

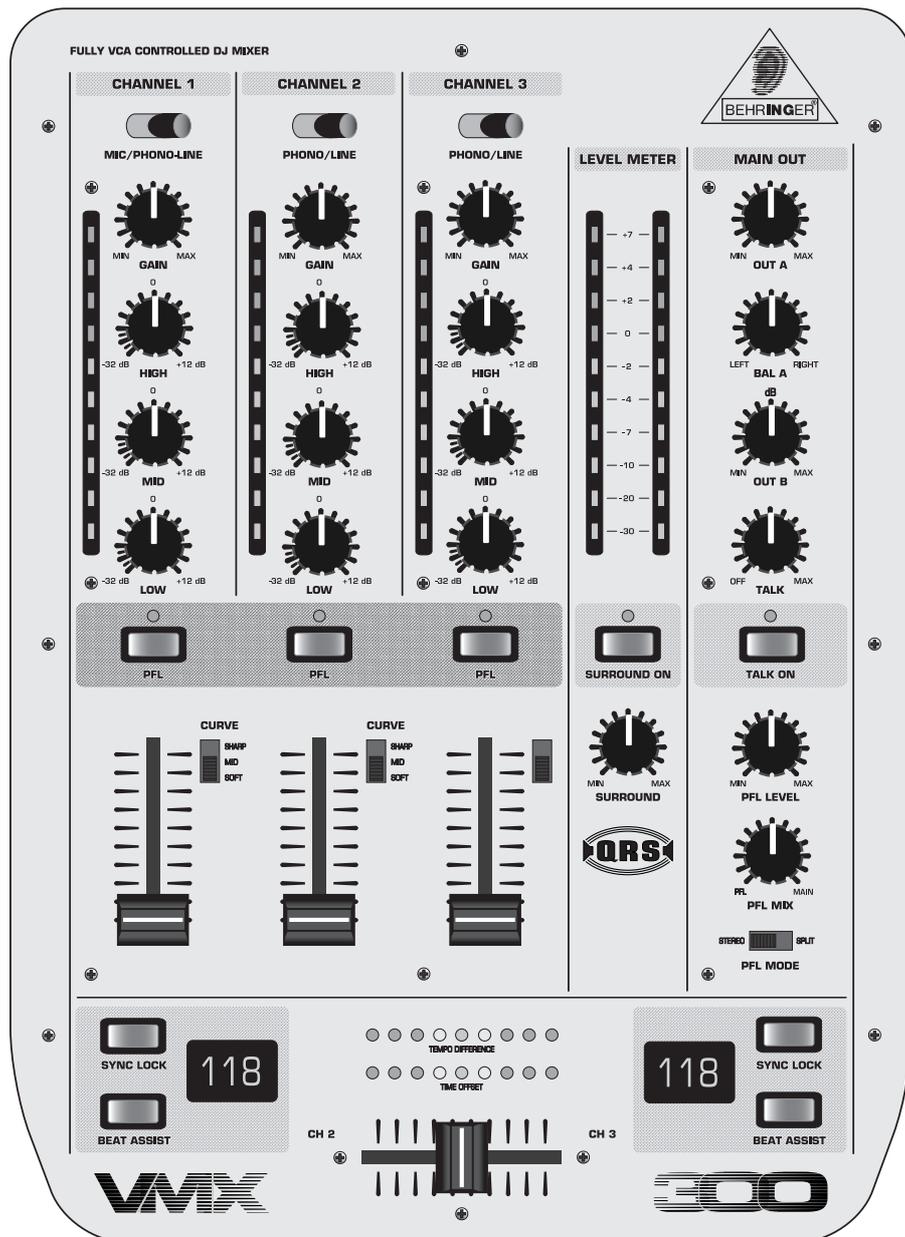
VMX300

PRO MIXER

User's Manual

Version 1.0 September 2001

ENGLISH



www.behringer.com

SAFETY INSTRUCTIONS

CAUTION: To reduce the risk of electric shock, do not remove the cover (or back). No user serviceable parts inside; refer servicing to qualified personnel.



WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure—voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual.

DETAILED SAFETY INSTRUCTIONS:

All the safety and operation instructions should be read before the appliance is operated.

Retain Instructions:

The safety and operating instructions should be retained for future reference.

Heed Warnings:

All warnings on the appliance and in the operating instructions should be adhered to.

Follow instructions:

All operation and user instructions should be followed.

Water and Moisture:

The appliance should not be used near water (e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool etc.).

Ventilation:

The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

Heat:

The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

Power Source:

The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.

Grounding or Polarization:

Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

Power-Cord Protection:

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles and the point where they exit from the appliance.

Cleaning:

The appliance should be cleaned only as recommended by the manufacturer.

Non-use Periods:

The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

Debris and Liquid Entry:

Care should be taken that debris and/or liquids do not enter the enclosure through openings.

Damage Requiring Service:

The appliance should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged; or
- Debris or liquid has entered the appliance; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure damaged.

Servicing:

The user should not attempt to service the appliance beyond that which is described in the operating instructions. All other servicing should be referred to qualified service personnel.

FOREWORD

Dear Customer,

Welcome to the team of PRO MIXER users and thank you for demonstrating your faith in us by purchasing the BEHRINGER VMX300.

Writing this foreword to you is an extremely pleasant task. After several months of intensive brainstorming and the subsequent realization of their ideas, our engineers finally achieved an ambitious goal: the construction of an outstanding DJ MIXER, which, due to its remarkable functions, provides maximum flexibility and impressive performance. As with any new product, the development of this new PRO MIXER also meant a great deal of responsibility. Throughout the entire planning and development phases, we kept you—the discerning end-user and DJ, your requirements and your requests at the focal point of our considerations. Meeting your professional expectations required a lot of effort and more than a few night shifts, but this is exactly the kind of challenge that keeps us alive and kicking. Developing a new product always brings a large number of people together, and it's a great feeling when all involved can take pride in the results.

It is an important part of our philosophy to share our gratification with you, since you're the most important member of the BEHRINGER team. With your highly competent suggestions for new products, you've contributed immensely to the development and success of our company. In return, we bring you uncompromising quality, guaranteed by the stringent BEHRINGER quality control system, as well as excellent technical and audio specifications, at an extremely favorable price. We hope that this will enable you to fully unfold your creativity without being hampered by budget constraints.

We are often asked how we manage to produce such high-grade devices at such unbelievably low prices. The answer is quite simple: it's you, our customers! Lots of satisfied customers means large sales volumes, which in turn enables us to reduce production and logistics expenses. We believe it's only fair to pass this benefit back to you—after all, your success is our success!

I would like to thank everyone who helped make our new PRO MIXER project possible and successful. Each of those people made very personal contributions, from our engineers and designers to our numerous staff members and finally to you as a BEHRINGER user.

My friends, it's been worth the trouble!

Thank you very much,

A handwritten signature in black ink, appearing to read 'U. Behringer', with a long horizontal flourish extending to the right.

Uli Behringer

PRO MIXER

Professional 3-channel ultra low-noise DJ mixer

- ▲ Intelligent dual auto-BPM counter with time and beat sync display
- ▲ Super-smooth Ultraglide faders with up to 500,000 life cycles
- ▲ Awesome QRS 3D surround effect
- ▲ Dedicated curve control for all faders
- ▲ VCA engines for utmost reliability and smooth audio performance
- ▲ Extremely steep frequency separation via front-panel 3-way kill switches with revolutionary keyboard-like tap & hold action
- ▲ Gain and 3-band kill EQ (-32 dB) per channel
- ▲ Precise level meters with peak hold function per channel
- ▲ Crossfader reverse switch
- ▲ Auto-talkover function with separate depth control
- ▲ Extremely low-noise ULN-(Ultra-Low Noise) design, like those on professional studio consoles
- ▲ Gold-plated cinch sockets for excellent audio qualities
- ▲ Super-rugged construction ensures long life, even under the most demanding conditions
- ▲ Manufactured under ISO9000 certified management system

VMX300

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1. INTRODUCTION

With the BEHRINGER PRO MIXER VMX300, you have purchased an absolutely state-of-the-art DJ mixer. Its extensive features, i.e. beat counter and effects loop, open the door to new and creative ways of working, while making it suitable for a variety of professional applications. At the same time, the VMX300 is extremely easy to operate, allowing you to completely unfold your creativity.

Time waits for no one, and neither you nor we want to be left behind. That's why we invested months of research and development into creating a DJ mixer that offers up-to-date features and technology to give you a true cutting edge for your performances. Fully optimized for dance club applications and DJ systems, the VMX300 promises full-blown DJ'ing fun—and success.

Let's be honest: nobody likes reading users' manuals. We know you want to plug in and get jammin', but please take the time to read the following instructions. We've kept them as short as possible, and it will be well worth the few minutes it takes you. Armed with a thorough understanding of the VMX300's features and functions, you'll be able to get the most out of this exciting product.

 **The following instructions will give you a brief run-down on the terminology and functions of the VMX300. After reading, please store this manual in a safe place for future reference.**

1.1 Before you get started

Your PRO MIXER was carefully packed in the factory and the packaging is designed to protect the unit against rough handling. Nevertheless, we recommend that you carefully examine packaging and contents for any signs of physical damage which may have occurred during transit.

 **If the unit is damaged, please do not return it to BEHRINGER, but notify your dealer and the shipping company immediately. Otherwise, claims for damage or replacement may not be granted. Shipping claims must be made by the consignee.**

Please take care to always ensure adequate ventilation. Do not place the PRO MIXER near heating units or heat-generating devices in order to avoid overheating.

CAUTION!

 **We would like to point out that high volumes can permanently damage your sense of hearing and/or your headphone or speaker systems. Therefore, please turn the MAIN control in the MIC/MAIN section all the way to the left before turning on the mixer. And please exercise caution and common sense when setting volume levels.**

2. FRONT PANEL

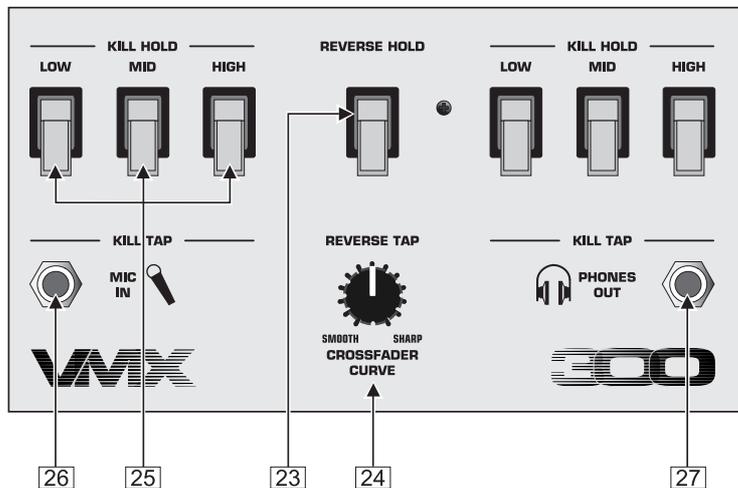
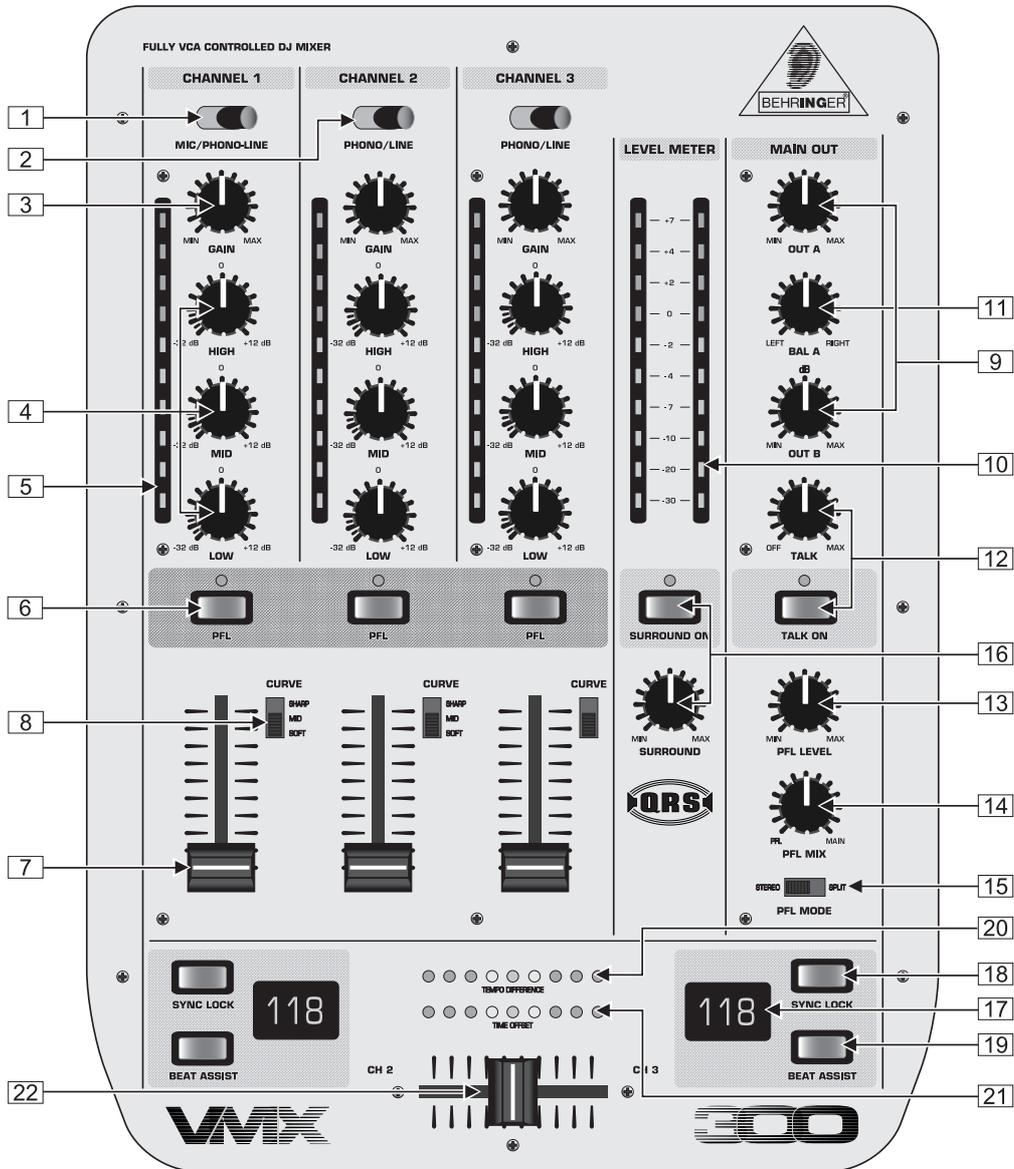


Fig. 2.1: Front view of the PRO MIXER VMX300

2.1 Input channels

- 1 The *MIC/PHONO-LINE* switch allows you to select the input signal, choosing between microphone and line/phono. Whether the right-hand position selects the line or mic input depends on the position of the PHONO/LINE switch on the rear panel (see [31]).
- 2 The *PHONO/LINE* switch on channels 2 and 3 selects one of the input pairs on the respective channel. The “PHONO” setting (and inputs) are intended for turntables; for all other signal sources, i.e. a CD or MD player, use the “LINE” setting and inputs. A second switch on the rear panel enables the phono input pair to be switched to line level, allowing 2 line-level units to be connected and selected via the *PHONO /LINE* switch ([32]).

 **Never connect line-level equipment to the highly sensitive phono inputs! The output levels of phono cartridge systems are in the millivolt range, whereas CD and MD players, as well as tape decks, provide outputs levels in the volt range. In other words, the level of line signals is up to 100 times higher than phono output levels.**

- 3 The *GAIN* control is used to adjust the input signal level.

 **The overall level of your signal is also effected by the EQ settings. It's a good idea to adjust the equalizer before you set the level with the GAIN control.**

- 4 All input channels are equipped with a *3-BAND EQUALIZER* with kill characteristic. The maximum amount of attenuation (-32 dB) is much higher than the maximum boost (+12 dB), allowing entire frequency spectrums to be “removed” from a track.
- 5 The *LED chains* on channels 1 to 3 display the level of the input signal (pre-fader/post-EQ).
- 6 The *PFL* button sends the channel's input signal to the PFL (headphones) section.
- 7 The *CHANNEL* fader adjusts the final channel volume. The fader is VCA-controlled (VCA = Voltage-Controlled Amplifier) to ensure smooth operation and long life.
- 8 The *CURVE* switch underneath the channel fader enables you to select between three fade modes: SOFT, MID and SHARP. In SOFT mode the fader controls the volume in a linear, continuous manner. Run a track through on of the VMX300's channels and pull the fader down slowly: the volume will decrease gradually. In SHARP mode the fader takes on a more logarithmic effect, reducing the volume faster towards the lower end of the fader range, even if you move the fader smoothly. MID mode is a combination of the SOFT and SHARP modes.

 **Flipping the CURVE switch may cause a sudden change in volume. We recommend not changing this setting while a signal is present.**

2.2 Main out section

- 9 The *OUT A* and *OUT B* controls adjust the output levels of the AMP and BOOTH outputs, respectively.
- 10 The *LEVEL METER* displays the OUT A level.
- 11 The *BAL A* control allows you to adjust the stereo balance for the AMP output.
- 12 The PRO MIXER VMX300 is equipped with a talkover function, which works very simply: if you speak into the microphone while a track is running, the volume of the music is automatically reduced, so that your voice is always “in front”. The *TALK* control allows you to determine how much the music volume is lowered (max. -24 dB). The *TALK ON* button activates the talkover function.

2.3 PFL section (Pre-Fader Listening)

The PFL signal is a pre-fader headphones signal, enabling you to pre-listen to a signal source without effecting the main signal.

- 13 The *PFL LEVEL* control sets the volume of the headphone signal.
- 14 The *PFL MIX* control lets you fade between channels 1 and 2 when the PFL MODE switch (see below) is set to STEREO.

- [15] If the *PFL MODE* switch is set to *SPLIT*, the channels are strictly separated: channel 1 will be heard on the left side, channel 2 on the right. In this mode, the *MIX* control has no influence on the *PFL* signal.

2.4 3D surround function

The built-in QRS effect [16] widens the stereo image and adds life and transparency to your sound—an easy way to put a unique final polish on your music and turn your performance into an incomparable experience. The *SURROUND* control determines the intensity of the effect, which can be turned on and off via the *ON* button.

2.5 Beat counter

The PRO MIXER VMX300's built-in beat counter is an extremely useful feature, allowing smooth crossfades between two tracks—an important key to the success of your performance. The beat counter analyzes and displays the tempi of your tracks in BPM (Beats Per Minute). The beat counter sections of channel 1 and 2 are identical.

The tempo of the track is shown in the respective channel's *DISPLAY* ([17]). In the case of multiple tempo changes, the display would change continuously, causing unnecessary confusion and rendering the function virtually useless. Enter the *SYNC LOCK* button ([18]): with it, you can limit the range of possible tempo values within a song. Pressing this button once the counter has “caught” and displayed a realistic value will simplify things. The *BEAT ASSIST* button ([19]) allows you to set the beat counter's tempo manually, similar to “tap tempo”. Pressing the button three times in time with the track will set the beat counter and its display at that tempo. The *BEAT ASSIST* and *SYNC LOCK* buttons are each equipped with an LED to show that the respective function is activated.

Once the tempo of the two tracks have been determined and locked with the *SYNC LOCK* or *BEAT ASSIST* buttons, the tempo difference between channel 1 and 2 will be depicted via the 9-segment *TEMPO DIFFERENCE* LED display ([20]). It shows the degree of the tempo difference by a respective deflection to the right (channel 2 track is faster) or to the left (channel 1 track is faster). The center LED lights when the tempi are equal. The synchronization of channel 1 and 2 is shown in the *TIME OFFSET* LED display ([21]) below the *TEMPO DIFFERENCE* display. When the center LED is lit, the tracks are in sync with each other. When the display moves to the left or right, the corresponding channel is running out of sync. The *TEMPO DIFFERENCE* and *TIME OFFSET* displays are only active when the tempi of both channels have been locked as explained above.

To exit the *SYNC LOCK* or *BEAT ASSIST* mode, simply press the *SYNC LOCK* key in both channels again.

2.6 Crossfader section

- [22] The *CROSSFADER* is used to fade between channels 1 and 2. Like the channel faders, the crossfader section is equipped with a 45-mm VCA-controlled fader.
- [23] The *REVERSE* switch (*TAP/HOLD*) enables you to invert the direction of the crossfader, so that you can quickly switch from channel 1 to channel 2. This effect is created by simply pushing the *REVERSE* switch down (*TAP*)—as soon as it is released, it returns to its original position and your crossfade setting (and your music) is at it was before. Pressed upwards, the switch locks into the reversed position (*HOLD*). To reset it, simply push it downwards.
- [24] The *CROSSFADER CURVE* control in the crossfader section is similar to the *CURVE* switches in the input channels (see [8]). The control allows you to fade between the various crossfader curve modes.
- [25] The *KILL* switches (*TAP/HOLD*) enable you to attenuate the three frequency bands (*LOW*, *MID* and *HIGH*) by -32 dB with a single press. Like the *REVERSE* switch, the switches lock in the upward position (*KILL HOLD*), and must be held in the downward position (*KILL TAP*). With other DJ mixers, the kill switches override the channel EQ's. The VMX3000 is unique in that the kill switches supplement the channel EQ's, allowing extreme attenuation of the respective frequency band. The left-side *KILL* switches are assigned to channel 2, the right-side switches to channel 3. There are no *KILL* switches for channel 1.
- [26] The *MIC INPUT* connector is a balanced ¼" TRS socket for microphone connection.

 We strongly recommend the use of high-grade cables and connectors for the transmission of audio signals. Inferior quality materials cannot supply acceptable audio quality or corrosion protection.

27 The *PHONES OUT* socket allows you to connect your headphones for pre-listening (PFL signal). For best results, use headphones with an impedance rating of at least 32 Ohms.

3. REAR PANEL

With the exception of MIC INPUT and HEADPHONES, all of the VMX300's audio connections are located on the rear panel and supplied as RCA connectors.

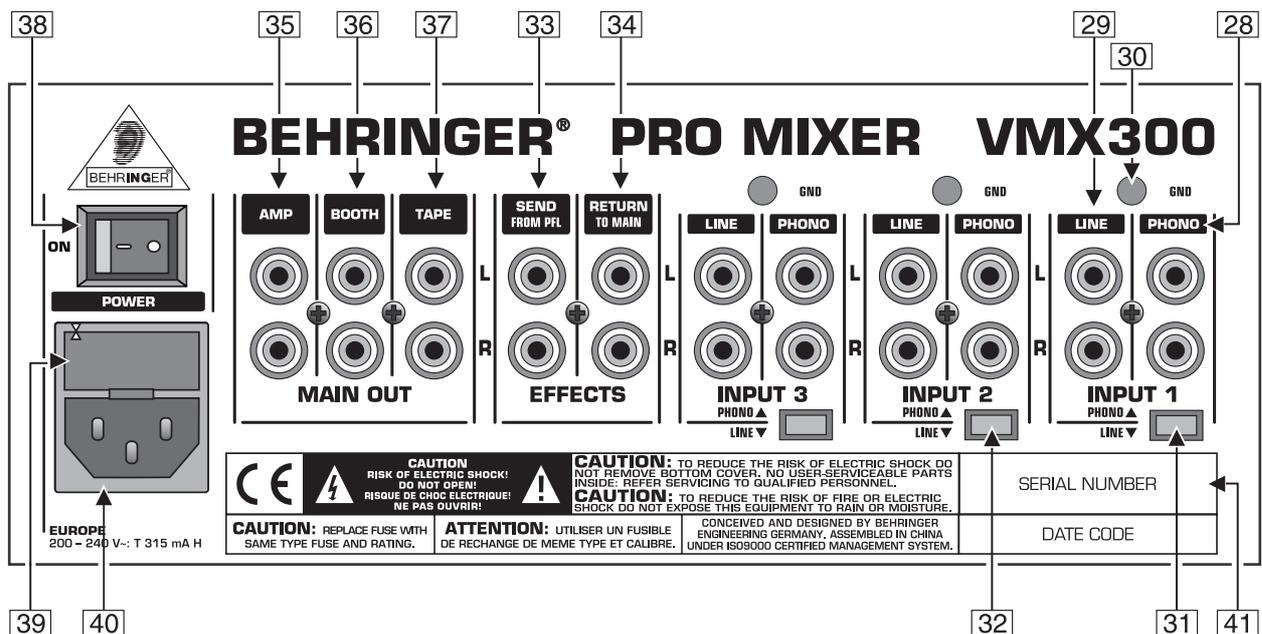


Fig 3.1: Rear view of the PRO MIXER VMX300

28 The *PHONO* inputs for all three channels are primarily intended for turntable connection (see *PHONO/LINE* switch below).

29 The *LINE* inputs may be used for connecting tape decks, CD or MD players etc.

30 The *GND* connection allows grounding of a turntable.

31 The *PHONO/LINE* switch on channel 1 allows you to select either the *PHONO* or *LINE* inputs. Be sure to set the *MIC/PHONO-LINE* switch on the front panel to the *PHONO-LINE* position.

32 The *PHONO/LINE* switches on channels 2 and 3 allow you to set the input sensitivity of the *PHONO* inputs to line level, so that they can also be used for connection of tape decks, CD or MD players etc.

33 The VMX300 is equipped with an effects loop for external effects devices. The *SEND* output sends the PFL signal to a connected device, e.g. a reverb unit.

34 The resulting effect signal can be input to the *MAIN OUT* section via the *RETURN* input. The effect level must be adjusted on the external effects unit. The *RETURN* input can also be used as an extra input for connection of an additional signal source (e.g. sampler)—also in this case the level must be set on the external device.

 If an external effects unit is connected via the VMX300's effect loop, the selected PFL signal is sent to the unit. If you change the PFL section setting, e.g. to pre-listen to another channel, that signal will be sent to the effects unit—the effect signal of a different track will be mixed to your *MAIN OUT* signal. Remember: the effects unit gets its signal from the PFL section (see **30**).

-
- 35 Use the *AMP* output to connect the VMX300 to an amplifier. The level is controlled by the OUT A control in the MAIN OUT section.
- 36 The *BOOTH* output offers a connection for an additional amplifier and/or loudspeaker system. The level is controlled by the OUT B control in the MAIN OUT section.
-  **In order to avoid power-up thumps, which can damage your loudspeakers, please power up your amplifier last. There should be no signal present, e.g. no music playing, when you turn on your amp. In addition, we suggest that you set all volume-related controls to “zero” (down) before powering up your system. Following these precautions will save you from unpleasant and potentially dangerous surprises.**
- 37 The *TAPE* output enables you to record your performance by connecting a tape deck, DAT recorder etc. Unlike the AMP and BOOTH outputs, the TAPE level is fixed, so that you have to adjust the input level on the recorder.
- 38 The *POWER ON* switch turns on the PRO MIXER.
- 39 *FUSE HOLDER/VOLTAGE SELECTOR*. Before you connect the equipment to an AC outlet, please be sure that the voltage displayed corresponds with your local AC voltage. If you should need to replace the fuse, be sure to replace it with one of the same type and value. Some units allow you to switch between 230 V and 115 V by rotating the fuse holder.
-  **To operate the unit at 115 V, you must install a fuse with a higher ampere rating.**
- 40 This is the socket for the power cable. The impulse behavior of any given amplifier circuit depends largely upon the power supply's inherent reserves. All mixers contain numerous operational amplifiers (op-amps) for processing line-level signals. Due to the restricted performance of their power supplies, many mixers show “stress symptoms” when used under extreme conditions, resulting in inferior audio quality. Thanks to its generously proportioned power supply, this will never happen to your VMX300: The sound will always be clear, transparent and powerful.
- 41 *SERIAL NUMBER*. Please take the time to fill out and return the warranty card within 14 days after the date of purchase. This will entitle you to all the benefits of our extended warranty. Alternatively, you can register online at www.behringer.com.

4. SPECIFICATIONS

AUDIO INPUTS

Mic input	46 dB gain, servo-balanced
Phono inputs 1, 2 and 3	40 dB gain @ 1 kHz, unbalanced
Line inputs 1, 2 and 3	0 dB gain, unbalanced
Return	0 dB gain, unbalanced

AUDIO OUTPUTS

Main Out	max. +21 dBu @ +5 dBu (Line In)
Booth Out	max. +13 dBu
Tape Out	typically 0 dBu
Send	typically 0 dBu
Headphones	typically 125mW @ 1 % THD

EQUALIZER (+/-8 dB)

Stereo Low	+12 dB/-32 dB @ 50 Hz
Stereo Mid	+12 dB/-32 dB @ 1,2 Hz
Stereo High	+12 dB/-32 dB @ 10 kHz
Kill Low	-54 dB @ 50 Hz
Kill Mid	-44 dB @ 1 kHz
Kill High	-26 dB @ 10 kHz

GENERAL

Signal-to-noise ratio (S/N)	> 85 dB (Line)
Crosstalk	> 77 dB (Line)
Distortion (THD)	< 0,05%
Frequency response	20 Hz - 20 kHz
Input gain adjustment	-20 dB - +9 dB

POWER SUPPLY

AC voltage	USA/Canada	120 V ~, 60 Hz, fuse T 500 mA H
	U.K./Australia	240 V ~, 50 Hz, fuse T 315 mA H
	Europe	230 V ~, 50 Hz, fuse T 315 mA H

DIMENSIONS AND WEIGHT

Dimensions (H x W x D)	approx. 3 1/2" (88 mm) x 9 1/2" (241 mm) x 13 1/10" (332 mm)
Weight	approx. 3.5 kg (7 lbs. 4 oz)

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

5. WARRANTY

§ 1 WARRANTY CARD/ONLINE REGISTRATION

To be protected by the extended warranty, the buyer must complete and return the enclosed warranty card within 14 days of the date of purchase to BEHRINGER Spezielle Studiotechnik GmbH, in accordance with the conditions stipulated in § 3. Failure to return the card in due time (date as per postmark) will void any extended warranty claims.

Based on the conditions herein, the buyer may also choose to use the online registration option via the Internet (www.behringer.com or www.behringer.de).

§ 2 WARRANTY

1. BEHRINGER (BEHRINGER Spezielle Studiotechnik GmbH including all BEHRINGER subsidiaries listed on the enclosed page, except BEHRINGER Japan) warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (1) year from the original date of purchase, in accordance with the warranty regulations described below. If the product shows any defects within the specified warranty period that are not due to normal wear and tear and/or improper handling by the user, BEHRINGER shall, at its sole discretion, either repair or replace the product.

2. If the warranty claim proves to be justified, the product will be returned to the user freight prepaid.

3. Warranty claims other than those indicated above are expressly excluded.

§ 3 RETURN AUTHORIZATION NUMBER

1. To obtain warranty service, the buyer (or his authorized dealer) must call BEHRINGER (see enclosed list) during normal business hours **BEFORE** returning the product. All inquiries must be accompanied by a description of the problem. BEHRINGER will then issue a return authorization number.

2. Subsequently, the product must be returned in its original shipping carton, together with the return authorization number to the address indicated by BEHRINGER.

3. Shipments without freight prepaid will not be accepted.

§ 4 WARRANTY REGULATIONS

1. Warranty services will be furnished only if the product is accompanied by a copy of the original retail dealer's invoice. Any product deemed eligible for repair or replacement by BEHRINGER under the terms of this warranty will be repaired or replaced within 30 days of receipt of the product at BEHRINGER.

2. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. The warranty does not cover any such modification/adaptation, irrespective of whether it was carried out properly or not. Under the terms of this warranty, BEHRINGER shall not be held responsible for any cost resulting from such a modification/adaptation.

3. Free inspections and maintenance/repair work are expressly excluded from this warranty, in particular, if caused by improper handling of the product by the user.

This also applies to defects caused by normal wear and tear, in particular, of faders, potentiometers, keys/buttons and similar parts.

4. Damages/defects caused by the following conditions are not covered by this warranty:

- ▲ misuse, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals.

- ▲ connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used.

- ▲ damages/defects caused by force majeure or any other condition that is beyond the control of BEHRINGER.

5. Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the warranty.

6. If an inspection of the product by BEHRINGER shows that the defect in question is not covered by the warranty, the inspection costs are payable by the customer.

7. Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. BEHRINGER will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, BEHRINGER will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

§ 5 WARRANTY TRANSFERABILITY

This warranty is extended exclusively to the original buyer (customer of retail dealer) and is not transferable to anyone who may subsequently purchase this product. No other person (retail dealer, etc.) shall be entitled to give any warranty promise on behalf of BEHRINGER.

§ 6 CLAIM FOR DAMAGES

Failure of BEHRINGER to provide proper warranty service shall not entitle the buyer to claim (consequential) damages. In no event shall the liability of BEHRINGER exceed the invoiced value of the product.

§ 7 OTHER WARRANTY RIGHTS AND NATIONAL LAW

1. This warranty does not exclude or limit the buyer's statutory rights provided by national law, in particular, any such rights against the seller that arise from a legally effective purchase contract.

2. The warranty regulations mentioned herein are applicable unless they constitute an infringement of national warranty law.

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