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Guardian Audio



B80X

Owners Manual

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IMPORTANT SAFETY INSTRUCTIONS



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

AVIS: RISQUE DE CHOC ELECTRIQUE. NE PAS OUVRIR.

WARNING: CONNECT ONLY TO MAINS SOCKET WITH PROTECTIVE EARTHING CONNECTION.



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 appliance.

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 a dry cloth.
7. Do not cover any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near 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 the 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. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for a long period of time.
13. 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.
14. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.
15. To completely disconnect this equipment from the AC Mains, disconnect the power plug from the AC receptacle.
16. The mains plug of the power supply cord shall remain readily operable.

IMPORTANT SERVICE INSTRUCTIONS

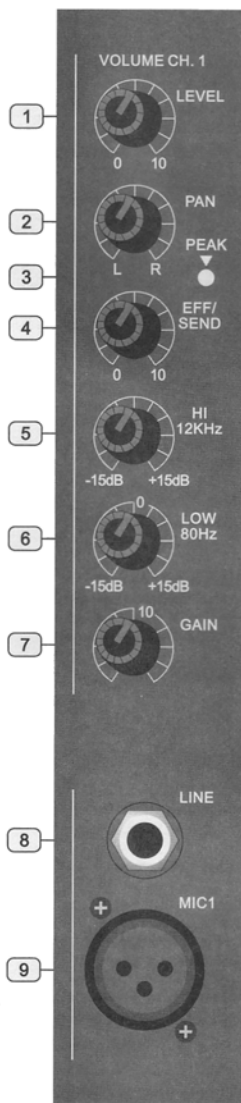
CAUTION: These servicing instructions are for use by qualified personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the Operating Instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

1. Security regulations as stated in the EN 60065 (VDE 0860 / IEC 65) and the CSA E65-94 have to be obeyed when servicing the appliance.
2. Use of a mains separator transformer is mandatory during maintenance while the appliance is opened, needs to be operated and is connected to the mains.
3. Switch off the power before retrofitting any extensions, changing the mains voltage or the output voltage.
4. The minimum distance between parts carrying mains voltage and any accessible metal piece (metal enclosure), respectively between the mains poles has to be 3 mm and needs to be minded at all times. The minimum distance between parts carrying mains voltage and any switches or breakers that are not connected to the mains (secondary parts) has to be 6 mm and needs to be minded at all times.
5. Replacing special components that are marked in the circuit diagram using the security symbol (Note) is only permissible when using original parts.
6. Altering the circuitry without prior consent or advice is not legitimate.
7. Any work security regulations that are applicable at the location where the appliance is being serviced have to be strictly obeyed. This applies also to any regulations about the work place itself.
8. All instructions concerning the handling of MOS - circuits have to be observed.

NOTE:



SAFETY COMPONENT (MUST BE REPLACED BY ORIGINAL PART)



1. LEVEL

This adjusts the volume of the channel.

2. PAN

The PAN control changes the balance of post fader signal to the left and right main busses. In the center position equal amounts go to left and right busses.

3. PEAK

This red LED indicates peak signal level at the insert return point, premaster level. It illuminates at approximately 5dB before clipping.

4. EFF/SEND

This controls the amount of effects sent to the main bus.

5. HI

This controls the amount of high frequency sent to the main bus.

6. LOW

This controls the amount of low frequency sent to the main bus.

7. GAIN

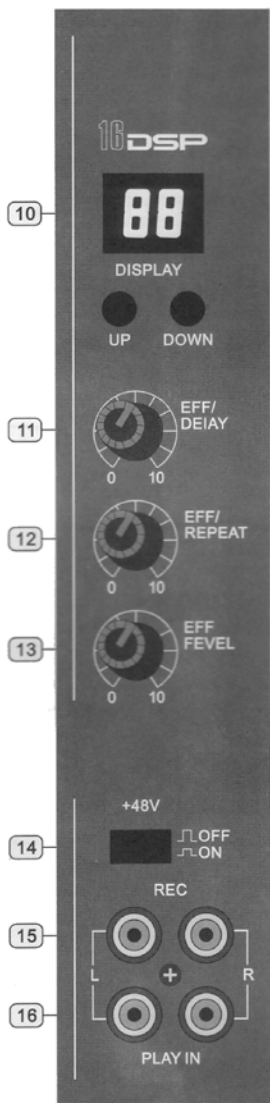
This controls adjusts sensitivity from -60dB to -20dB.

8. LINE

This is an unbalanced mic or line high impedance input jack.

9. MIC

This is an electronically balanced low impedance female mic input jack.



10. DSP

The UP and DOWN button scroll through the 16 digital effects.

11. EFF/DELAY

This adjusts the amount of time between repeats of the delay.

12. EFF/REPEAT

This adjusts the amount repeats of the delay.

13. EFF/LEVEL

This adjusts the level of the effects.

14. +48V

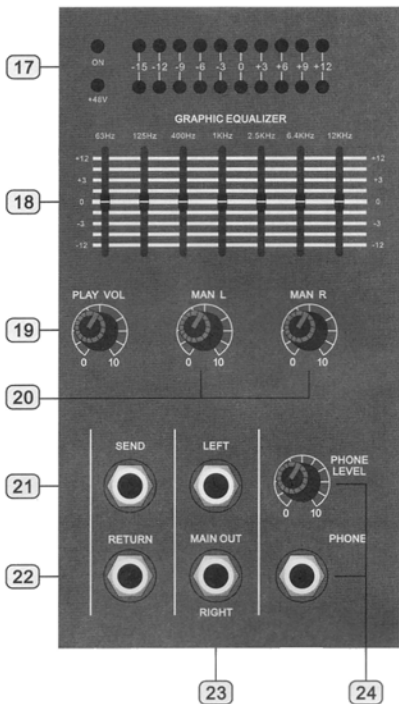
This engages 48 volt phantom power across all channels.

15. REC

These are record out jacks.

16. PLAY

These are playback input jacks.



17. OUTPUT LED

This LED Display indicates the output level of the preamp section.

18. GRAPHIC EQUALIZER

The 7 band stereo graphic equalizer helps to color the overall sound of the mix.

19. PLAY VOL

This adjusts the input level for the TAPE IN.

20. MAIN L - MAIN R

These adjust the level of output for the left and right amplifiers.

21. SEND

This is to connect to external effects input.

22. RETURN

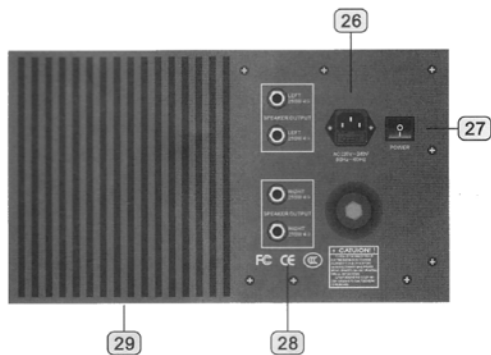
This is to connect to external effects output.

23. MAIN OUT

This is to connect to external amplifier.

24. PHONE

Headphones can be connected and the level controlled here.



26. AC CDRD

AC 115V / 60Hz FUSE 3A

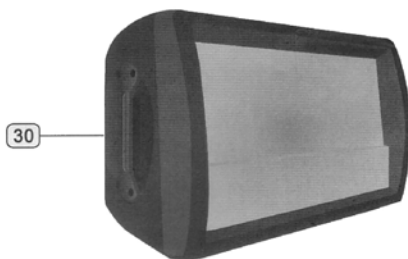
27. POWER SWITCH ON/OFF

28. SPEAKER OUTPUT JACK

Connect a minimum of 4 ohms to the left channel.
Connect a minimum of 4 ohms to the right channel.

29. BNILT-IN ALUMINIUM COOLER

30. PLASTIC HANDLE



SPECIFICATIONS

MIXER SECTION

1.INPUT CHANNEL SENSITIVITY	MIC..... -60dB STEREO CH. INPUT..... -40dB EFX SEND.....-20dB EFF,RETURN.....-20dB
2.OUTPUTS	4V MAX
3.OUTPUTS	-80dB
4.PARMETRIC EQ.	HI.....+15dB/10KHz MID.....±15dB/250Hz~6KHz LOW.....±15dB/60Hz

MIXER SECTION

T.H.D.	0.1% below (1KHz Full Power)
POWER REQUIREMENTS	AC 220V/50Hz or 120V/60Hz
POWER CONSUMPTION	350W

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
2) This device must accept any interference receiver,
including interference that may cause undesired
operation.

CONNECTIONS

FIGURE 5

UNBALANCED 1/4" PLUG



FIGURE 5-1

SLEEVE:GROUND(shield)

FEMALE 3 PIN CONNECTOR

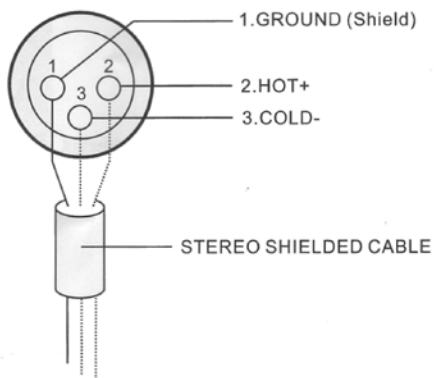


FIGURE 5-2

BLOCK DIAGRAM

