

# OPERATING INSTRUCTION



*Powered Mixer*

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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

1.POWER OUTPUTS	BM8900 2x100w((4!))
2.T.H.D.	0.1% below(1KHZ Full Power)
3.POWER REQUIREMENTS	AC220V/50Hz or 120V/60Hz

**This device complies with Part 15 of the FCC Rules. Operation is subject of the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference receiver, including interference that may cause undesired operation.**

FIGURE 5

UNBALANCED 1/4" PLUG

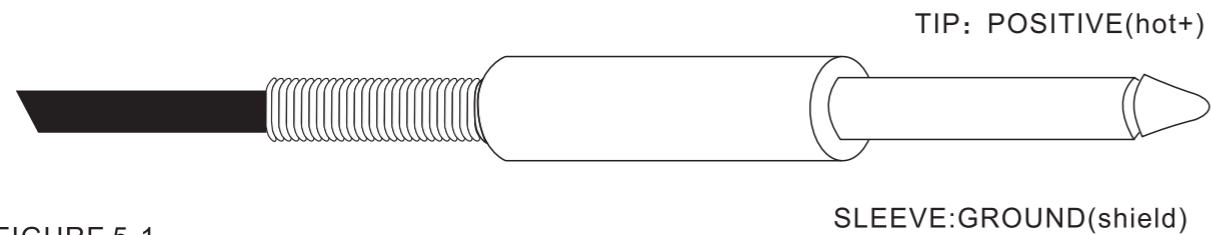


FIGURE 5-1

FEMALE 3 PIN CONNECTOR

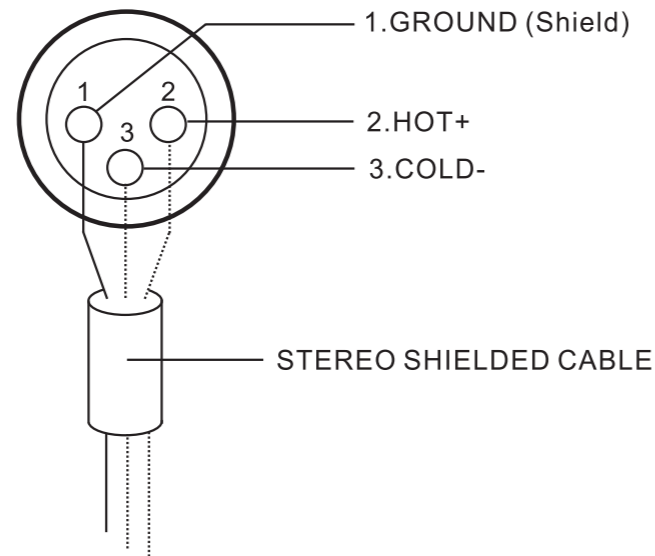


FIGURE 5-2

**IMPORTANT SAFETY INSTRUCTIONS**

**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

**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 OUVRIIR.

**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.

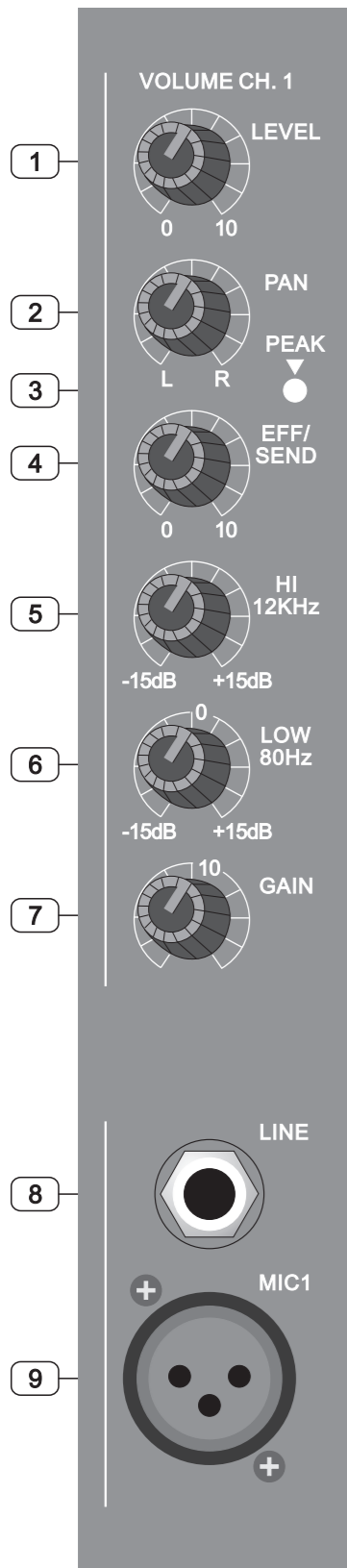
1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not cover any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near 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. VOL**

This is the function to adjust the volume of signal connection into each channel and adjust the volume of output, together with master fader. Normal operating position is at the “0” mark, providing 4dB of gain above that point, if required.

**2. PAN**

The pan control sends continuously variable amounts of the post fader signal to either the left or right main busses. In the center portion equal amounts of signal are sent to the left and right busses.

**3. PEAK**

A red LED indicates a signal level at the insert return point, premaster fader, It illuminates at approximately 5dB below clipping.

**4. EFF/SEND**

Use this control when you want to get effect sound by adjustment of input signal. When you don't use external sound digital delay will working which installed inside.

**5. HI**

Control the high frequency tone of each channel. Always set this control to the 12 o'clock position, but you can control the high frequency tone according to the speaker, the conditions of listening position and listener's taste. Clockwise rotation of the control increases level.

**6. LOW**

Control the low frequency tone of each channel. Always set this control to the 12 o'clock position, but you can control the low frequency tone according to the speaker, the conditions of listening position and listener's state. Clockwise rotation of the control increase the level.

**7. GAIN**

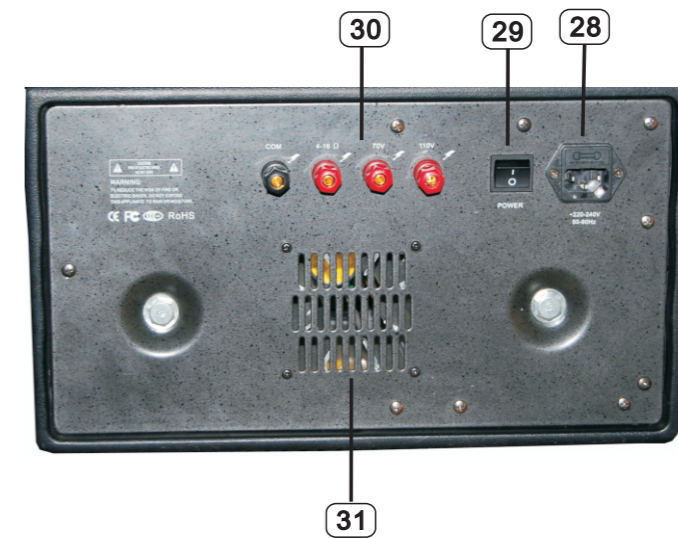
Adjusts input sensitivity from -60dB to -20dB with the -20dB pad switch in the out position, and -40dB to 0dB when the -20dB pad switch is pushed.

**8. LINE**

The unbalanced Mic input is provided for the use of a unbalance mic and is designed to accept a unbalanced high impedance input signal.

**9. MIC**

Electronially Balanced inputs acceptable a standard XLR male connector



**28. AC CDRD**

AC 115V / 60Hz	FUSE 8A
AC 220V / 50Hz	FUSE 3A
AC 230V / 60Hz	FUSE 3A

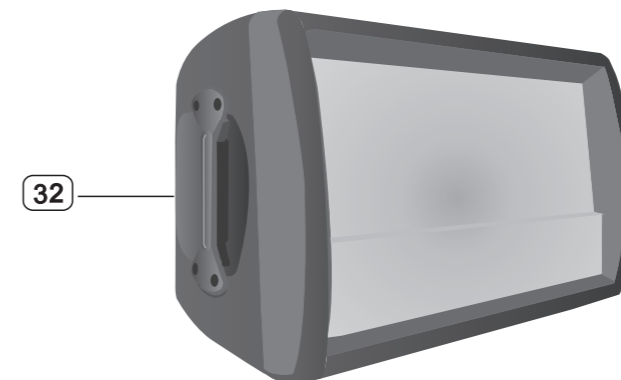
**29. POWER SWITCH ON/OFF**

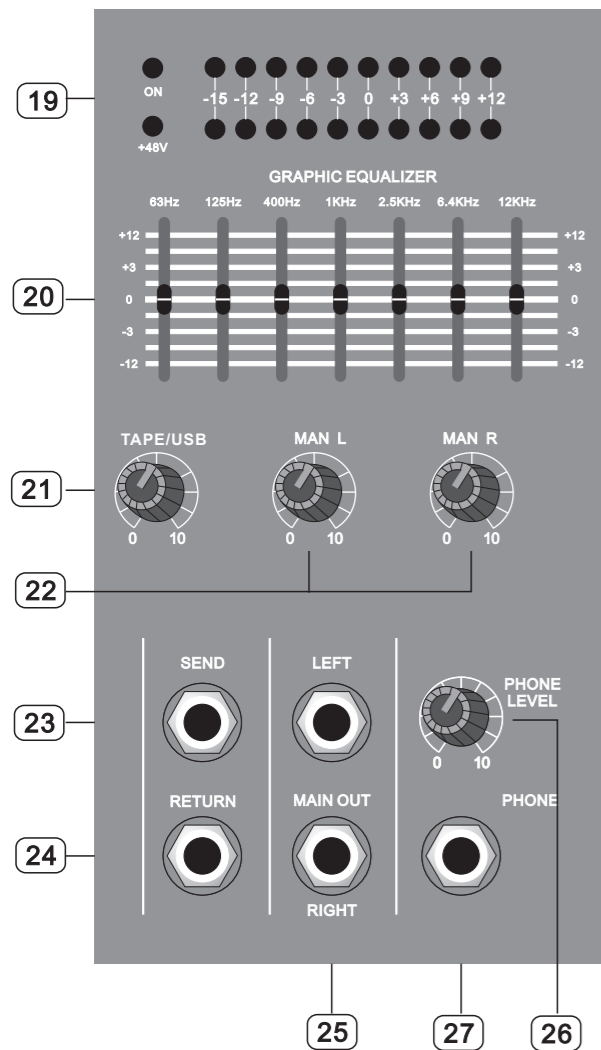
**30. SPEAKER OUTPUT JACK**

This is same functions as below but the using jack is different. 4! 100W

**31. BUILT-IN ALUMINIUM COOLER**

**32. PLASTIC HANDLE**





**19. OUTPT LEVEL INDICATOR**

This is level meter which show output levels of left & right channel condition on the way operation. Therefor. you can see output condition thru this master level indicator. The LED shows power is turned "ON" or "OFF" PHANTOM, +48V LED .

**20. STEREO GRAPHIC EQUALIZER**

7 -band equalizer is provided for tone control over each frequency, and for precise high quality sound by final tone control.

**21. TAPE/USB LEVEL**

You can adjust the volume of TAPE IN signal by this when connecting TAPE

**22. MAIN VOLUME L/R**

These are used for adjusting volume of headphone out put.

**23. SEND**

These are to be connected with external digital reverb & effect equipment.

**24. RETURN**

These are to be connected with external digital reverb & effect equipment.

**25. MAIN OUTPUT L/R**

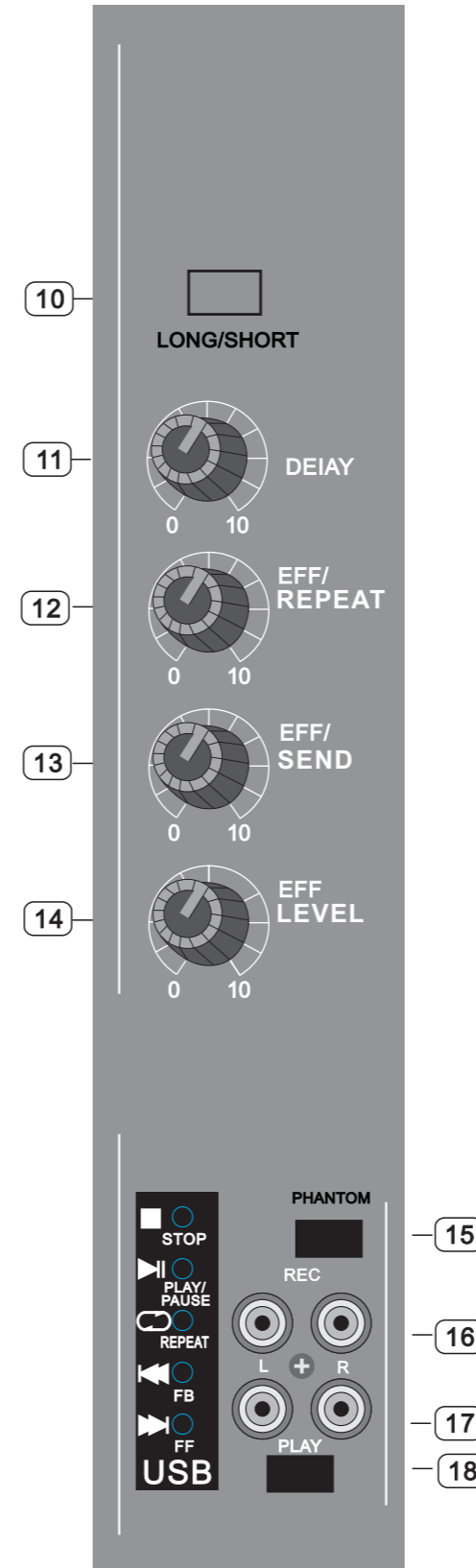
In this product the final confined sound Can be sent to main amplifier.

**26. PHONE LEVEL**

This is used for adjusting volume of finally mixer output(L/R) and sending the relevant signals to input channel of main amplifier.

**27. PHONE**

You can monitor working condition by sound thru the headphone.



**10. LONG/SHORT**

DELAY EFFECT. LONG/SHORT shift.

**11. DELAY**

Adjusting the lasting time of echo repeat. Position 5 is the most Effective.

**12. EFF/REPEAT**

This is used for adjusting the time interval of echo repeat. The middle postions (5) may be most effective.

**13. EFF/SEND**

Adjust signal level of echo repeat and external effector.

**14. EFF/LEVEL**

Using by this control, you can adjust signal level of echo repeat & exteral effector.

**15. +48V PHANTOM POWER**

For condenser Microphone.

**16. REC**

This jack is to be connected with cassette for recording purpose.

**17. PLAY**

USB player ,for MP3 play.

**18. USB**

HOST(USB2.0) Function (MAX 500 MA) used for U disk,MP3, hard Disc & flash disc reader,etc.

# BLOCK DIAGRAM

