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You can read the recommendations in the user guide, the technical guide or the installation guide for BEHRINGER PMP1000. You'll find the answers to all your questions on the BEHRINGER PMP1000 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual BEHRINGER PMP1000
User guide BEHRINGER PMP1000
Operating instructions BEHRINGER PMP1000
Instructions for use BEHRINGER PMP1000
Instruction manual BEHRINGER PMP1000

The image shows the cover of a user manual. On the left, the text "EUROPOWER PMP1000/PMP3000/PMP5000" is written vertically. In the center, there is a photograph of three BEHRINGER PMP series power amplifiers stacked on top of each other. Above the photo, the text "User Manual" is displayed with a small logo to its right. Below that, it says "Version 1.0 November 2006". At the bottom left of the cover is the website "www.behringer.com" and at the bottom right is the BEHRINGER logo with the slogan "JUST LISTEN."



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Manual abstract:

@@@The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus. 15) Unplug this apparatus during lightning storms or when unused for long periods of time. 16) 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. 17) CAUTION - These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions unless you are qualified to do so. 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. Please read the manual. 1) Read these instructions.

2) Keep these instructions. 3) Heed all warnings. 4) Follow all instructions. 5) Do not use this apparatus near water. 6) Clean only with dry cloth. 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. 9) Do not defeat the safety purpose of the polarized or grounding-type 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. 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. 11) The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection. 2 EUROPOWER PMP1000/PMP3000/PMP5000 FOREWORD Dear Customer, Welcome to the team of EUROPOWER users and thank you very much for expressing your confidence in BEHRINGER products by purchasing this power mixer. It is one of my most pleasant tasks to write this letter to you, because it is the culmination of many months of hard work delivered by our engineering team to reach a very ambitious goal: to present you three outstanding power mixers that give you maximum flexibility and performance with a unique sound character and broad range of striking functions. The task to design the new PMP series certainly meant a great deal of responsibility, which we assumed by focusing on you, the discerning user and musician. It also meant a lot of work and night shifts to accomplish this goal. But it was fun, too.

Developing a product usually brings a lot of people together, and what a great feeling it is when everybody who participated in such a project can be proud of what we've achieved. It is our philosophy to share our joy with you, because you are the most important member of the BEHRINGER team. With your highly competent suggestions for new products you've greatly contributed to shaping our company and making it successful. In return, we guarantee you uncompromising quality as well as excellent technical and audio properties at an extremely favorable price. All of this will enable you to fully unfold your creativity without being hampered by budget constraints. We are often asked how we can make it to produce such highgrade devices at such unbelievably low prices. The answer is quite simple: it's you, our customers! Many satisfied customers means large sales volumes enabling us to get better conditions of purchase for components, etc. Isn't it only fair to pass this benefit back to you? Because we know that your success is our success, too! I would like to thank all people whose help on "Project PMP" has made it all possible. Everybody has made very personal contributions, starting from the designers of the unit to the many staff members in our company and finally to you, the user of BEHRINGER products. TABLE OF CONTENTS 1 INTRODUCTION .

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..... 17 My friends, it's been worth the trouble! Thank you very much, Uli Behringer CAUTION! We would like to point out that high volume levels may damage your hearing and/or your headphones. Please move down all faders in the MAIN section before turning on the device. Always make sure that the appropriate volume is set. 3 EUROPOWER PMP1000/PMP3000/PMP5000 1 INTRODUCTION Congratulations! With the PMP1000/PMP3000/PMP5000 you have acquired a state-of-the-art power mixer that sets new standards. Right from the very start it has been our goal to design a revolutionary unit that can be used for a wide variety of applications.

Indeed, this overwhelming power mixer gives you plenty of functionality and a broad range of connection and expansion options. Your PMP features our revolutionary COOLAUDIO amplifier technology, which reduces the weight and size of the unit considerably and ensures extremely high output power. Further advantages are the integrated Voice Canceller that removes vocal passages from playbacks, the FBQ function, which detects feedback frequencies, and the Speaker Processing function for loudspeaker alignment--all with a resolution of 24 bits and 40 kHz. Plus, our tried and tested XENYX Mic Preamps give you crystal-clear audio free of noise and distortion when using microphones. BEHRINGER is a company with its roots in professional recording studio technology.

For many years we have been successful in developing products for studio and live use. These include microphones and 19" units of all types (compressors, enhancers, noise gates, tube processors, headphone amplifiers, digital effects, DI boxes, etc.), monitor and P.A. speakers and professional live and recording mixers.

Our entire technical knowhow has gone into your PMP power mixer. 1.1.2 Initial operation Be sure that there is enough air space around the unit for cooling and, to avoid overheating, please do not place the EUROPOWER near radiators, etc. Blown fuses must be replaced by fuses of the same type and rating!

Please refer to the "SPECIFICATIONS" for details.



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The mains connection is made using the enclosed power cord and a standard IEC receptacle. It meets all of the international safety certification requirements. Please make sure that all units have a proper ground connection. For your own safety, never remove or disable the ground conductor from the unit or on the AC power cord. To avoid damage on the device, do not - earth the loudspeaker outputs - connect the loudspeaker outputs to each other - connect the loudspeaker outputs to those of other amplifiers **IMPORTANT NOTES CONCERNING INSTALLATION** The sound quality may diminish within the range of powerful broadcasting stations and high-frequency sources.

Increase the distance between the transmitter and the device and use shielded cables for all connections. 1.1 Before you get started 1.1.1 Shipment Your PMP was carefully packed at the factory and the packaging is designed to protect the unit from rough handling. Nevertheless, we recommend that you carefully examine the packaging and its 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. We recommend that you use a flight case, so as to give your power mixer optimum protection during use or transport. Always use the original packing carton to prevent damage during storage or transport.

Make sure that children cannot play unsupervised with the device or its packaging. Please ensure proper disposal of all packing materials. 1.1.3 Online registration Please do remember to register your new BEHRINGER equipment right after your purchase by visiting www.behringer.com (alternatively www.behringer.de) and kindly read the terms and conditions of our warranty carefully. Should your BEHRINGER product malfunction, our goal is to have it repaired as quickly as possible.

To arrange for warranty service, please contact the retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (www.behringer.com). Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation! 1.2 The manual This manual is designed to give you both an overview of all control elements and to provide details about how to use them.

To provide you with a clear structure, we have grouped the control elements according to their function. They can easily be found on the enclosed numbered illustrations. If you need more detailed information on specific topics, please visit our web site at www.behringer.com. 4 1 INTRODUCTION EUROPOWER PMP1000/PMP3000/PMP5000 2 CONTROL ELEMENTS A detailed description of all functions of your power mixer can be found in the following chapters. Please also refer to the enclosed sheet with the numbered illustrations to get a good overview of the control layout. PMP3000/PMP5000: When you press the PFL button (Pre Fader Listening) the left LED shows the pre-fader input gain of the channel. Adjust the optimum input gain (0 . When PFL is on, the corresdB) with the TRIM control ponding LED illuminates.

If the LEVEL SET LED is illuminated constantly, the signal is within the optimum operating level range. However, if the CLIP LED indicates that the input gain is too high, youe mono/stereo combination channels 5/6 and 7/8. INSERT I/O. Insert points or simply inserts are used to process a signal with dynamic processors or equalizers. They are pre-fader, pre-EQ and pre-MON/FX SEND.

Unlike reverb and other effects, which are usually added to the dry signal, dynamic processors usually process the entire signal. So, aux send buses are not the best solution. Dynamic processors need to be inserted directly into the signal path. Once processed, the signal then returns to the mixing console at the same point where it left. Signal interruption takes place only if a plug is inserted into the corresponding jack (1/4" stereo plug: tip = signal output, ring = input).

All mono input channels are equipped with inserts. The stereo channels have a TRIM control for gain adjustment, with the input sensitivity ranging from +20 to -20 dB. PMP1000: The stereo channels 5/6 and 7/8 feature an additional XLR connector for microphones whose gain can be set from 0 to +40 dB. Each stereo channel has two line-level inputs (1/4" jacks) for the left and right channels. If only the jack marked "L" is used, the channel is mono. The signal will then be reproduced on both sides. PMP1000: This does not apply to the mono/stereo combination channels 5/6 and 7/8. 2 CONTROL ELEMENTS 5 EUROPOWER PMP1000/PMP3000/PMP5000 PMP1000: Channels 13/14 and 15/16 are routed to the main mix without additional tone or volume adjustment. For example, using the channels 13/14 and 15/16 you can connect a submixer and utilize the PMP1000's power amplifier. PMP3000: The stereo channels 9/10 and 11/12 are equipped with additional RCA connectors.

PMP5000: The stereo channels 13/14 and 15/16 are equipped with additional RCA connectors. PMP3000/PMP5000: Please note that you need to set the A/B selector to A (1/4") or B (RCA) when you connect a signal to the input. PMP3000/PMP5000: Each of the two stereo channels has two monitor controls (MON 1/2) and a LEVEL control . Like the other channels, they also feature a PFL switch. Instead of a fader this channel has a rotary LEVEL control. The phantom power supply provides the voltage necessary for the operation of condenser microphones. Use the PHANTOM switch to activate the supply for the XLR connectors of the input channels. The +48 V LED will illuminate when phantom power is on. In most cases, dynamic microphones can still be used, as long as they are connected in a balanced configuration. If in doubt, please contact the manufacturer of your microphone! With phantom power switched on, you must never connect microphones to the console (or to a stage/ wall box).

Also, be sure to mute the monitor/P.A. speakers, before you turn on the phantom power supply. After switching on, please allow the system to stabilize for about one minute, before you adjust the input gain. Caution! Never use unbalanced XLR connectors (pins 1 and 3 interconnected) on the MIC input jacks, if you are going to use the phantom power supply.

The AMP MODE switch determines the mode of operation of the PMP amplifier stage: PMP1000: MAIN: In the "MAIN" position the mixer works as a stereo amplifier. MON: In this mode the monitor signal is present at OUTPUT A and the main signal at OUTPUT B (both are mono). BRIDGE (bridged mono mode): In BRIDGE AMP MODE the output power of OUTPUT A is added to that of OUTPUT B, i.



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e. OUTPUT B delivers twice its normal output power.

PMP3000/PMP5000: MAIN L/MAIN R. In position MAIN MIX, the mixer works as a stereo amplifier. MON 1/MONO. In this mode the monitor 1 signal is present at OUTPUT A and the main signal at OUTPUT B (both are mono). BRIDGE (bridged mono mode): In BRIDGE AMP MODE the output power of OUTPUT A is added to that of OUTPUT B, i.e. OUTPUT B delivers twice its normal output power. In BRIDGE mode, always connect only loudspeaker with an impedance of at least 8 the OUTPUT B jack! Please note that OUTPUT A NEVER be used in BRIDGE mode! one to must Please note that the power delivered to the speaker connected to OUTPUT B in BRIDGE AMP MODE is considerably higher than the power provided to the speakers wired to the parallel speaker outputs. Please read the information given on the rear panel of the power mixer. Information on how to properly connect your speaker with regard to polarity can be found on the rear of the unit (PIN assignment) (see also and).

PMP5000: Use the BEHRINGER SPEAKER PROCESSING switch to activate a filter that allows you to adapt the mixer to the characteristics of your loudspeakers. If the speakers have a limited frequency response in the bass range, this function allows you to filter this range at the output signal of the mixer and thus adapt it optimally to the frequency response of the speakers. PMP1000/PMP5000: If STANDBY is pressed, all input channels are muted. During pauses you can prevent the microphones from picking up noise or interference, which would then be reproduced by the P.A. system or possibly damage the speaker diaphragms. The benefit is that all faders can be left untouched while you play back music). There is also from CD via the CD/TAPE inputs (see no need to move the faders and lose your mix. 2.2 Equalizer and FBQ Your power mixer features a graphic 7-band equalizer, which allows you to fine-tune the sound depending on the room acoustics.

In the center position the frequency response is not effected. To boost or cut a certain frequency range, simply move the corresponding fader upward or downward respectively. Please note that the equalizer behaviour depends on the position of the AMP MODE switch (see). Press the FBQ IN switch to activate the Feedback Detection system (the FBQ will be active only if you have switched on the before). Frequencies causing equalizer feedback are shown by brightly lit fader LEDs.

All other LEDs will be darker. Now, cut the frequency range in question until feedback disappears (the LED gets darker or goes out). This function is available for both the main and monitor mix. PMP1000: The switch FBQ FEEDBACK DETECTION performs the same function as on the PMP3000 and PMP5000. Use the MAIN/MON 1 switch to select whether the equalizer processes the main or the monitor mix.

When not pressed, the stereo equalizer processes only the main mix. When the switch is pressed, the EQ processes only the monitor mix. PMP1000: The MAIN MIX/MONITOR switch performs the same function as on the PMP3000 and PMP5000. Press the EQ IN switch to activate the equalizer. The fader LEDs illuminate when the EQ is on. Use this LED display to control the output level of the main signal. The upper LIM LED illuminates when the internal amp protection circuit responds to levels that are too high. PMP1000: The POWER LED is illuminated when you switch the unit on. The LIM LEDs and the LED display do NOT light up when an external signal is fed in via the PWR AMP INSERT jacks . In all other operating modes, the minimum impedance of the speaker must not fall below 4 .

6 2 CONTROL ELEMENTS EUROPOWER PMP1000/PMP3000/PMP5000 2.4 Main and monitor section The SURROUND control determines the effect intensity. This is a built-in effect, which widens the stereo panorama, thus making the sound more lively and transparent. Press the XPQ TO MAIN switch to activate this effect. Pressing the AFL switch (after-fader listening) activates the solo function. If AFL is on for the corresponding channel in the main section, you will only hear the signal from this channel. Its volume can be adjusted with the fader. Switching AFL on has no effect on the main or monitor mix, as long as you don't move the fader. @@ When AFL is on, the corresponding control LED illuminates. The PMP1000 does not have an AFL function.

PMP1000: FX SEND fader. PMP3000: FX fader. PMP5000: FX 1/2 fader. @@PMP1000: MON SEND fader. PMP3000/PMP5000: MON 1/2 fader.

@@@@@The main signal is also provided at the MAIN 1 output (see also). @@@@Set this switch to "On" to activate the filter. @@This value can be adjusted from 30 to 200 Hz. @@@@@@Use the PFL switch to monitor the signal. @@@@@@Make sure that the Clip LED illuminates with signal peaks only.

@@@@@The effects display always reads the currently selected preset. @@@@@@PMP1000: The effects processor is operative all the time.

@@@@@Enable one or both processors with the FX1/2 IN buttons. @@No effect is sent to the monitor mix when this control is set fully counter-clockwise. PMP1000: The FX TO MON control performs the same function as on the PMP3000 and PMP5000. The FX 1/2 TO MON 2 control allows you to determine the effect intensity of the multi-effects processor in the monitor 2 mix. No effect is sent to the monitor 2 mix with this control turned fully counter-clockwise. The FX 1/2 TO MAIN control allows you to determine the effect intensity of the multi-effects processor in the main mix. No effect is sent to the main mix with this control turned fully counter-clockwise. PMP1000: The FX TO MAIN control performs the same function as on the PMP3000 and PMP5000.

2 CONTROL ELEMENTS 7 EUROPOWER PMP1000/PMP3000/PMP5000 2.4.1 Connectors Use the CD/TAPE INPUT jacks (RCA) to connect an external stereo signal, such as a CD player, tape deck or other line-level sources. The VOICE CANCELLER filters vocal-specific frequencies from the CD/TAPE INPUT signal. This function can be used for karaoke, i.e. you can remove the vocals from a song and then sing along with the music yourself. The CD/TAPE OUTPUT provides the line level stereo signal (e.g. for a DAT recorder).

If the CD/TAPE OUT signal is connected to a recording machine whose output signal is returned to the CD/TAPE IN, feedback can occur when you activate the record function on the recording machine. So, disconnect the CD/TAPE IN from the recording machine before you start recording or set the CD/TAPE input signal to zero! PMP1000: The MAIN OUT jacks allow you to send the main line level signal to an external amplifier, when, for example, you want to use the mixer and effects section. The PMP3000 and PMP5000 have two separately controllable line level (MAIN 1/2). MAIN outputs Connect your monitor power amps or active monitor speakers to the MON 1/2 SEND to monitor the signal mix created with the MON controls or to route it to the musicians on stage. The PMP Series comes with a POWER AMP INSERT connection that is provided for various applications. This connection enables you to use the power amplifier of the device to amplify the output signal of another preamp.



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For example, it is possible to connect a larger mixer or preamp output (line signal) of an instrument amplifier. In this case, you only need an unbalanced, mono jack cable. Furthermore, it is possible to use the POWER AMP INSERT as a conventional insert to add a compressor or graphic equalizer to the signal path, for instance. Here, a balanced, stereo jack cable is required and the assignment of tip and ring needs to be observed according to Figure 4.

5 (see Chapter 4.2 "Audio Connections"). In this case, the ring is the so-called Send, which is connected to the input of the additional device, and the tip is referred to as Return, which is connected to the output of the additional device. Lastly, it is possible to tap the output signal of the device's mixer section from the POWER AMP INSERT in order to use a second, external power amp. A balanced, stereo jack cable is required with the ring (not the tip) connected to the input of the external power amp. If you want to use the internal and external power amps at the same time, just wire the connector's ring and tip together. The FOOTSWITCH jack is for a standard footswitch. You can activate an "effect bypass", thereby muting the effects processor. Use a dual foot switch for the PMP5000, so that you can enable/disable FX1 and FX2 independently of each other. In this case, the tip of the 1/4" plug controls FX1, and the ring FX2.

PMP3000/PMP5000: The MONO OUT is for connecting a subwoofer. The PMP5000 has the additional possibility of setting the low-frequency range for the subwoofer. Use the SUB FILTER control to adjust the frequency. The FX SEND connector can be used to route the FX SEND signal from the input channel, for example, to the input of an external effects device. Since the PMP5000, both FX has two FX controls per input signal (see SEND 1+2 are present at one jack. Please note: The SEND signal is in parallel with the FX SEND jacks and with the effects processor, so that both can be controlled together by one control. For the FX signals, use a 1/4" stereo plug connected as follows: FX1 = tip; FX2 = ring The PHONS/CTRL connector allows you to connect a pair of stereo headphones or an (active) monitor speaker. 2.5 Rear panel The mains connection is via a standard IEC receptacle. An appropriate power cord is supplied with the unit.

FUSE HOLDER. Before connecting the unit to the mains, ensure that the voltage setting matches your local voltage. Blown fuses should only be replaced by fuses of the same type and rating. Please also read the information given in the "SPECIFICATIONS". Use the POWER switch to put your PMP into operation.

The POWER switch should always be in the "Off" position before connecting your unit to the mains. Please note: The POWER switch does not fully disconnect the unit from the mains. Unplug the power cord completely when the unit is not used for prolonged periods of time. SERIAL NUMBER. This is where you find the cooling fan of the unit.

The PMP5000 has two cooling fans. OUTPUT A (LEFT) provides either the left stereo main signal or the monitor signal in mono, depending on the operating mode selected (see). NEVER use this output in bridged mono mode. OUTPUT B (RIGHT/BRIDGE) provides either the right stereo main signal, the main mix signal (mono) or the bridged mono signal, depending on the operating mode selected. In BRIDGE mode always connect only one loudspeaker with an impedance of at least 8 to the OUTPUT B jack! NEVER use OUTPUT A in BRIDGE mode! In all other operating modes the impedance of the connected loudspeaker must not fall below 4 . 3 DIGITAL EFFECTS PROCESSOR 24-BIT MULTI-EFFECTS PROCESSOR This built-in effects module produces high-grade standard effects such as reverb, chorus, flanger, delay and various combination effects. The integrated effects module has the advantage of requiring no wiring. This way, the danger of creating ground loops or uneven signal levels is eliminated at the outset, completely simplifying the handling. These effect presets are designed to be added to dry signals. Turn down the FX controls in those channel strips whose signals you don't wish to process.

8 3 DIGITAL EFFECTS PROCESSOR EUROPOWER PMP1000/PMP3000/PMP5000 4 INSTALLATION 4.1 Mains connection The mains connection is made using the enclosed power cord and a standard IEC receptacle. It meets all of the international safety certification requirements. Blown fuses must be replaced by fuses of the same type and rating. Please make sure that all units have a proper ground connection. For your own safety, never remove or disable the ground conductor from the unit or of the AC power cord. Fig. 4.3: XLR connectors 4.2 Audio connections The inputs and outputs of your BEHRINGER EUROPOWER are unbalanced 1/4" mono jacks--except for the mono channel line inputs, which are balanced 1/4" stereo jacks.

Of course, all inputs and outputs work with both balanced and unbalanced connectors. The tape in and outputs are on RCA connectors. Please ensure that only qualified personnel install and operate the PMP. During installation and operation, the user must have sufficient electrical contact to earth. Electrostatic charges might affect the operation of the unit.

Fig. 4.4: 1/4" mono plug for footswitch Fig. 4.1: 1/4" TS connector Fig.

4.5: Stereo 1/4" TRS connector for power amp ISR connection Fig. 4.2: 1/4" TRS connector 4 INSTALLATION 9 EUROPOWER PMP1000/PMP3000/PMP5000 4.3 Loudspeaker connections Your power mixer is equipped with high-quality loudspeaker connectors (compatible to Neutrik® Speakon®), which ensure safe and trouble-free operation. The Speakon® connector was especially developed for high-power loudspeakers. Once it is plugged in, it safely locks into position and cannot be accidentally disengaged. It prevents the occurrence of electrical shock and ensures the correct polarity. Each of the loudspeaker jacks carries only the assigned single signal (see the information given on the rear panel of the power mixer). Fig.

4.7: Speakon® pin assignment Fig. 4.6: Professional speaker connector with polarity allocation Please be sure to only use commercial Speakon® cables (type NL4FC) for connecting your loudspeakers to the power mixer. Please check the pin assignment of your loudspeakers and cables dependent on the PMP speaker output you choose. EUROPOWER PMP1000/PMP3000/PMP5000 OUTPUT A MAIN L MONITOR MONO OUTPUT B OUTPUT B MAIN R MONO MONO BRIDGE 1+ x x x x 1x x x x 1+ x x x 1x x x x 2+ x 22+ 2- Tab. 4.1: Polarity configuration of speaker connectors 10 4 INSTALLATION EUROPOWER PMP1000/PMP3000/PMP5000 5 WIRING EXAMPLES Fig. 5.2: Bridged mono operation This illustration shows the power mixer with a sub-woofer connected to OUTPUT B.

For a bridged mono operation to must be set to OUTPUT B, the AMP MODE selector switch its lower position "BRIDGE". A separate stereo power amp (BEHRINGER EUROPOWER EP1500) connected to the preamp main outputs delivers the stereo main signal.



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Two active monitor speakers for on-stage operation are connected to the preamp monitor output. Fig. 5.

1: Stereo operation must be set For stereo operation the POWER AMP switch to its upper position (MAIN or MAIN L/MAIN R). Outputs A and B provide the stereo main signal for passive speakers. The preamp monitor output is connected to two parallel active speakers, which are used as on-stage monitors. Use the footswitch to enable/disable the effects processor. 5 WIRING EXAMPLES 11 EUROPOWER PMP1000/PMP3000/PMP5000 Fig.

5.3: Dual mono operation must For a dual mono operation, the AMP MODE switch be set to its center position (MON1/MONO for PMP3000/PMP5000 or MON for PMP1000)! The two loudspeaker outputs provide the main and the monitor signals, separately from each another. Each of these signals is then sent to two speakers wired in parallel. Fig. 5.4: Standard set-up (example) The illustration shows just one channel configuration possible, comprising mono and stereo sources and additionally the tape input/output for recording the mix signal or feeding in a playback signal. 12 5 WIRING EXAMPLES EUROPOWER PMP1000/PMP3000/PMP5000 Fig. 5.5: Expanded set-up This application is an expanded set-up based on the standard set-up as shown in fig. 5.

4, and provides additional connection options. Again, this is just an example, which can be expanded in various ways. 5 WIRING EXAMPLES 13 EUROPOWER PMP1000/PMP3000/PMP5000 6 SPECIFICATIONS PMP1000 MICROPHONE INPUTS Type Mic E.I.N. (20 Hz - 20 kHz) @ 0 source resistance @ 50 source resistance @ 150 source resistance Frequency response Gain Max. input level Impedance Signal-to-noise ratio Distortion (THD+N) MONO LINE INPUTS Type Impedance Max. input level STEREO LINE INPUTS Type Impedance Max. input level EQUALIZER Low Mid High CD/TAPE INPUT Type Impedance Max. input level PRE AMP OUTPUTS MAIN Type Impedance Max.

output level MONITOR Type Impedance Max. output level STEREO OUTPUTS Type Impedance Max. output level Type Impedance Max. output level MAIN MIX SYSTEM DATA Noise MAIN MIX @ -∞ Channel fader -∞ MAIN MIX @ 0 dB Channel fader -∞ MAIN MIX @ 0 dB Channel fader @ 0 dB LOUDSPEAKER OUTPUTS Type Load impedance MAIN L/R MONITOR/MAIN MONO MAIN MONO/MAIN MONO BRIDGE PMP3000 XLR, electronically balanced, discrete input circuit -134 dB / 136 dB A-weighted -131.5 dB / 134 dB A-weighted -129 dB / 131 dB A-weighted < 10 Hz - 155 kHz (-1 dB) < 10 Hz - > 200 kHz (-3 dB) +10 dB, +60 dB +12 dBu @ +10 dB gain approx.

2.6 k balanced / 1.3 k unbalanced 109 dB / 112 dB A-weighted (0 dBu IN @ +10 dB gain) 0.002% / 0.0018% A-weighted 1/4" TS connectors, balanced approx.

20 K +21 dBu 1/4" TRS connectors, unbalanced > 3.6 k +22 dBu 80 Hz / ±15 dB 2.5 kHz / ±15 dB 12 kHz / ±15 dB RCA approx. 3.6 k, balanced +21 dBu PMP5000 100 Hz - 8 kHz / ±15 dB 1/4" TRS connectors, unbalanced approx. 150 , unbalanced +21 dBu 1/4" TRS connectors, unbalanced approx. 150 , unbalanced +21 dBu RCA approx. 1 k +21 dBu 1/4" TRS connectors, unbalanced approx. 150 , unbalanced +21 dBu RCA approx. 1 k +21 dBu -102 dB/-106 dB A-weighted -88 dB/-91 dB A-weighted -84 dB/-86 dB A-weighted -96 dB/-100 dB A-weighted -86 dB/-89 dB A-weighted -83 dB/-85 dB A-weighted compatible to NEUTRIK SPEAKON 4-8 4-8 4-8 8 - 16 ® ® 14 6 SPECIFICATIONS EUROPOWER PMP1000/PMP3000/PMP5000 PMP1000 DSP

Converter Dynamics D/A Sampling rate Delay Time Signal run time (Line In à Line Out) DISPLAY Type AMPLIFIER OUTPUT POWER RMS @ 1 % THD (sine wave), both channels driven: 8 per channel 4 per channel RMS @ 1 % THD (sine wave), bridged mode: 8 Peak Power, both channels driven: 8 per channel 4 per channel Peak Power, bridged mode: 8 POWER SUPPLY (EU/A) Mains voltage Power consumption Fuse Mains connector POWER SUPPLY (UL) Mains voltage Power consumption Fuse Mains connector POWER SUPPLY (J) Mains voltage Power consumption Fuse Mains connector POWER SUPPLY (CN) Mains voltage Power consumption Fuse Mains connector PHYSICAL/WEIGHT Dimensions (H x W x D) Weight 90 W 130 W 200 W 135 W 250 W 500 W 100 - 240 V~, 50 / 60 Hz 500 W T 5 A H 250 V 24-Bit Delta-Sigma, 64/128-times oversampling 90 dB 46.

875 kHz max. 5 s approx. 1.5 ms dual 7-segment LED 2 dual 7-segment LED PMP3000 PMP5000 215 W 450 W 900 W 300 W 600 W 1200 W 230 V~, 50 Hz 1000 W T 6,3 A H 250 V Standard IEC receptacle 120 V~, 60 Hz 1000 W T 10 A H 250 V Standard IEC receptacle 100 V~, 50 / 60 Hz 1000 W T 10 A H 250 V Standard IEC receptacle 220 V~, 50 Hz 1000 W T 6,3 A H 250 V Standard IEC receptacle 4 7/8" x 18 3/4" x 18 1/8" 122 x 476 x 460 mm 23.815 lb. 10.8 kg 4 7/8" x 23 1/2" x 19 1/2" 122 x 596 x 496 mm 28.665 lb. 13.3 kg 100 - 240 V~, 50 / 60 Hz 500 W T 5 A H 250 V 100 - 240 V~, 50 / 60 Hz 500 W T 5 A H 250 V 100 - 240 V~, 50 / 60 Hz 500 W T 5 A H 250 V 4 7/8" x 15 3/8" x 16 3/4" 122 x 390 x 425 mm 15.

435 lb. 8 kg 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. 6 SPECIFICATIONS 15 EUROPOWER PMP1000/PMP3000/PMP5000 7 WARRANTY § 1 OTHER WARRANTY RIGHTS AND NATIONAL LAW 1.

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3. Warranty claims other than those indicated above are expressly excluded. § 4 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.

§ 5 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 under the terms of this warranty will be repaired or replaced. 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, crossfaders, potentiometers, keys/buttons, tubes, guitar strings, illuminants and similar parts.

4. Damages/defects caused by the following conditions are not covered by this warranty: improper handling, 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. @@5. @@6. @@7. @@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. § 6 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. § 7 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. * Customers in the European Union please contact BEHRINGER Germany Support for further details. Technical specifications and appearance subject to change without notice. The information contained herein is correct at the time of printing.

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36-38, 47877 Willich-Münchheide II, Germany. Tel. +49 2154 9206 0, Fax +49 2154 9206 4903 16 7 WARRANTY EUROPOWER

PMP1000/PMP3000/PMP5000 FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION Responsible party name: Address: Phone/Fax No.: hereby declares that the product BEHRINGER USA, Inc. 18912 North Creek Parkway, Suite 200 Bothell, WA 98011, USA Phone: +1 425 672 0816, Fax: +1 425 673 7647 EUROPOWER PMP1000/3000/5000 complies with the FCC rules as mentioned in the following paragraph: 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. This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Important information: Changes or modifications to the equipment not expressly approved by BEHRINGER USA can void the user's authority to use the equipment. 17.



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