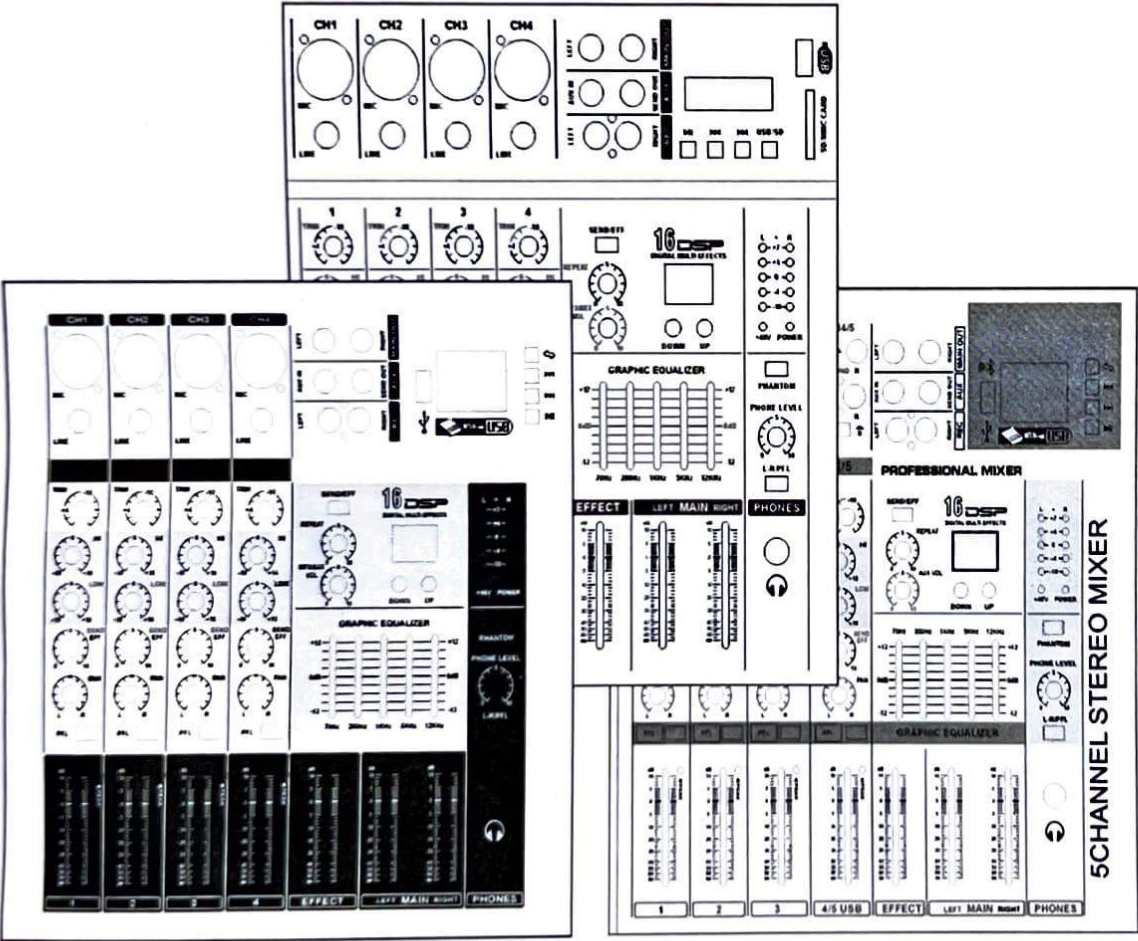


4,6,8,10,12 CHANNEL MIC/LINE MIXER



OWNERS MANUAL

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Ultra low noise 4/6/8/10/12 Channel Mic / Line Mixer

- ▲ 4/6/8/10/12 Mono Input Channels with gold plated XLR and balanced Line Inputs
- ▲ Ultra-low noise discrete Mic Preamps with +48 V Phantom Power
- ▲ Balanced Inputs for highest signal integrity
- ▲ Ultra-musical 2-band EQ on all channels
- ▲ Peak LEDs all Mono Channels
- ▲ 1 Aux Send per channel for external effects and monitoring
- ▲ Simulate effect (16 DSP)
- ▲ Master Mix Output and rec output
- ▲ Highly accurate 5 segment Bar graph Meters
- ▲ Separate Master Mix Outputs

SAFETY INSTRUCTIONS

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



WARNING: To reduce the risk of fire or electrical 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

A. INPUT CHANNEL SECTION

1. BALANCE INPUT (MIC)

Electronically Balanced inputs acceptable standard XLR male connector. +48V phantom power available on each input Mic socket.

And this switch is on Rear phantom Power.

2. LINE INPUT

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

(This use for connection Deck, Turntable Keyboard ate...)

3. GAIN

This has a function which adjusts the input sensitivity of each channel in order to input the constant level of the signal.

4. HI EQ

This control gives you up to 15 dB of boost or cut at 12KHz and above, and it is also flat at the detent. Use it to add sizzle to cymbals, and an overall sense of transparency or edge to keyboards, vocals, guitar, and bacon frying.

Turn it down a little to reduce sibilance, or to hide tape hiss.

5. LOW EQ

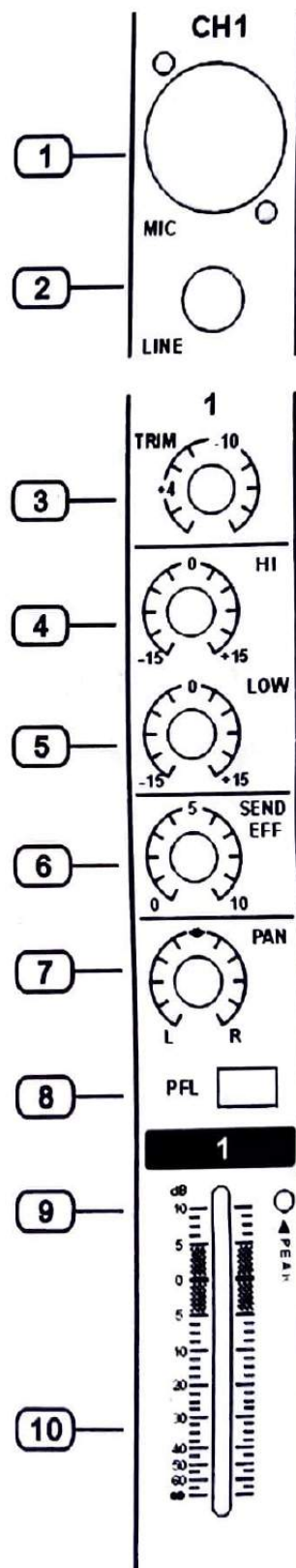
This control gives you up to 15 dB boost or cut at 80Hz and below. This circuit is flat (no boost or cut) at the center detent position. This frequency represents the punch in bass drums, bass guitar, fat sixth parches, and some really serious male singers.

6. EFF

Use this control to set the effect level you want to achieve. The EFF control adjusts the input signal to give you a desired effect. If an external source is not in use, the EFF will function through the internal digital delay.

7. PAN

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



8. PFL

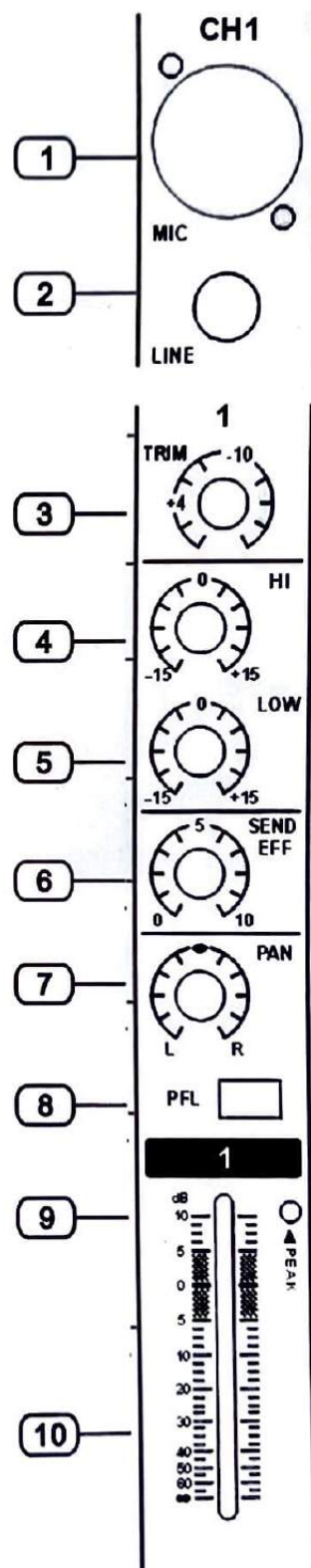
Used for headphone monitoring of each channel, regardless of the main mix. The PFL (Pre- Fader Listen) function allows the user to listen to the level before fader control; Subsequent adjustment of the fader control (9) will not modify the level the control is useful during channel gain adjustment.

9. PEAK

This is the lamp which indicates the input signal level of this Appliance (regardless of output) when GAIN volume is adjusted.

10. CHANNEL FADER

This is function to adjust the volume of signal connection into each channel and adjust the volume of output together with master fade. Usually operating position is at the "0" mark, providing 4dB of gain above than point, it required.



B. MASTER SECTION

11. SEND / EFFECT

When this button is up, Post signal work as send signal. When this button is down, post signal work as EFFECT signal

12. AUX SEND / RETURN

This is used for adjusting volume of AUX sound. When sending and return AUX signal to used jack

13. REPEAT

This is used for adjusting frequency of echo repeat. Since too much echo repeat may cause a howl. Please adjust frequency properly

14. STEREO GRAPHIC EQUALIZER

2X5-band equalizer is provided for tone control over each frequency, and for precise high quality sound by final tone control

15. OUTPUT MAIN FADER (LEFT/RIGHT)

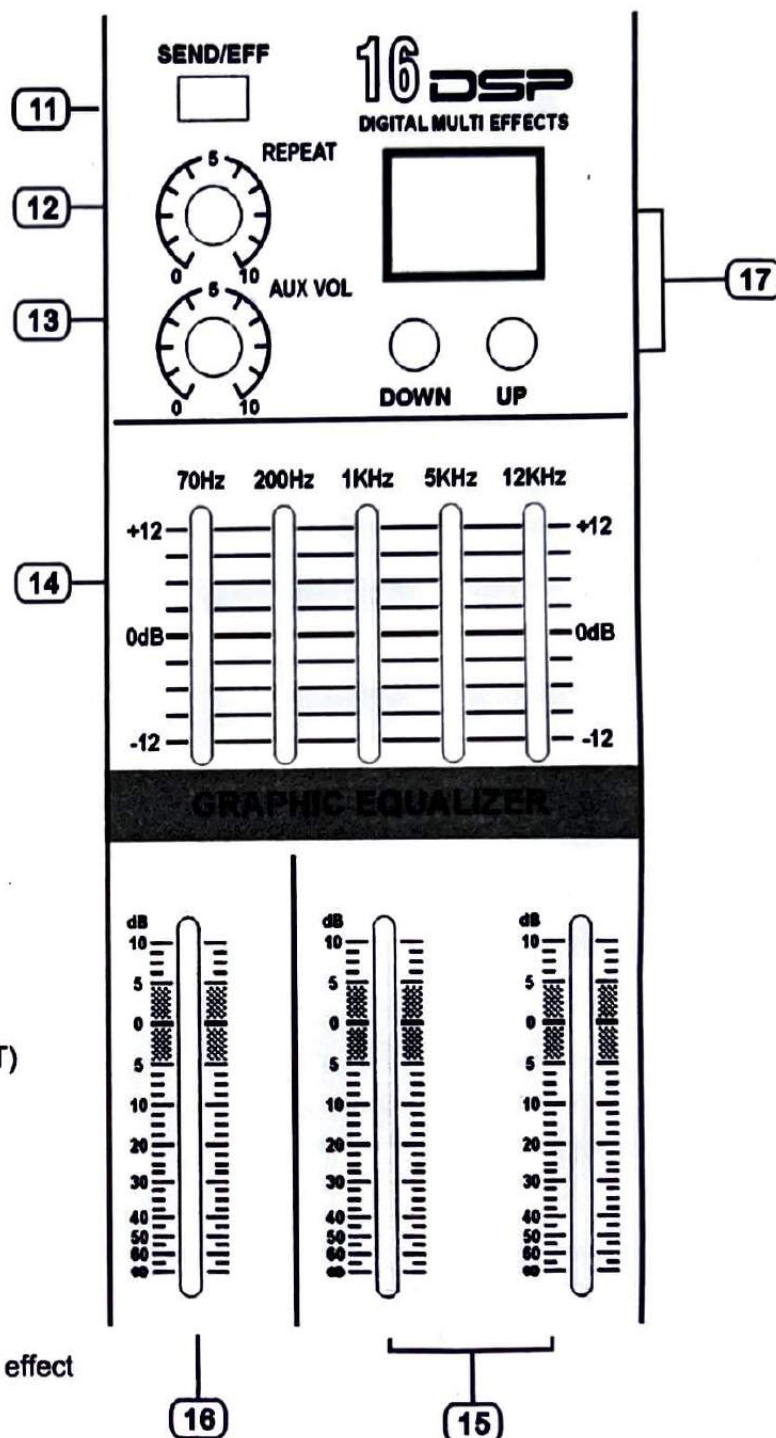
This is a master fader for adjustment for volume of left/right output. Unity gain is the tip their travel

16. EFFECT LEVEL

Using by this control, you can adjust signal level of echo repeat & external effect

17. DISPLAY

Please press the Keystroke up and down, and it will be gotten the perfect veverberative effect that you need. These function which has (16) effective posture can be turned up



18. OUTPUTS LEVEL INDICATOR

This is level meter which shows output levels of left right channel condition on the way of operation there fore you can see output condition through this master level indication

19. PHANTOM POWER SWITCH

Depressing this switch applies 48V DC across all microphone input channels connectors for remote powering of condenser microphones

20. HEADPHONE LEVEL

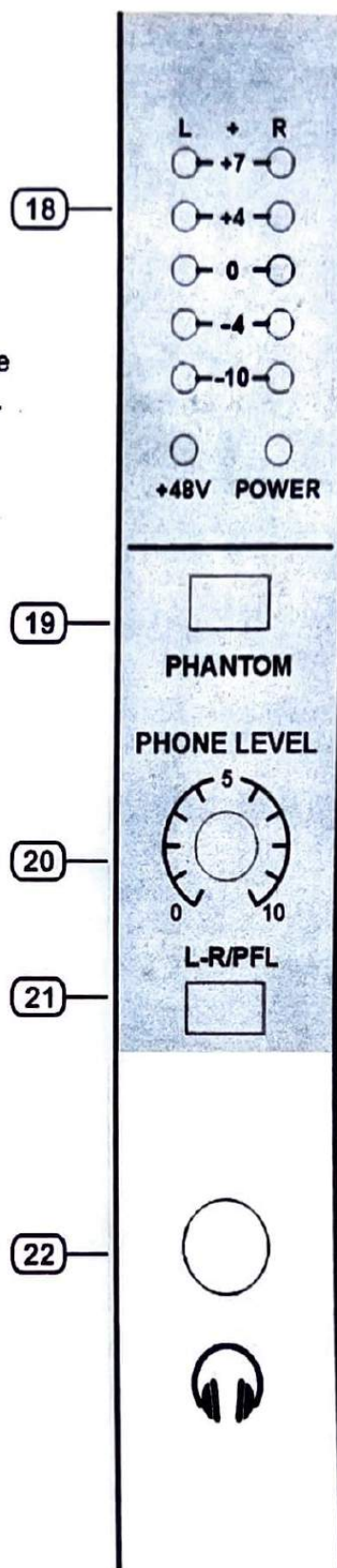
This is a single volume control sends the level to be the headphones and main monitors

21. PFL

When you want to monitor echo sound & external effectors sound, you can adjust this control thru the headphone

22. HEADPHONE JACK

You can monitor working condition by sound through the headphone



C. MIXER OUTPUT SECTION

23. RECRD PIN JACK

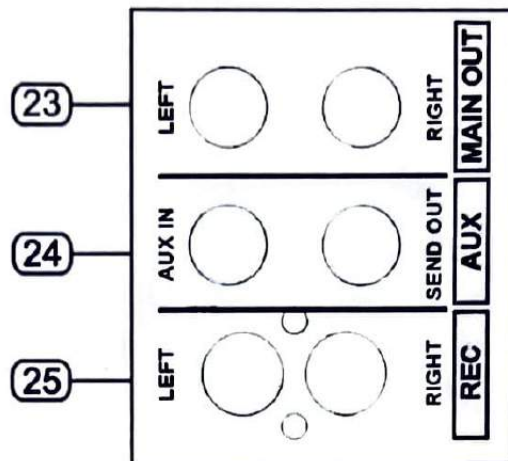
This jack is can be connected with cassette deck when recording the mixed input, CD signal

24. EFXSEND RETURN

This can be used to connect all kinds of effects form outside

25. OUTPUT JACK (LEFT / RIGHT)

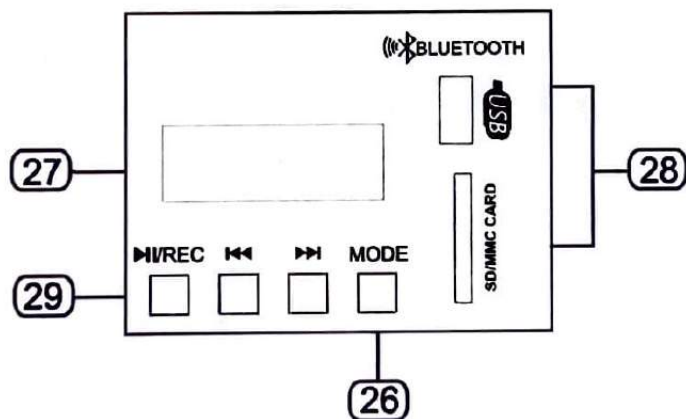
In this product, the final confirmed sound can be sent to main amplifier through XLR & 1 / 4 jack



26. MODE: USB/SD/BLUETOOTH

BLUETOOTH NAME: BLUETOOTH

27. DISPLAY



28. USB/SD SLOT

29. STOP/PLAY/REC FUNCTION KEYS

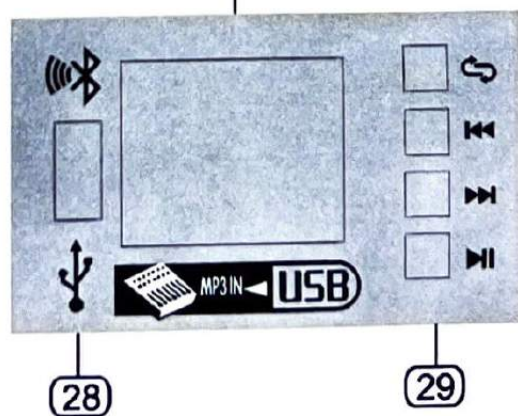
↻ Looping

⏮ Press this button, return to last song,
press and hold : decrease volume;

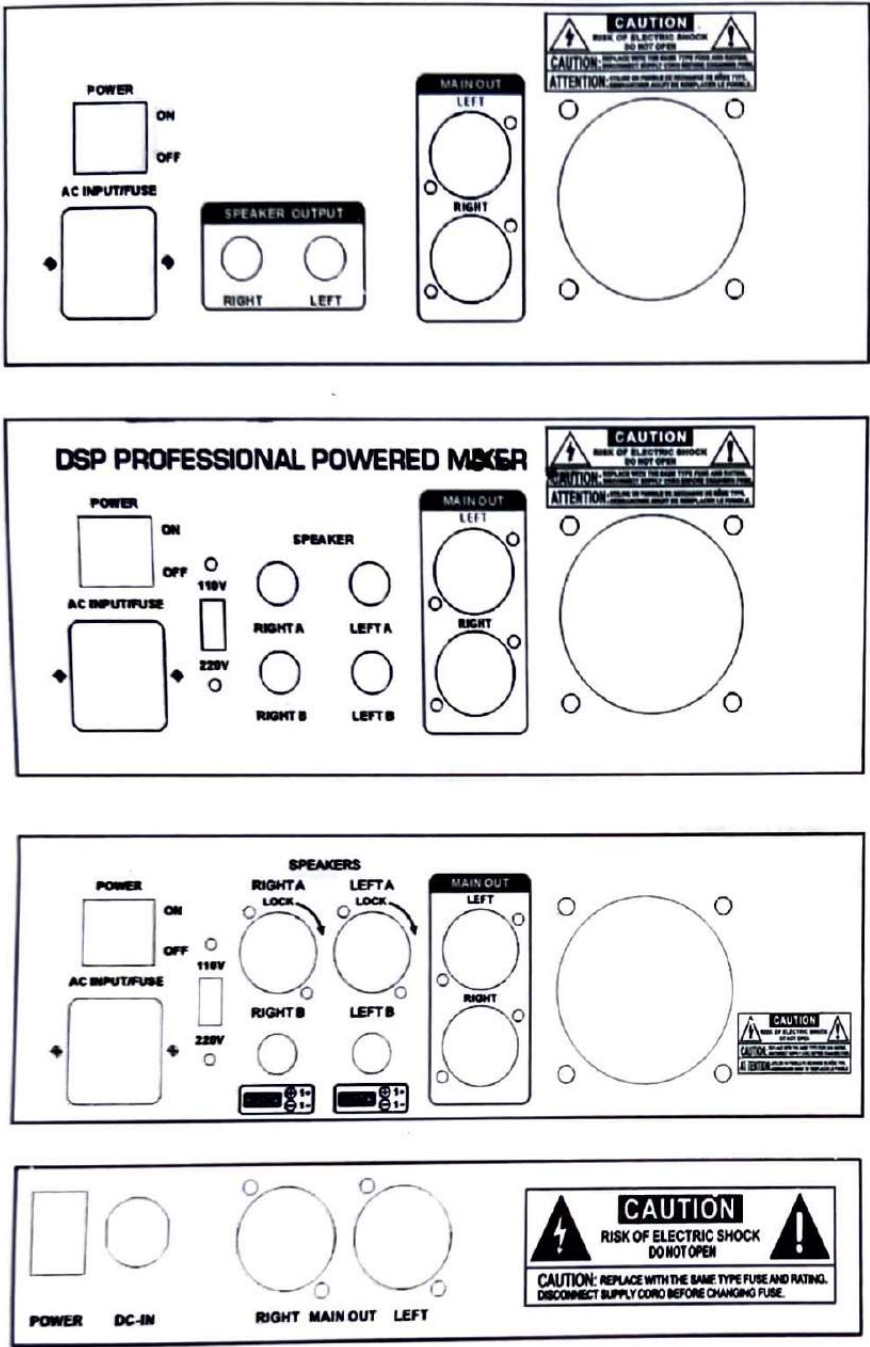
⏭ Press this button, to next song,
press and hold, increase volume;

⏸ Pause key

▶/REC: Insert U-DISK into slot, press and hold over 3 seconds,
start to record, press this button again to stop record,
save record files into U-disk in MP3 format



D. POWER SECTION



30.POWER SWITCH

Push marked (1).When you want to operate. The LED (SEE NO. 0) will be turned on when working

31.POWER JACK

This is out of connecting the power supply jack

32.SPEAKER JACK LEFT, RIGHT

This is same functions as below but the using jack is different

33.MAIN OUT

In this product, the final confirmed sound can be sent to main amplifier through XLR&1/4 jack

E. HOW TO OPERATE

1. Above all, it is necessary to confirm power voltage.
2. Make sure this appliance power switch is off when connecting the plug of power cord with outlet.
3. Set every controls to the positions stated belows to avoid loud blasts. Loud blasts may course damage to for your speaker system or yout rears when you are wearing headphone.

The master faders L-R, Sub faders 1-2,Effect fader & Each channel faders.

Gain control ----- Turn to the left completely
Hi, Mid,Low ----- Turn to the center position
EFX & Effect control ----- Turn to the left completely
Pan control ----- Turn to the center position

Set other turn to the left completely

4. Push power switch marked(1),then the LED will be turned on when start working.
5. Set Master faders L-R to the position between min & mid,after working.
6. Set a certain Channel faders which you want to use to the position between min & mid. After that, connect input section with exeternal source.
7. To make sound through external sources, turn the Gain control to the right.
8. Adjust tone controls in accordance with your taste.
9. Adjust between effect fader control towards max from min & Effect control to the right, When you want to get echo effect a certain channel .After set a certain channel, adjust Delay control & Repeat control. Then, you can get various echo effect sound.

FIGURE 5

UNBALANCED 1/4" PLUG

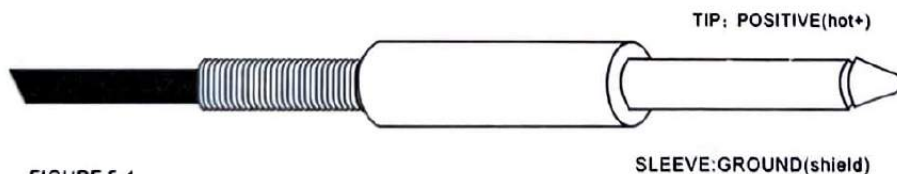


FIGURE 5-1

FAMALE 3 PIN CONNECTOR

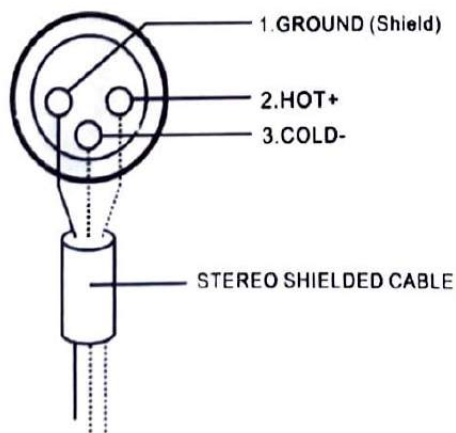


FIGURE 5-2

F. APPENDIX SPECIFICATIONS

Specifications

Mono Inputs

Mic Input B	electronically balanced, discrete input configuration
Andwidth	10Hz to 60 kHz ± 3 dB
Distortion(THD&N)	0.01% at +4dBu, 1kHz, Bandwidth 80 kHz
Mic E.I.N(22Hz-22kHz)	-129.5dBu, 150 Ohm source -117.3dBq, 150 Ohm source -132.0dBu, input shorted -122.0dBq, input shorted
TRIMrange	+10dB to 60dB
Line input	electronically balanced
Bandwidth	10Hz to 60 KHz ± 3 dB
Distortion(THD&N)	0.01% at +4dBu, 1kHz, Bandwidth 80kHz
Line level range	+10dBu to 4dBu
Equalization	
Hi Shelving	12kHz ± 15 dB
Mid Range	2.5kHz ± 15 dB
Lo Shelving	80Hz ± 15 dB

Master Mix section

Max Output	+22dBu balanced
Aux Send Max Out	+22dBu unbalanced
Control Room Out	+22 dBu unbalanced
Signal To Noise Ratio	+112dB, all channels at Unity Gain

Power supply

Mains Voltages	~ 120 V AC, 60Hz, ~ 240 V AC, 50Hz, ~ 220 V AC, 50Hz,
Output Power	$300\text{W} \times 2,4\Omega$