	Fx 5 ctl	
96	Data Inc	
97	Data Dec	
98	NRPN Lsb	See table below ^(*)
99	NRPN Msb*	See table below ^(*)
100	RPN Lsb	
101	RPN Msb	
102-119	Undefined ctl	
120	AllSOff	
121	Res Ctl	Reset All Controllers
122	LocalCt	
123	NoteOff	
124	OmniOff	
125	Omni On	
126	Mono On	
127	Poly On	

(*) The following NRPN messages are recognized by the Pa1X:

NRPN	CC#99 (MSB)	CC#98 (LSB)	CC#06 (Data Entry)
Vibrato Rate	1	8	0127 ^(a)
Vibrato Depth	1	9	0127 ^(a)
Vibrato Decay	1	10	0127 ^(a)
Filter Cutoff	1	32	0127 ^(a)
Resonance	1	33	0127 ^(a)
EG Attack Time	1	99	0127 ^(a)
EG Decay Time	1	100	0127 ^(a)
EG Release Time	1	102	0127 ^(a)
Drum Filter Cutoff	20	dd ^(b)	0127 ^(a)
Drum Filter Resonance	21	dd ^(b)	0127 ^(a)
Drum EG Attack Time	22	dd ^(b)	0127 ^(a)
Drum EG Decay Time	23	dd ^(b)	0127 ^(a)
Drum Coarse Tune	24	dd ^(b)	0127 ^(a)
Drum Fine Tune	25	dd ^(b)	0127 ^(a)
Drum Volume	26	dd ^(b)	0127
Drum Panpot	28	dd ^(b)	0127 ^(a)
Drum Rev Send (FX 1)	29	dd ^(b)	0127 ^(a)
Drum Mod Send (FX 2)	30	dd ^(b)	0127 ^(a)

(a). 64 = No change to the original parameter's value (b). dd = Drum Instrument No. 0...127 (C0...C8)

Note: These controls are reset when stopping the Song, or selecting a new Song.

MIDI Implementation Chart

KORG Pa1X OS Version 2.0 - Sept. 20, 2004

Basic Channel	Default				
Basic Channel		1–16	1–16	Memorized	
	Changed	1–16	1–16		
	Default		3		
Mode	Messages	x	х		
	Altered	*****			
Note		0–127	0–127		
Number:	True Voice	*****	0–127		
	Note On	O 9n, V=1–127	O 9n, V=1–127		
Velocity	Note Off	X V=64	х		
	Poly (Key)	0	0	Sequencer data only	*A
Aftertouch	Mono (Channel)	0	0		*A
Pitch Bend		0	0		
	0, 32	0	0	Bank Select (MSB, LSB)	*A
	1, 2	0	0	Modulations	*A
	6	0	0	Data Entry MSB	*A
	38	x	0	Data Entry LSB	*A
	7, 11	0	0	Volume, Expression	*A
	10, 91, 93	0	0	Panpot, A/C FX Send, B/D FX Send	*A
Control Change	64, 66, 67	0	0	Damper, Sostenuto, Soft	*A
change	65, 5	0	0	Portamento On/Off, Portamento Time	*A
	71, 72, 73	0	0	Harmonic Content, EG time (Release, Attack)	*A
	74, 75	0	0	Brightness, Decay Time	*A
	76, 77, 78	0	0	Vibrato Rate, Depth, Delay	*A
	98, 99	0	0	NRPN (LSB, MSB)	*A, 1
	100, 101	0	0	RPN (LSB, MSB)	*A, 2
	120, 121	x	0	All sounds off, Reset all controllers	*A
Program		O 0–127	O 0–127		*A
Change	True #	*****	0–127		
System Exclusive		x	х		*3
	Song Position	x	х		
System Common	Song Select	x	х		
common	Tune	x	х		
System	Clock	0	0		*4
Real Time	Commands	0	0		*4
	Local On/Off	x	х		
Aux	All Notes Off	x	O (123–127)		
Messages	Active Sense	0	0		
	Reset	x	х		
Notes	*1: Drawbars settings, *2: LSB, MSB = 00,00: I *3: Includes Inquiry an	u when MIDI Filters In and Sound parameters, Selec Pitch Bend range, =01,00 id Master Volume messag when the Clock Send para	tion of SongBook entr Fine Tune, =02,00: Co Jes, FX settings, Quarte	ries. urse Tune. er Tone settings.	

Mode 1:OMNI ON, POLY Mode 3:OMNI OFF, POLY Mode 2:OMNI ON, MONO Mode 4:OMNI OFF, MONO

O: Yes X: No

Parameters

Control panel and operating mode parameters

The following table shows the parameters you can save to memory when selecting one of the "Write" commands from the Style Play, Song Play, Sequencer, Global and Disk mode page menu, as well as when pressing the "Write" button in the SongBook > Book Edit 1 page.

Legend: Perf (Performance), STS (Style's STS), Sty Perf (Style Performance), STS SB (SongBook's STS), SB (SongBook Entry), Sty Stp (Style Play Setup), Sng Stp (Song Play Setup), Glb Stp (Global Setup), Mid Stp (MIDI Setup), VP Stp (Voice Processor Setup), VP Tlk (Voice Processor Talk Setup), VP Pst (Voice Processor Preset), Dsk Stp (Disk Setup).

Page	Parameter	Perf	STS	Sty Perf	STS SB	SB					Global				-		Note
Control Panel				-			Sty Stp	Sng Stp	Seq Stp	GID STP	Μία Stp	VP Stp	VP TIK	VP Pst	ОЗК ЗТР		
	Master Volume (Slider)								402	log conti	rol						
	Acc./Seq Volume (Slider)		1	L	-	-			Ana		10/	-	-	1	1		St/Sg
	Assign. Slider Functions						──┤			1						$ \rightarrow $	5039
	Slider Mode						───			v							G
		V	N		V		\vdash									L5	G
	Drawbar Settings	V	V	V	V	V					L						
	Selected Operating Mode			-				Sty	le Play s	elected a	at startup)			-		
	Memory	L ,	L ,		,	V											
	Bass Inversion	V	V		V											L7	
	Manual Bass	V	V		V											L10	
	Fade In/Out																
	Selected Style Number	V															
	Single Touch								Set to "	'On" at s	tartup						
	Tap Tempo / Reset																
	Synchro Start/Stop					\checkmark				S	et to "Of	f" at st	artup				
	Start/Stop																
	Style Element (Intro 1-3,																<u> </u>
	Ending 1/2, Var 1-4,																G
	Fill 1-3)																
-	Sequencer 1/2 Transport						<u> </u>										<u> </u>
	Balance (Slider)																
	Selected STS					STS	#1 selecte	d when	selecting	a a Style	with SIN	IGLE TO	UCH = 0	On)			I
	Tempo		1	V		V		a	l		1	1		1	1		G
	Tempo Lock	· ·		v					Set to "	Off" at s	tartun						
										Off ats							
	Display Hold	_							Set to	UTT" at s	tartup						
	Chord Scanning	V	N		N												G
	Keyboard Mode	V	\checkmark		V												
	Style Change								Set to "	Off" at s	tartup						
	Perf./Sound Select						\checkmark										
	Selected Performance							Perfor	mance 1	-1 select	ed at star	rtup					
	Selected Sound	K/St	K	St	K	St											Т
	SongBook																
	Ensemble On/Off	1	1		V												
	Assign. Switch Functions		1		V								<u> </u>			L4	1
	Pads	V	V		V											L3	G
	Master Transpose	V		V	•	1	┥───┤									L1	-
	Upper Octave Transpose		U	v	U	v	───										т
	Opper Octave Transpose	U	0		0								L				<u> </u>
Style Play Mode																	
	Selected Style	V				V											G
	Meter							S	aved in t	the Style	pattern						
	Tempo																
Main (Kbd Trk)	Selected Perf/STS																G
	Selected Songs																
	Keyboard Sounds	К	К		К							1	1		1		
	Upper Trk Octave Transp.	U	U	1	U		<u> </u>			1	1	1	1	1	1		1
	Master Transpose		1	V		V				1		1	1	1		L1	G
	Original Style Sounds	V		v.		V	++		1	1	1	+	1	1	1	\vdash	SG
Main (Sty Trk)	Style Trk Octave Transp.	St		St		St										+	
	Style Trk Sounds	St		St		St	───	Selecto	d when	"Origin	 al Style So	unde"	is set to	"Off"		\vdash	т
	Track Volume	K/St	К	St	К	St	r	Jelette		Unging	ai style st					$ \rightarrow $	- '
Main • Volume				C+		6.	+									1.0	
M CTC N		K/St	ĸ	St	ĸ	St	#1 selecte									Lð	
Main • STS Name	Selected STS					575	<i>FI</i> selecte	a wnen	selectin	g a style	(with Silv	IGLE IC	OCH = 0				
	Harmony/Modeling													V			
	Lead					L											
	V1-V4													V			
	Pitch											1	1	1	1		1
	Thicken		1	1			<u> </u>		1	1	1	1	1	√	1	\square	1 ~
Main • Mic	Effects		1	1			++		<u> </u>	1	<u> </u>	+	1	V.	1	\vdash	G
	Talk			+		-	┼───┼		<u> </u>			+	1	<u> </u>		\vdash	1
1	Play/Mute			-		-	┼───┤				-	+	- ×			\vdash	4
		1	1	1	1	1	1		i .	1	1	1	1	1	1	1 1	1
		1	1		.1		++			-		-				177	
	VP Preset VP Lock	V	V		V					1						L2	

Paga	Parameter	Dorf	стс	Sty Perf	стс с р	св					Global						Note
Page				Sty Perr		28	Sty Stp	Sng Stp	Seq Stp	Glb Stp	Mid Stp	VP Stp	VP Tlk	VP Pst	Dsk Stp		Note
	Scale	V	V		V											L14	
Main a Cult Carla	Key	V	N		V											L14	~
Main • Sub-Scale	Quarter Tone Detuned Notes	V	V		V											L14 L14	G
	Scale Lock	Ň	v		v					V						L14	
	Pad Assignment	1	1		V					,						L3	-
Main e Pad	Pad lock									1							G
	Split Point		V		V											L6	
Main e Salit	Chord Recogn. Mode		V		V											L11	G
Main • Split	Split Point Lock									V							G
	Style Preferences Lock									V							
	Upper Volume Link						V										G
Mix/Tun • Volume/Pan	Pan	K/St		St	K	St											т
	Volume	K/St		St	К	St											
	Play/Mute	K/St	K	St	K	St										L8	-
Mix/Tun • FX Send	Send Level Play/Mute	K/St K/St	K K	St St	K K	St St										L8	T
	PB Sensitivity	K/St	K	St	K	St										LO	
	Trk Octave Transpose	K/St	K	St	K	St											т
	Detune	K/St	K	St	ĸ	St											•
	Play/Mute	K/St	K	St	ĸ	St										L8	
	Scale	1	1		V	-								1		L14	
	Кеу	V	V		V											L14	
Mix/Tun • Sub-Scale	Quarter Tone															L14	G
	Detuned Notes	V	V		\checkmark												
	Scale Lock									V							
	FX (A-B)	V		V		V											
	FX (C-D)	V	V	,	V	,											
	Wet/Dry (A-B)	V	.,	V		V											~
Httorts • FX Solort	Wet/Dry (C-D) B to A	N	V	V	V	.1											G
	D to C	V		Ň	V	V											
	Mod. Track (A-B)	V V	V	1	Ň	V											
	Mod. Track (C-D)	V	V	v	1	v											
	Selected FX (A-B)	V	•	V	•												
	Selected FX (C-D)	1	V	•	V	,											G
	FX Parameters (A-B)	V		1		V											
	FX Parameters (C-D)	V			V												
	Int/Ext	K/St	К	St	К	St											т
Trk Ctrl • Mode	Туре	K/St	К	St	К	St											1
	Play/Mute	K/St	К	St	К	St										L8	
Trk Ctrl • Drum Volume	Drum Family Volume	K/St	К	St	К	St											Т
	Play/Mute	K/St	K	St	К	St										L8	
Irk (tri e Facy Edit	Sound Parameters	K/St	K	St	K	St											Т
	Play/Mute	K/St	K	St	K	St										L8	
	Damper Joystick X	K K	K K		K K												
Kbd Ens • Kbd Control	Joystick Y	K	K		K												
	Expression	K	K		K												
	Play/Mute	ĸ	ĸ		ĸ												
	Top/Btm Key	U	U		U												
Kbd Ens • Key/Vel Range	Top/Btm Velocity	U	U		U												
	Play/Mute	К	К		К												
	Ensemble		V		V												
	Note Velocity	V	N		V												
Kbd Ens • Ensemble	Tempo	V	V		V												
	Feedback	\checkmark			V												
	Ens Track Assign	U	U		U									L			
	Play/Mute Drum Mapping Var 1-4	K	К		K									I			
	Urum Manning Var 1-4			V V		V V											
				N		7										L13	G
	Kick and Snare Design.	N		2		N				, , , , , , , , , , , , , , , , , , , ,							
Style Ctrl • Drum/Fill	Kick and Snare Design. Fill Mode 1-3	V V		V													
Style Ctrl • Drum/Fill	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock	1				7				V						18	
Style Ctrl • Drum/Fill	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock Play/Mute			√ √ √		1				N						L8	-
Style Ctrl • Drum/Fill	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock	√ √		V						N						L8	Т
Style Ctrl • Drum/Fill Style Ctrl • Kbd Rng/Wrap	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock Play/Mute Keyboard Range On/Off Wrap Around Play/Mute	√ √ √		√ √		V				N						L8 	т
Style Ctrl • Drum/Fill Style Ctrl • Kbd Rng/Wrap	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock Play/Mute Keyboard Range On/Off Wrap Around Play/Mute Pad 1-4		P	√ √ √	P	V V				N							Т
Style Ctrl • Drum/Fill Style Ctrl • Kbd Rng/Wrap	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock Play/Mute Keyboard Range On/Off Wrap Around Play/Mute Pad 1-4 Volume	√ √ √ √ P P	Р	√ √ √	Р	V V				N 						L8 L3 L3	Т
Style Ctrl • Drum/Fill Style Ctrl • Kbd Rng/Wrap	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock Play/Mute Keyboard Range On/Off Wrap Around Play/Mute Pad 1-4 Volume Pan	√ √ √ √ P P P	P P	√ √ √	P P	V V				N						L8 L3 L3 L3	
Style Ctrl • Drum/Fill Style Ctrl • Kbd Rng/Wrap Pad/Switch • Pad	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock Play/Mute Keyboard Range On/Off Wrap Around Play/Mute Pad 1-4 Volume Pan C Send	√ √ √ √ P P P P P	P P P	√ √ √	P P P	V V				N						L8 L3 L3 L3 L3 L3	T
Style Ctrl • Drum/Fill Style Ctrl • Kbd Rng/Wrap Pad/Switch • Pad	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock Play/Mute Keyboard Range On/Off Wrap Around Play/Mute Pad 1-4 Volume Pan C Send D Send	√ √ √ √ P P P	P P	√ √ √	P P	V V										L8 L3 L3 L3	
Style Ctrl • Drum/Fill Style Ctrl • Kbd Rng/Wrap Pad/Switch • Pad	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock Play/Mute Keyboard Range On/Off Wrap Around Play/Mute Pad 1-4 Volume Pan C Send D Send Pad Lock	√ √ √ √ P P P P P	P P P	√ √ √	P P P P	V V				N 						L8 L3 L3 L3 L3 L3 L3	
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Style Ctrl • Drum/Fill Style Ctrl • Kbd Rng/Wrap Pad/Switch • Pad Pad/Switch • Assign. Sw.	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock Play/Mute Keyboard Range On/Off Wrap Around Play/Mute Pad 1-4 Volume Pan C Send D Send D Send Pad Lock Switch 1-4 Assign. Sw. Lock	√ √ √ √ P P P P P	P P P	√ √ √	P P P	V V										L8 L3 L3 L3 L3 L3 L3 L3 L3 L3	G
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Style Ctrl • Drum/Fill Style Ctrl • Kbd Rng/Wrap Pad/Switch • Pad Pad/Switch • Assign. Sw. Pref • Style Pref	Kick and Snare Design. Fill Mode 1-3 Fill Mode Lock Play/Mute Keyboard Range On/Off Wrap Around Play/Mute Pad 1-4 Volume Pan C Send D Send Pad Lock Switch 1-4 Assign. Sw. Lock Chord Recogn. Mode	√ √ √ √ P P P P P P V	P P P √	√ √ √	P P P √	V V										L8 L3 L3 L3 L3 L3 L3 L3 L4 L4	G

Page	Parameter	Perf	STS	Sty Perf	STS SB	SB	Ctu Ctu	Con Cto	Con Ctm		Global	V/D C+m		VD Det	Dels Ctm		Note
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	Pad Assignment	1			V					,						L3	
Main • Pad	Pad lock	· ·								1							G
	Split Point	1			1											L6	
	Chord Recogn. Mode				V											L11	
Main • Split	Split Point Lock									√							G
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SongBook Custom List Sequencer Mode Song Data Main Pref • Global Setup Sound Mode Sound Data Global Mode Gen Ctrl • Basic Gen Ctrl • Basic Gen Ctrl • Transp Ctrl Gen Ctrl • Scale Gen Ctrl • Scale Gen Ctrl • Lock Gen Ctrl • Interface Ctrl • Pedal/Switch	Song Selection Number Play/Mute Midi Setup Harmony Track Velocity Curve A. Touch Curve Master Tuning Reverb Offset Fade In Time Fade Out Time Acc/Rit Step Acc/Rit Curve Glide Time Transp applies to Sty/Kbd Transp applies to Seq 1/2 Transp applies to Se					V	/le, Pad a	ed into a	g parame Sg √ √ a Sound	Image: ster" on N	page 384						G G G G G G
SongBook Custom List Sequencer Mode Song Data Main Pref • Global Setup Sound Mode Sound Data Global Mode Gen Ctrl • Basic Gen Ctrl • Basic Gen Ctrl • Transp Ctrl Gen Ctrl • Scale Gen Ctrl • Lock Gen Ctrl • Lock Gen Ctrl • Interface Ctrl • Pedal/Switch Ctrl • Assignable Sliders Ctrl • EC5	Song Selection Number Play/Mute Midi Setup Harmony Track Velocity Curve A.Touch Curve Master Tuning Reverb Offset Fade In Time Fade Out Time Acc/Rit Step Acc/Rit Step Show PC Number Show Track Activity Auto Style Select Auto Perf/Sound Select Pedal/Footswitch Damper Polarity Pedal/Switch Polarity Assign. Sliders A1-8, B1-8 EC A-E Midi Setup Note to RX Noise Enable Clock Send					V	/le, Pad a	ed into a	g parame Sg √ √ a Sound	Image: ster" on Image: ster Ima							G G G G G G G G G
SongBook Custom List Sequencer Mode Song Data Main Pref • Global Setup Sound Mode Sound Data Global Mode Gen Ctrl • Basic Gen Ctrl • Basic Gen Ctrl • Scale Gen Ctrl • Scale Gen Ctrl • Lock Gen Ctrl • Interface Ctrl • Pedal/Switch	Song Selection Number Play/Mute Midi Setup Harmony Track Velocity Curve A.Touch Curve Master Tuning Reverb Offset Fade In Time Fade Out Time Acc/Rit Step Acc/Rit Step Show PC Number Show Track Activity Auto Style Select Auto Perf/Sound Select Pedal/Footswitch Damper Polarity Pedal/Switch Polarity Assign. Sliders A1-8, B1-8 EC A-E Midi Setup Note to RX Noise Enable Clock Send Clock Send					V	/le, Pad a	ed into a	g parame Sg √ √ a Sound	Image: ster " on Image: ster ster ster ster ster ster ster ster							G G G G G G G G G
SongBook Custom List Sequencer Mode Song Data Main Pref • Global Setup Sound Mode Sound Data Global Mode Gen Ctrl • Basic Gen Ctrl • Basic Gen Ctrl • Transp Ctrl Gen Ctrl • Scale Gen Ctrl • Lock Gen Ctrl • Lock Gen Ctrl • Interface Ctrl • Pedal/Switch Ctrl • Assignable Sliders Ctrl • EC5	Song Selection Number Play/Mute Midi Setup Harmony Track Velocity Curve A.Touch Curve Master Tuning Reverb Offset Fade Out Time Acc/Rit Step Acc/Rit Step Acc/Rit Step Acc/Rit Step Acc/Rit Step Acc/Rit Step Acc/Rit Step Carbon Select Transp applies to Sty/Kbd Transp applies to S					V	/le, Pad a	ed into a	g parame Sg √ √ a Sound	Image: ster " on Image: ster ster ster ster ster ster ster ster	artup artup						G G G G G G G G G
SongBook Custom List Sequencer Mode Song Data Main Pref • Global Setup Sound Mode Sound Data Global Mode Gen Ctrl • Basic Gen Ctrl • Basic Gen Ctrl • Transp Ctrl Gen Ctrl • Scale Gen Ctrl • Lock Gen Ctrl • Lock Gen Ctrl • Interface Ctrl • Pedal/Switch Ctrl • Assignable Sliders Ctrl • EC5	Song Selection Number Play/Mute Midi Setup Harmony Track Velocity Curve A.Touch Curve Master Tuning Reverb Offset Fade In Time Fade Out Time Acc/Rit Step Acc/Rit Step Show PC Number Show Track Activity Auto Style Select Auto Perf/Sound Select Pedal/Footswitch Damper Polarity Pedal/Switch Polarity Assign. Sliders A1-8, B1-8 EC A-E Midi Setup Note to RX Noise Enable Clock Send Clock Send					V	/le, Pad a	ed into a	g parame Sg √ √ a Sound	Image: ster " on Image: ster ster ster ster ster ster ster ster							G G G G G G G G G

MIDI • Midi In Control MIDI • Midi In Ch.	Midi In Oct Transp Midi In Mute/Unmute Chord 1 Midi Channel Chord 2 Midi Channel Upper Octave Transp			Sty Perf			1		1	1 √							
MIDI • Midi In Control MIDI • Midi In Ch.	Chord 1 Midi Channel Chord 2 Midi Channel	<u> </u>								1 j							
MIDI • Midi In Control MIDI • Midi In Ch.	Chord 2 Midi Channel									1 V							ł
MIDI • Midi In Control MIDI • Midi In Ch.										V							ł
MIDI • Midi in Control										, v							
MIDI • Midi In Ch.	Lower Octave Transp									V	_						G
MIDI • Midi In Ch.	Midi In Velocity Value									1							
MIDI • Midi In Ch.	VP Midi In Channel									V							1
MIDI • Midi In Ch.	VP Oct Transp In									V							1
	VP In Note Range H/L									V							
	Channels									V							т
	Channels									V							
	Midi In Filters									V							G
	Midi Out Filters								,	V							
	Tracks Tracks								V								T
	Tracks								√ √								T T
	Drum Output								V								-
	Drum Category								V								G
	VP Out								V								G
	Metronome Mode								V								
	Metronome Volume								V								ł
	Click Out					-			v								G
	SPDIF On/Off								V								1
	Speaker On/Off								V								1
	MP3 Max Volume								V								G
	CD Max Volume								V								
	VP Setup											V					
	Vibrato Mode											N					l
VP Sotup • Sotup	Vibrato RX Enable											V					G
	Octave Transpose	L										V					-
	Pitch Bend Range Damper Mode											1					ł
	Mic In Low Cut											N V					
	Delay Compensation											V V					4
	Pan											1					G
	Level											1					ł
	Dyn Assign											V					
	EQ Assign											1					ł
	Dyn-Threshold											1					ł
	Dyn-Ratio											V					1
	Dyn-Gate																1
V/D Cature & Dure /EQ	EQ-Low Gain											V					
VP Setup • Dyn/EQ	EQ-Low Freq																G
	EQ-Mid Gain											V					1
	EQ-Mid Freq											\checkmark]
	EQ-Mid Q											V					
	EQ-High Gain											V					ļ
	EQ-High Freq											V	,				
	Talk On/Off												V				4
	Auto Talk Ld to Rev												√ √				ł
	FX Lev												V V				ł
	Master Vol. Attenuation												V				ł
	Rev-Type												,				{
-	Rev-PreDelay												, v				1 _
	Rev-Decay												1				G
	Rev-Low Color												, V				1
	Rev-High Color												1				1
	Thicken On/Off												V				1
	Thicken-Detune												V]
	Thicken-Spread												V]
	Level												V				
	VP Preset	Ń	V		V												
	Harmony/Modeling Sw.													N			ł
	Lead On/Off													N			ł
	V1-V4 On/Off Bitch On/Off	L								<u> </u>				N			-
	Pitch On/Off Thicken On/Off													V V			G
	Thicken On/Off Harm./Model. On/Off													N N			ł
	Effects On/Off	<u> </u>	-											N V			{
	VP Preset Lock	-				-			1					, v			ł
	Thk-On/Off								· ·					1			
	Thk-Detune	-												V			ł
	Thk-Spread					-				-				V			ł
	Thk-Level	<u> </u>												v.			1
	Ptch-On/Off	<u> </u>	-											V			1
	Ptch-Root					-								1			G
	Ptch-Scale Type		-											1			1
	Ptch-Attack													V			1
	Ptch-Amount													V			1
	Ptch-Window									1				V			1
	Ptch-Custom Scale								1					V	1		1

Page	Parameter	Porf	стс	Sty Perf	CTC CR	CR					Global					 Note
гауе		Fen	313	Styren	313 36	30	Sty Stp	Sng Stp	Seq Stp	Glb Stp	Mid Stp	VP Stp	VP TIk	VP Pst	Dsk Stp	Note
	Resonance / Amount													V		
	Spectral / Amount													V		
	Growl / Amount													V		
VP Preset • V. Modeling														V		G
	Vibrato / Amount													V		
	Level													V		
	Pan													V		
	On/Off													V		
	Latch On/Off													V		
	Harmony Mode													V		
	Root													V		
	Туре													V		
	Human. Style													\checkmark		
	Amount															
VP Preset • Harmony	Tuning													N		G
	Portamento													V		
	PB Assign													V		1
	Smooth													V		1
	Harm Note Input Source													V		1
	Attack													V		1
	Release													V		1
	Level													V		1
	Voice On/Off													V		
	Gender													V		1
	Voicing													V		1
	Vibrato Style													V		1
VP Preset • Harm. Voices	Vibrato Amount													V		G
	Level													V		1
	Pan													V		1
	CV Map-Note In													V		1
	CV Map-Note Out													V		1
	Lead to Rev													V		
	Harm/Model to Rev													V		1
	Harm/Model to Dly													V		1
	Lead to Dly													V		1
	Dly to Rev													V		1
	Rev/Dly Balance													V		1
	FX Level													Ń		1
	Rev-Type													, v		1
	Rev-PreDelay	-												,		1
VP Preset • Effects	Rev-Decay													, V		G
	Rev-Low Color													V		+
	Rev-High Color													V		+
	Dly-Type													V		-
	Dly-Delay													V		-
	Dly-Feedback													V		-
	Dly-Source													V V		-
	Dly-R(atio)													V		-
														1		4
	Dly-Hi Freq Damp															
VP Preset • Controls	Cnt.Ctl A-D													V		G
	Sw.Ctl A-D System													V		
										V						-
Video Interface	Characters									V						 G
	Colors Position X/Y									V						4
										V						
Touch Screen Calib	Calibration								ĸeserved	d memor	y area					
Disk Mode										-					,	
	Global Protect														V	
	Hard Disk Protect														V	
Preferences	Factory Styles/Pad Protect								Set to "	On" at st	tartup					
	PCM Autoload														V	
	Hide Unknown Files														V	
	HD Sleep Time														V	

List of abbreviations used in the above table

G = General parameters

SG = Style tracks, globally

- T = Selected tracks
- U = Upper tracks only
- K = Keyboard tracks only Rt = Realtime tracks only
- St = Style tracks only
- Sg = Song tracks only
- P = Pad tracks only

L[n] = Subject to the corresponding Lock (see diagram)



Style, Pad and Song parameter

The following table shows the parameters you can save into the Style when selecting the "Write Style" command from the Style Record mode page menu; into the Pad when selecting the "Write Pad" command from the Pad Record mode page menu; and into the Song when selecting the "Save Song" command from the Sequencer mode page menu.

Parameter	Style			Pad		Song		
	Header	Tracks	Master Track	Header	Track	Header	Tracks	Master Track
Volume (GM Master Volume) ^(a)						√		V
Тетро			1	Uses Arranger/Sequencer's Tempo		~		1
Meter (Time Signature)	Ń			\checkmark		1		V
Sounds ^(b)	√			\checkmark		√	√	
Note On/Off		V			√		√	
Pitch Bend		V			√		√	
After Touch							V	
Control Change ^(c)		\checkmark			√		V	
Quarter Tone ^(a)								√
Quarter Tone Reset ^(a)								V
Pad Sync				1				
Pad Type				1				
Chord Variation Length	V			V				
Original Key/Chord	Ń			1				
NTT	V			V				
Wrap Around				V				
Expression	Ń	V		V	√ √	N	√	
Keyboard Range	Ń			V				
Chord Variation Table	N			V				
Track Type (Drum/Perc/Bass/Acc)	Ń			V				
Trigger Mode	N			V				
Tension	V			V				
Play/Mute status ^(a)	\checkmark			\checkmark		√		
Master Transpose ^(a)						√		
Volume						N	√	
Pan						N	√ √	
FX Block ^(a)						√		
FX Send						1	V	
Detune						V	1	
Scale ^(a)						√		1
Key						√		\checkmark
Note						√		V
Detune						√		V
Scale Yes/No ^(a)						√		
Pitch Bend Range						1	V	
FX Select (A, B, C, D) ^(a)						√		√
Modulation Track ^(a)						√		
FX Feedback Send (B>A or D>C) ^(a)						V		1
FX Parameters (A, B, C, D)						, v		
						, i		

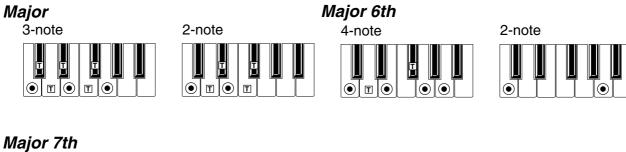
(a). Saved as SysEx data.

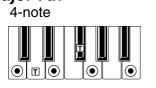
(b). For these Sounds to be used in a Style, the "Original Style Sounds" parameter must be checked in the Style Play mode. See "Original Style Sounds" on page 78.

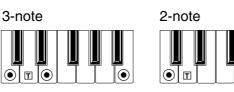
(c). Not all Control Change messages are allowed in Styles/Pads. Please see "List of recorded events" on page 101 for more information.

Recognized chords

The following pages show the most important chords recognized by the Pa1X, when the selected Chord Recognition mode is Fingered 2 (see "Chord Recognition Mode" on page 93). Recognized chords may vary with a different Chord Recognition mode.

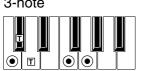


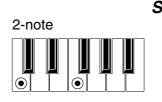


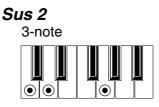




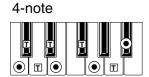
Sus 4 3-note

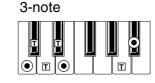


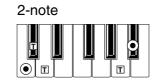




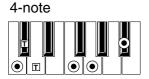
Dominant 7th

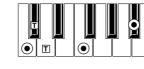






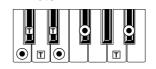
Dominant 7th Sus 4



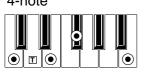


3-note

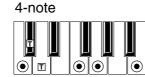
Dominant 7th 5 4-note



Major 7th 5 4-note

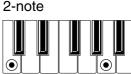


Major 7th Sus 4

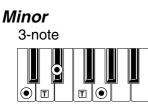


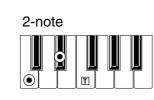
 (\bullet) = constituent notes of the chord

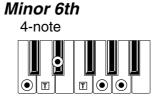
 \mathbf{T} = can be used as tension











Minor-Major 7th

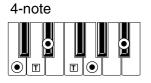
9

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4-note

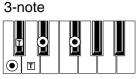
 \odot Т

Minor 7th



3-note 0 0 \odot Τ

Diminished



Diminished Major 7th						
4-note						

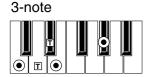


Minor 7th 5





Augmented









2-note







 (\bullet) = constituent notes of the chord



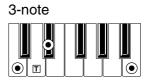
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Augmented Major 7th

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 \mathbf{T} = can be used as tension



Installing the hard disk (Pa1X only)

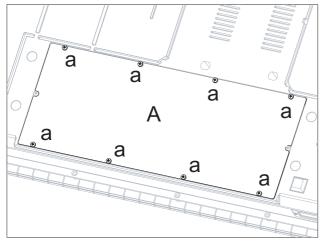
You can install a 2.5" ATA hard disk drive into your Pa1X, for quick and easy data storage and retrieval. Please contact your Korg dealer for more information. Before you begin, turn the instrument off, and disconnect the power cable.

Warning: Installation of the hard disk drive is done as the user's own risk. Korg will assume no responsibility for any damage or injury resulting from its improper installation or use.

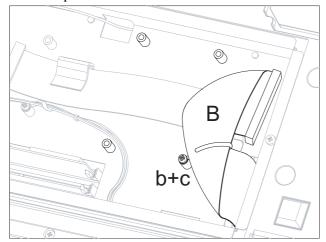
Note: To install the hard disk, you will need a cross-point screwdriver.

1. Turn the instrument upside down, and remove the eight screws (a), to open the cover (A) and gain access to the option compartment.

Note: Block any possible access to the inside of the instrument during installation to prevent any items from falling inside. In the event something does fall into the instrument, please immediately contact your nearest Service Center.

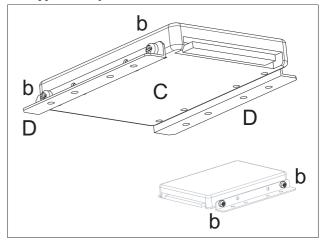


As you face the option compartment opening, locate the area dedicated to the hard disk, i.e., the one with the four small vertical spacers and the cable (B). Unscrew the screw (b) and remove the clip (c), securing the cable (B) to one of the spacers. Save the screw and the clip, you will need them to complete the hard disk installation.

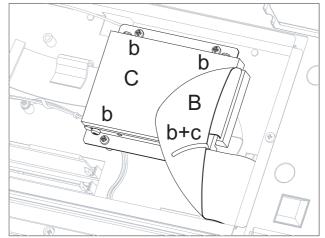


3. Connect the two mounting brackets (D) to the hard disk (C), by using four of the M3x6 screws (b). (Both the

mounting brackets and the M3x6 screws should have been supplied with your Pa1X).



4. Place the assembled hard disk unit over the four spacers in the option compartment, as shown in the diagram. Secure the hard disk unit to the spacers using the remaining four M3x6 screws (b). Be sure to fix the clip (c), previously removed, to the original spacer, as shown in the diagram. Connect the data cable (B) to the hard disk (C), then secure the cable (B) with the clip (c).

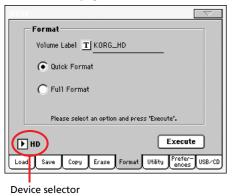


5. Close and secure the compartment cover by reversing the procedure described in step 1.

Formatting the hard disk

When the installation is finished, reconnect the power cable and turn the instrument on. You must format the hard disk before it can be used.

- 1. Press DISK to access the Disk edit mode.
- 2. Select the "Format" page.

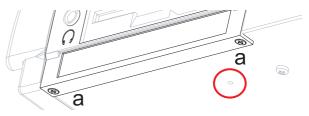


- 3. Use the Device selector to select the hard disk ("HD").
- 4. Press the **T** (Text Edit) button in the display to assign a label (name) to the hard disk.
- **5.** Select the Full Format option, then press the Execute button, and follow the instructions that appear in the display.

Installing the Korg CDRW-1 Drive

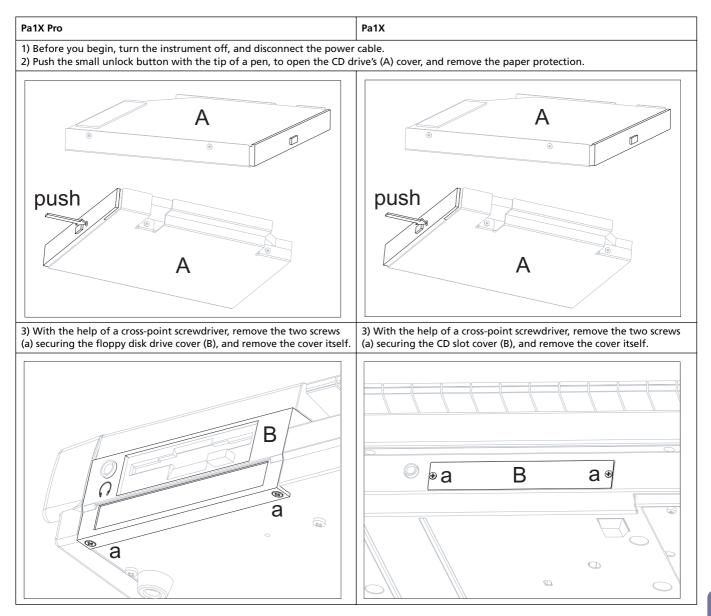
Please note: Follow these instructions if your Pa1X (a) does not include a small screw under the CD-RW slot (shown in the diagram), and (b) does not include a mounting tray inside the slot itself.

If the above is not true, please follow the instructions you can down-load from our website (<u>www.korgpa.com</u>).



A Korg CDRW-1 CD player/writer can be installed into your Pa1X. Installation will require a "+" (cross-point) screwdriver. Please contact your Korg dealer for more information on how to obtain this option.

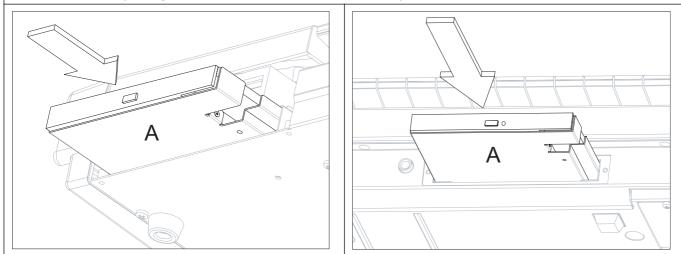
Warning: Installation of the CD drive is done at the user's own risk. Korg will assume no responsibility for any damage or injury resulting from improper installation or use.



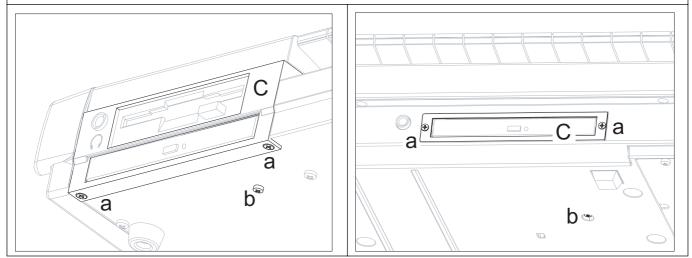
Pa1X Pro

Pa1X

4) Slide the CD drive (A) into the instrument. Push it all the way in, to make sure that the CD drive mounts to the connector inside the Pa1X (two 'clicks' should be felt on your fingers when the connector on the CD drive is correctly inserted).



5) Turn the instrument on. Go to the Disk mode, and select the CD device by using the Device pop-up on the lower left corner of the Load, Save, Copy, and Erase pages. If it works, go on with the next step to complete installation.
6) Screw screw (b) to secure the CD drive in place. Apply the cover (C) supplied with the Pa1X, and secure it with the two previously extracted screws (a).



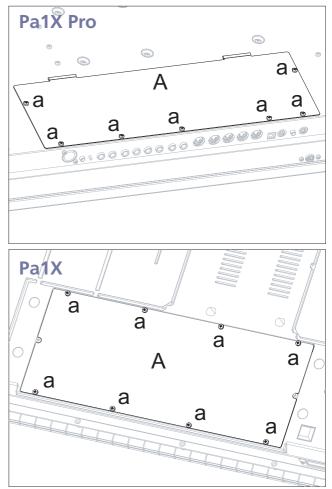
We suggest saving all removed components in a safe place for future use.

Installing additional RAM

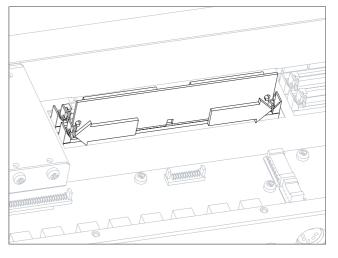
Pa1X comes equipped with 16MB of RAM already installed, which can be used for storing samples and Song editing. You can install an additional 16MB of RAM in the form of a single 72-pin SIMM module (for a list of tested SIMMs, see <u>www.korgpa.com</u>). Please contact your Korg dealer for more information.

- 1. Before you begin, turn the instrument off, and disconnect the power cable.
- 2. Turn the instrument upside down, and remove the screws (a), to open the cover (A) and gain access to the option compartment.

Note: Block any possible access to the inside of the instrument during installation to prevent any items from falling inside. In the event something does fall into the instrument, please immediately contact your nearest Service Center.

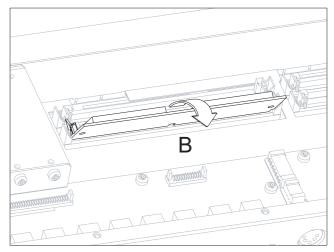


- **3.** As you face the option compartment opening, locate the two RAM slots. A 16MB SIMM module is already present in one of the slots.
- 4. Lightly push out on the two securing clamps (one on each end).

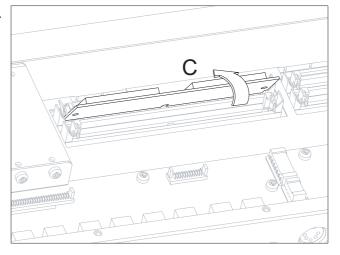


392 | Installing additional RAM

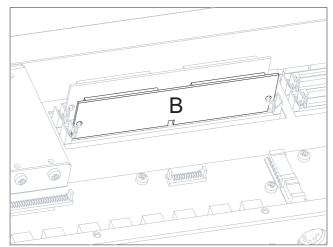
5. Remove the existing module (B), by gently rotating it forward as shown in the diagram.



6. Insert the new SIMM module (C) into the slot that was originally empty, as shown in the diagram. Line up the lower side of the module with the slot base, then rotate the module up, and delicately push until it is firmly seated in place. Be sure the module is correctly inserted. If not, extract it and repeat the operation.



- 7. Now re-insert the SIMM module (B) that you removed in step 5, using the same method as used with the new module (C).
- 8. Close and secure the compartment cover by reversing the operations seen on step 2.

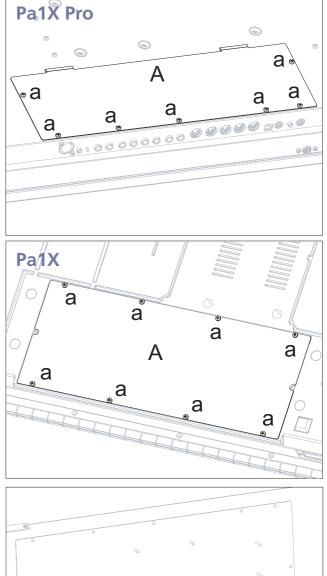


Installing ROM expansions

Pa1X can be fitted with up to two dedicated Sound expansion boards. Please, check on <u>www.korgpa.com</u>, or contact your Korg dealer for more information on the available options.

- 1. Before you begin, turn the instrument off, and disconnect the power cable.
- 2. Turn the instrument upside down, and remove the screws (a), to open the cover (A) and gain access to the option compartment.

Note: Block any possible access to the inside of the instrument during installation to prevent any items from falling inside. In the event something does fall into the instrument, please immediately contact your nearest Service Center.

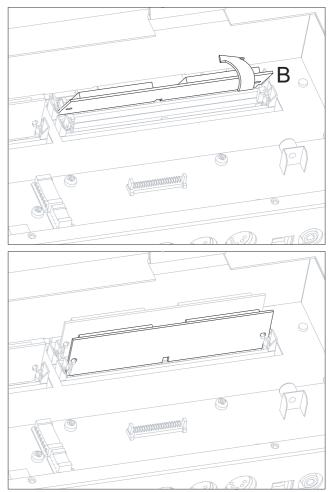


3. As you face the option compartment opening, locate the two ROM slots.

4. Insert the first ROM expansion module (B) – the only one, if it is the only one you purchased – in the slot farther from you, as shown in the diagram. Line up the lower side of the module with the slot base, then rotate the module up, and delicately push until it is firmly seated in place. Be sure the module is correctly inserted. If not, extract it and repeat the operation.

Note: You could also install the module in the other slot, but this way installing a second module later will be easier.

- **5.** If you purchased a second ROM sound module (C), install it by following the same procedure seen for the first module (B).
- 6. Close and secure the compartment cover by reversing the operations seen on step 2.



Installing the Video Interface (VIF3)

You can install a Korg VIF3 Video Interface into your Pa1X or Pa1X Pro. This interface will let you connect a video monitor or video projector, to read lyrics on an external device. The card can be installed by the user. Korg is not responsible for any damage or injury caused by incorrect installation of this card by unauthorized personnel.

NTSC, PAL, SECAM

The following instruction refer both to the VIF3-PAL and VIF3-NTSC versions of the board. When connecting the VIF3-PAL to a SECAM-compliant TV, the image will be shown in black and white.

Precautions

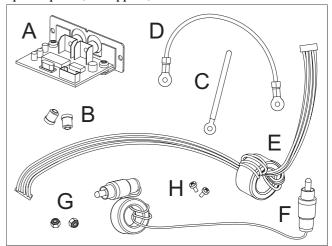
• Installation of the card is done at the user's own risk. Korg will assume no responsibility for any damage or injury resulting from its improper installation or use.

• Be sure to disconnect the instrument from the AC plug, before opening it.

• To prevent your body's static electricity from damaging the board's components, touch an unpainted metallic component before proceeding with the installation.

Part listing

Before beginning with the installation, please be sure all the following parts are included with your kit. Some parts are needed only when installing the board on a particular model, but not on others. In addition, you will need a cross-point screwdriver and a pair of pliers (not supplied).



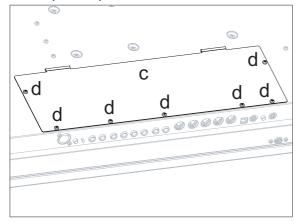
	Part name	Pa1X Pro	Pa1X	
Α	Video card	√ √		× 1
В	Plastic spacers	1		× 2
С	Cable holder clip	√		× 1
D	Ground cable	(not needed)		× 1
E	Video card cable	(not needed)		× 1
F	Video cable	(not needed)		× 1
G	Nuts	V		× 2
н	2.9 x 9.5 self-threading screw	(not needed)		× 2

Note: The checkmark means the part is needed for the corresponding instrument. Some components are only for the Pa80 and Pa60, therefore are not needed on the Pa1X or Pa1X Pro.

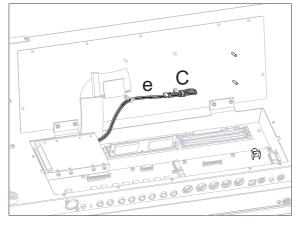
Installation on the Pa1X Pro

1. Turn the instrument upside down, and remove the seven screws (d), to open the cover (c) and gain access to the option compartment.

Note: Block any possible access to the inside of the instrument during installation to prevent any items from falling inside. In the event something does fall into the instrument, please immediately contact your nearest Service Center.

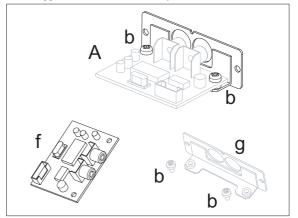


2. As you face the option compartment opening, locate the area reserved for the video interface, i.e., the one with the two small vertical spacers and the cable (e), secured by two clips. Unfasten the cable (e) from the clip (C), and rewire the clip around the unfastened cable.

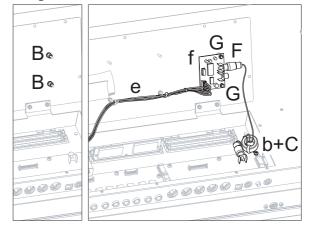


3. Examine the video interface (A) included with the kit. Note how the IC board (f) is joined to the support (g) by means of the two screws (b). Unscrew the two screws (b) to separate them. You will not need the removed screws (b) and

support (g) for the installation on the Pa1X Pro, nevertheless we suggest to save them for any future use.



4. Insert the two plastic spacers (B) into the corresponding screws on the option compartment cover, as shown in the diagram. Secure the IC board (f) to the two spacers (B), using the two self-locking nuts (G). Connect the terminal lug of the cable (e) and the terminal lug without a ring (F) to the corresponding connectors on the IC board. Unscrew the screw (b) from the connector board in the option compartment, then re-insert it after securing to it the clip (C) included with the accessory kit. Use the clip to lock the ring of the free cable terminal lug (F). Connect this terminal to the RCA connector on the connector board, as shown in the diagram.

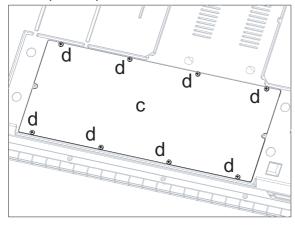


5. Close and secure the compartment cover by reversing the procedure described in step 1.

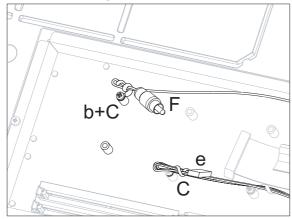
Installation on the Pa1X

1. Turn the instrument upside down, and remove the eight screws (d), to open the cover (c) and gain access to the option compartment.

Note: Block any possible access to the inside of the instrument during installation to prevent any items from falling inside. In the event something does fall into the instrument, please immediately contact your nearest Service Center.

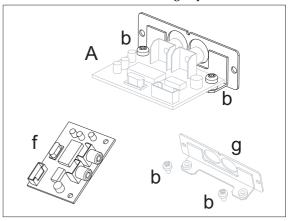


2. As you face the option compartment opening, locate the area reserved for the video interface, i.e., the one with the two small vertical spacers, the cable (e), secured by two clips, and the cable (F), secured by the clip (C). Note how the clip (C) is secured to one of the two vertical spacers by means of the screw (b). Unscrew the screw (b) and remove the clip (C). Then unfasten the cable (e) from the clip (C), as shown in the diagram. Save the screw and the clip, you will need them to complete the video interface installation.

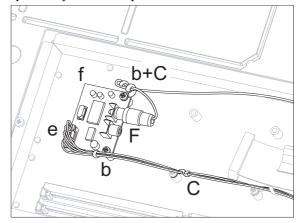


3. Note how the IC board (f) is joined to the support (g) by means of the two screws (b). Unscrew the two screws (b) to separate them. You will not need the removed support (g) for the installation on the Pa1X, nevertheless we suggest to

save them for any future use. On the contrary, the removed screws will be needed in the following step.



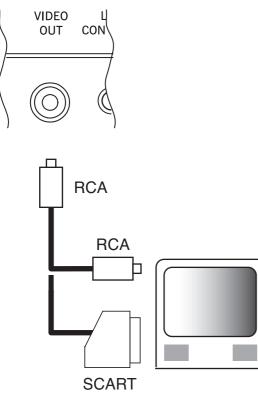
4. Secure the IC board (f) to the two vertical spacers using the two screws (b), previously removed. Please remember to re-insert the clip (C) at its original position. Connect the terminal lug of the cable (F) to the corresponding connector on the IC board. Secure the cable to the clip (C). Finally, connect the cable (e) to the IC board, and secure it using the previously loosened clip (C).



5. Close and secure the compartment cover by reversing the procedure described in step 1.

Connections and setup

1. Connect the instrument's video output to the video input of the television set. Depending on the type of television set, you can use a cable of the type "RCA-to-RCA" (if the television set is equipped with a Video Composite input), or "RCA-to-SCART" (if the television set is equipped with a SCART connector). You can buy the needed cables at a store that sells television equipment.



- 2. Turn the instrument on, and press the GLOBAL button to gain access to the Global edit mode. Go to the "Video Interface: Video Out" page, and select the video standard (PAL or NTSC) depending to the installed video board (VIF3-PAL or VIF3-NTSC).
- 3. Select the "Write Global-Global Setup" command from the page menu to save the settings in memory. The Write Global-Global Setup dialog box will appear. Press OK to confirm.
- **4.** Turn the television set on, and tune it on the AV1 or AV2 input.
- 5. In the same page of the Global, use the Colors parameter to choose the preferred set of colors for the lyrics and the background.

Installing the MP3 Board (EXBP-MP3)

You can install a Korg EXBP-MP3 board into your Pa1X or Pa1X Pro. This user-installable card will let your Pa1X and Pa1X Pro play and record MP3 files, allowing for easy music data exchange with any personal computer or stand-alone MP3 player.

Please note Korg is not responsible for any damage or injury caused by incorrect installation of this card by unauthorized personnel.

Precautions

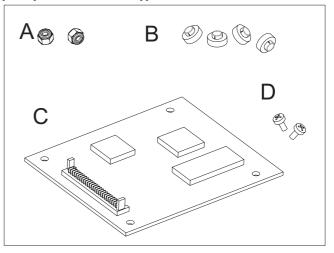
 Installation of the card is done at the user's own risk. Korg will assume no responsibility for any damage or injury resulting from its improper installation or use.

• Be sure to disconnect the instrument from the AC plug, before opening it.

• To prevent your body's static electricity from damaging the board's components, touch an unpainted metallic component before proceeding with the installation.

Part listing

Before beginning with the installation, please be sure all the following parts are included with your kit. Some parts are needed only when installing the board on a particular model, but not on others. In addition, you will need a cross-point screwdriver (Pa1X/Pa1X Pro) and a 5.5mm hexagon wrench or a pair of pliers (Pa1X Pro) (not supplied).



	Part name	Pa1X Pro	Pa1X	
Α	Self-locking nuts	\checkmark		× 2
В	Plastic spacers	\checkmark		×4
С	MP3 card	\checkmark	\checkmark	× 1
D	M3×6 screws		\checkmark	× 2

Note: The checkmark means the part is needed for the corresponding instrument.

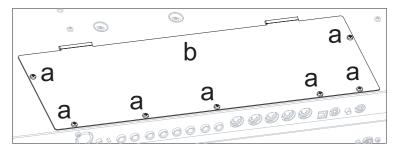
Installation

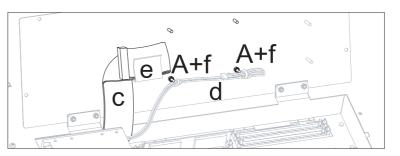
Pa1X Pro

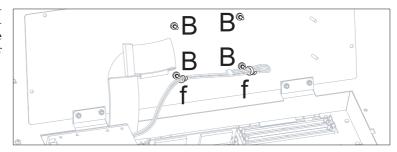
1. Turn the instrument upside down, and remove the seven screws (a), to open the cover (b) and gain access to the option compartment.

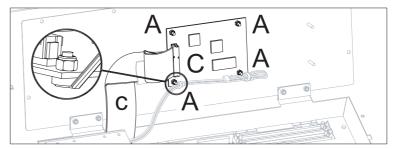
Note: Block any possible access to the inside of the instrument during installation to prevent any items from falling inside. In the event something does fall into the instrument, please immediately contact your nearest Service Center.

- As you face the option compartment opening, locate the area reserved for the MP3 board, i.e., the one with the four small vertical columns, the MP3 audio cable (c) and the video cable (d). Please note how the video cable (d) is fastened by two clamps (f) to two columns, by means of two self-locking nuts (A). Remove both nuts (A), taking care not to remove the two clamps from their position, and unfasten the audio cable (c) from the clamp (e).
- **3.** Insert the four plastic spacers (B) into the corresponding columns on the option compartment cover, as shown in the diagram. Please be sure to lay the flat size of the spacers onto the option compartment cover, and to keep both clamps (f) under the spacers (B), as shown in the following diagram.
- 4. Insert the MP3 board (C) over the four spacers, with the components on the upper side (as shown in the diagram). Secure it to the spacers by using the four self-locking nuts (A). Connect the terminal lug of the cable (c) to the corresponding connector on the MP3 board, by folding the cable as shown in the diagram.
- **5.** Close and secure the compartment cover by reversing the procedure described in step 1.





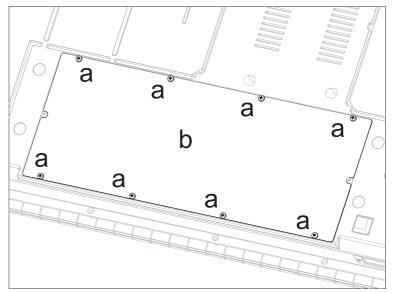




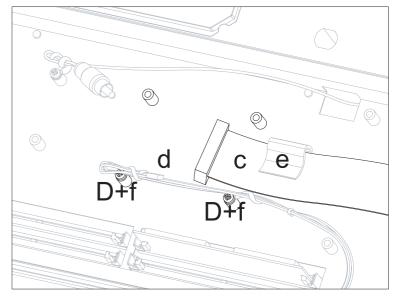
Pa1X

1. Turn the instrument upside down, and remove the eight screws (a), to open the cover (b) and gain access to the option compartment.

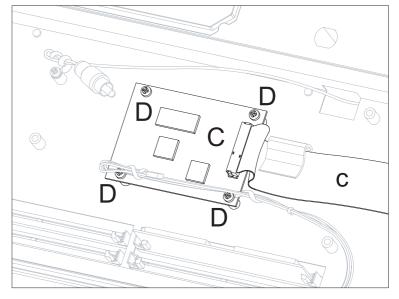
Note: Block any possible access to the inside of the instrument (for example, the openings of the nearby RAM expansion slots) during installation to prevent any items from falling inside. In the event something does fall into the instrument, please immediately contact your nearest Service Center.



As you face the option compartment opening, locate the area reserved for the MP3 board, i.e., the one with the four small vertical spacers, the MP3 audio cable (c) and the video cable (d). Please note how the video cable (d) is fastened by two clamps (f) to two of the spacers, by means of two M3 screws (D). Remove both screws (D), taking care not to remove the two clamps from their position, and unfasten the audio cable (c) from the clamp (e).



- **3.** Insert the MP3 board (C) over the four spacers, with the components on the upper side (as shown in the diagram). Secure it to the spacers by using the four M3 screws (D). Connect the terminal lug of the cable (c) to the corresponding connector on the MP3 board, by folding the cable as shown in the diagram.
- 4. Close and secure the compartment cover by reversing the procedure described in step 1.



Recording an MP3

If your Pa1X is fitted with the optional MP3 Board (EXBP-MP3) and a hard disk (*optional on the Pa1X with speakers*), you can record your performance as an MP3 file.

Note: You cannot enter MP3 Record mode while in Sequencer or Disk mode.

• All you play on the keyboard, the Styles and the Standard MIDI Files performed by the sequencer will be recorded. Audio entering the Audio Input 1 (microphone input, or mono line-level input), and harmony voices generated by the Voice Processor will be recorded as well.

• Playback of MP3 files and Audio CD tracks will not be recorded.

To enter recording, keep the SHIFT button pressed, and press the REC button. The following dialog box will appear.



Select the preferred MP3 audio quality option, by means of the Quality pop-up menu. The higher the sound quality, the larger the MP3 file that will be generated.

When done, press the Rec button in the display to start recording. The Rec button changes to Stop, and can be pressed again to stop recording. During recording, a big red 'R' will flash in the display.

Disk free space:	7096600 KBytes
(Stop

If you like, you can press the EXIT button to exit this dialog box. To enter it again, and see the file length or stop recording, press SHIFT+REC again.

During recording, you can use this dialog box to see the Recording time, file length, and the remaining space on disk. Maximum recording time depends on the available space on the hard disk.

After pressing Stop, recording will stop, and the following dialog box will appear:

MP3 Record		
Name: <u>T</u> Take 1	_	
Path: HD:	Browse	
Cancel	Save	

Press the **T** (Text Edit) button to assign a name to the MP3 File. Press the Browse button to select a device and directory where to save the file. Press the Save button to save the file. After saving, you can listen to the MP3 file in Song Play mode, as you did with any other Song.

The MP3 file can also be moved to a personal computer for further editing, via the USB interface.

Notes

Operating system version

To use the EXBP-MP3, your Pa1X must be fitted with Operating System 1.51 or higher.

Audio outputs

- After installing the EXBP-MP3 board, the audio output level (both on the OUTPUT connectors and the internal speakers) is increased of about 3dB. Readjust the master volume accordingly.
- Audio generated by the MP3 board is only output on the Left+Right analog outputs. It cannot be routed to the digital output.

Playback

- MP3 files recorded with lower sampling rates may not sound very good. This is an unavoidable problem with MP3 files.
- You can assign an MP3 file to both sequencers, but starting one stops the other (if it is playing).
- When reading MP3 files from a data CD, and the CD has been automatically paused for having been inactive for some time, starting playback may require some seconds, because the CD has to start spinning again.

Recording

- You can record as an MP3 file everything you play with the Pa1X, including your vocals (in other words, you can record your whole performance). However, you cannot record MP3 files or convert Audio CD Tracks.
- You can listen to Audio CD tracks during MP3 recording, but they will not be recorded.

Hard disk

- To record MP3 files, your Pa1X must be fitted with a hard disk.
- It is not advisable to fill the hard disk too much during recording. Filling the hard disk may cause troubles with the recorded file.
- Regular care is recommended with your hard disk. Defragmenting and repairing can be made with any PC utility, while the Pa1X is connected via USB.

Shortcuts

You can keep the SHIFT button pressed, and press another button on the control panel to directly jump to an edit page. Here is the list of "shortcuts".

Shift +	Functions			
Any operating modes				
Dial	Tempo Change			
Scroll Arrows, <i>or</i> Up/Down	When a list of Songs or SongBook entries is shown: Next/Previous alphabetical section. It also works in Disk mode, when the Name sorting is selected.			
Sound	Sends the Sound assigned to the selected track to the Sound mode			
Global	Selects the Setup/General Controls page, MIDI section, of the Global mode. This is a quick way to jump to MIDI editing pages.			
Disk	Selects the Preferences page of the Disk mode			
Start/Stop	Panic			
Slider Mode	Selects the Assignable Sliders page, Control- lers section, of the Global mode			
Fade In/Out	Selects the Fade In/Out parameter in the Basic page, Preferences section, of the Global mode			
Single Touch	Changes the status of the Variation/STS Link parameter in the Style Setup page, Prefer- ences section, of the Style Play mode. The page contAining the parameter is not selected			
Synchro (either)	Selects the MIDI Setup parameter in the Setup/General Controls page, MIDI section, of the Global mode			
Tempo Lock	Selects the Lock page, General Controls sec- tion, of the Global mode			
Display Hold	Selects the Interface page, General Controls section, of the Global mode			
Transpose (either)	Selects the Transpose Control page, General Controls section, of the Global mode			
Style Play mode				
Style Play	Selects the Style Setup page (Preferences sec- tion)			
Memory	Selects the Style Preferences page (Preferences section)			
Var or Fill	Selects the corresponding Style Element in the Drum/Fill page (Style Controls section)			
Chord Scanning (either)	Selects the Chord Recognition parameter in the Split panel, Main Page			

Shift +	Functions	
Keyboard Mode (either)	Selects the Key Velocity page (Keyboard/ Ensemble section)	
Ensemble	Selects the Ensemble Type parameter in the Ensemble page, (Keyboard/Ensemble section)	
Pad (any)	Selects the Pad page (Pad/Assignable Switches section)	
Assignable Switch (any)	Selects the Switch page (Pad/Assignable Switches section)	
Upper Octave (either)	Selects the Tuning page (Mixer/Tuning sec- tion)	
Song Play mode		
Song Play	Selects the General Control page (Preferences section)	
Play/Stop–Seq 1 or 2	Sync Start of either sequencers	
>>	Play the next Audio CD track	
<<	Play the previous Audio CD track	
Upper Octave (either)	Selects the Tuning page (Mixer/Tuning sec- tion)	
Keyboard Mode (either)	Selects the Key Velocity page (Keyboard/ Ensemble section)	
Pad (any)	Selects the Pad page (Pad/Assignable Switches section)	
Assignable Switch (any)	Selects the Switch page (Pad/Assignable Switches section)	
JukeBox mode		
>>	Play the next Song in the JukeBox list	
<<	Play the previous Song in the JukeBox list	
Sequencer mode		
Sequencer	Selects the Sequencer Setup page (Preferences section)	
Upper Octave (either)	Selects the Tuning page (Mixer/Tuning sec- tion)	

Another available shortcut is the following one, not requiring the SHIFT button being pressed.

Style Play mode		
Up/Down (together)	Original Tempo	

Troubleshooting

Problem	Solution	Page
General problems		
Power does not turn on	Make sure that (1) the power cable is plugged into the outlet, (2) the cable is plugged into the connector on the back of the instrument, (3) and is not damaged, (4) there are no problems with the mains.	
	Is the power switch turned ON?	
	If the power still does not turn on, contact your dealer or the nearest KORG Service Center.	
No sound	Is a jack connected to the HEADPHONES connector? This would disable the internal speakers.	17
	Check the connections to your amp or mixer.	17
	Make sure that all the components of the amplifying system are turned on.	
	Is the MASTER VOLUME slider of the Pa1X set to a position other than "0"?	17
	Is the Local parameter set to Off? Turn it On.	231
	Is the Speaker parameter set to Off? Turn it On.	235
	Is the Attack parameter value too high? Set it to a lower value, to let the sound start faster. Is the Volume parameter too low? Set it to a higher value.	82, 88
Lowest note are not played	When the SPLIT button is lit up, the keyboard will be divided into the Lower part (low notes, below the split point) and the Upper part (high notes, above the split point). Is the Lower track muted? Unmute it.	25
Wrong sounds	Do the USER banks contain modified data? Load the appropriate data for the Song or the Style you wish to playback.	255
	Has one of the USER Drum Kits been modified? Load the appropriate Drum Kits.	255
	Have the Styles or Performances been modified? Load the appropriate data (Styles or Performances).	255
Sound does not stop	Make sure that the damper switch polarity parameter is set correctly.	229
The selected Style or Song cannot Start Make sure that the Clock parameter is set to Int. If you are using the MIDI Clock of another device, you must set the MIDI Clock parameter to MIDI or PC TO HOST (depending on the port the Pa1X is hooked to the other device through) and make sure that the external device transmits MIDI Clock data.		230
Does not respond to MIDI mes-	Make sure that all MIDI cables are connected correctly.	273
sages	Make sure that the external device is transmitting through MIDI channels enabled to receive in the Pa1X.	232
	Make sure that the MIDI IN Filters of the Pa1X do not prevent the reception of messages.	233
Percussive instruments are not played correctly	not Make sure that the Drum track is set to Drum Mode and the external device has not transposi- tion applied.	
Some "clicks" can be heard when playing a percussive instrument	This is part of the sound, and not a problem.	
A background noise can be heard after selecting a Performance, Style or STS	The selected Performance, Style or STS recalled the effect "15 Analog Record", simulating the noise of a old vinyl recording.	
The Voice Processor cannot be heard	The Vocoder effect has been assigned to the D FX processor. This deactivates the Voice processor.	370
	Voice processor effects an only be applied to the microphone (MIC) input	

Problem	Solution	Page
Disk related problems		•
Cannot format a floppy disk	Are you using a 3.5 inch 2DD or 2HD floppy disk? You must use one of these types.	
	Is the disk inserted correctly?	271
	Is the write protect tab of the disk in the protect position?	271
Cannot save data to a floppy disk	Is the disk formatted?	263
	Is the disk inserted correctly?	271
	Is the write protect tab of the disk in the protect position?	271
Cannot load data from a floppy	Is the disk inserted correctly?	271
disk	Does the disk contain data compatible with the Pa1X?	253

Technical specifications

Model	Pa1X Pro	Pa1X	
Keyboard	76 keys, semi-weighted, with velocity and mono aftertouch.	61 keys, semi-weighted, with velocity and mono aftertouch.	
Operating System	KORG OPOS (Objective Portable Operating System) and RX (Real eXperience) Technology. Multitasking, Load-While-Play feature. SS (Solid State Disk)-resident. Upgradable from floppy disk.		
Display	320 × 240 pixels, Color TouchView™ graphic touch screen		
Help	Hypertextual, context-sensitive help system. Multilingual starting f	rom OS Rel. 1.5.	
Data storage	1.44MB Floppy Disk Drive (MS-DOS® compatible), Optional CD- RW (KORG CDRW-1), Standard 2.5" ATA Hard Disk Drive	1.44MB Floppy Disk Drive (MS-DOS® compatible), Optional CD- RW (KORG CDRW-1), Optional 2.5" ATA Hard Disk Drive	
Sound generation system	KORG HI - Hyper Integrated.		
Polyphony	62 voices, 62 oscillators. Filters with resonance.		
Multitimbricity	40 tracks (2 x 16 Sequencer, 4 Keyboard, 4 Pads)		
Sounds	Factory: >870, including a Stereo Piano and GM Level 2-compatible User: 256 Sounds, 64 Drum Kits.	e Programs, 48 Drum Kits	
Digital Drawbars	8 Footages. Realtime control, using the Assignable Sliders		
Sound Edit	Onboard full editing for Sounds and Drum Kits		
Sampling	Record, Edit, Time Slice (compatible with Korg, Wav, Aiff and Akai	files)	
PCM RAM Memory	16MB standard, expandable up to 32MB with an optional 16MB SI	MM module	
PCM ROM Expansion	2 slots available, for up to 32MB of additional samples (up to 512 e	extra Sounds and 128 Drum Kits)	
Effects	4 stereo digital multi-effect processors (with 89 effect types each,	olus Vocoder). Voice Processor by TC•Helicon™.	
Voice Processor	Voice technology by TC•Helicon [™] . Four-parts harmonizer, Reverb, able as options.	Delay, Compressor, EQ. Pitch Correction and Voice Modeling avail-	
Realtime Tracks	Four Keyboard tracks (Upper 1, 2, 3, Lower), 4 Pad tracks		
Performances	320 Realtime Performance locations.		
Single Touch Settings (STS)	Memorize Realtime tracks and Voice Processor settings. Up to 4×6	508 Styles. Up to 4 $ imes$ each SongBook entry.	
Styles	More than 450 preloaded Styles, SSD-resident, freely reconfigurab Touch Settings and one Style Performance per-Style. Direct Disk (up to 96 Styles) and Direct Hard Disk (up to 288 Styles) Style Record with Edit functions, Step Edit, Event Edit. Up to 96 Us	functions. Compatible with old i-Series and Pa80/60-series Styles.	
Style controls		x, Synchro Start/Stop, Tap Tempo/Reset, Fade In/Out, Bass Inversion, mpaniment Mute, Drum Mapping, Snare & Kick Designation, Single	
General controls	Master Volume, Ensemble, Octave Transpose, Master Transpose, Split Point, Style Change, Tracks Volume, Quarter Tone (pedal func- tion), Assignable Sliders, Assignable Switches, Joystick, Dial.		
Pads	4 Assignable Pads + Stop button		
Song Play	Patented XDS Crossfade Dual Sequencer player - 2 Sequencers with ward) controls. Balance control. Lyrics data can be displayed on-screen, or on an external video mo Audio CDs and MP3 files (both optional).	n separate Select, Start/Stop, Pause, << (Rewind) and >> (Fast For- nitor. Jukebox function. SMF Direct Player (formats 0 and 1). Reads	
Sequencer	Quick, Multitrack and Step Record functions. Full-featured sequen	cer. 16 tracks. Up to 200,000 events. SMF native format.	
MP3 Player/Recorder	MP3 Player/Recorder (optional). Requires a KORG EXBP-MP3 expan	nsion board.	
CD Audio Player/Writer	Optional. Requires a KORG CDRW-1 drive. Reads audio and data, v	vrites data (ISO 9660 disks).	
SongBook	Fully programmable music database, with automatic selection of S ated.	tyle Play and Song Play modes. Different custom lists can be cre-	
Pedals	Damper, Assignable (continuous, footswitch), EC5		
Realtime controllers	Joystick (pitch + modulation), Assignable Sliders, Assignable Switch	nes, Pads	
MIDI	$2 \times IN$, $2 \times OUT$ (toggle as THRU ports). Individual track assignment	t. Auto-setup functions (MIDI Setup)	
USB	USB 1.1 connector (Type B/Slave)		
Audio Inputs	2 × Line In, 1 × Mic In with Gain control		
Audio Outputs	2 Main (Left/Mono, Right), 2 Sub (1, 2), 1 48kHz S/PDIF digital coaxial (mirroring Main Outputs)		
Headphone	Front 6.3 mm 1/4" jack connection		
Amplification	-	Bi-amped 2×35 Watt (Woofer) + 2×12 Watt	
Speakers	-	4 Speakers (13 cm Woofer + Dome Tweeter), 2-way, Bass Reflex Box	
Power Supply	Universal 100 ~ 240V AC power supply		
Power Consumption	35 W	65 W	
Dimensions	W: 1330 mm / 52.36", D: 366 mm / 14.40", H: 136 mm / 5.35" (with- out music stand)	W: 1123 mm / 44.21", D: 428 mm / 16.85", H: 189 mm / 7.44" (with- out music stand)	
Weight	19.5 kg / 44.99 lbs	22 kg / 48.5 lbs	

Model	Pa1X Pro		Pa1X	
Options	EC5 Multiswitch Controller EXP-2 Expression/Volume Pedal XVP-10 Expression/Volume Pedal PS-1 Footswitch DS-1H Damper Pedal			
	SUG-TC1 Pitch Correction/Voice Modeling	SUG-TC1 Pitch Correction/Voice Modeling Software Upgrade (by TC•Helicon)		
	CDRW-1 CD Player/Writer (user installable EXBP-MP3 MP3 Player/Recorder Board (us VIF3 NTSC/PAL Video Interface (user insta	er installable)		
		1 × 16MB, 72-pin SIMM module (<i>user installable</i>) 2 × EXBP-series ROM expansions (<i>user installable</i>)		
	-		2.5" ATA Hard disk (user installable)	

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