

PROFESSIONAL

MIXING CONSOLE



B6 (X)

ENGLISH B

OPERATING MANUEL

Ultra low noise 6、8、12、16 Channel Mic / Line Mixer

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- ▲ Mono Input Channels with gold plated XLRs and balanced Line Inputs
- ▲ Ultra-low noise discrete Mic Preamps with +48 V Phantom Power
- ▲ Extremely high headroom -offering more dynamic range
- ▲ Balanced Inputs for highest signal integrity
- ▲ Ultra-musical 3-band EQ on all channels
- ▲ Peak LEDs all Mono Channels
- ▲ 1 Aux Send per channel for external effects and monitoring
- ▲ Build in digital multi (16 DSP)
- ▲ Master Mix Output and rec output
- ▲ Highly accurate 10 segment Bargraph 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 at standard XL R male connector +48V phabtom Power available on each input Mic socket.

2.LINE INPUT

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

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

3.GAIN

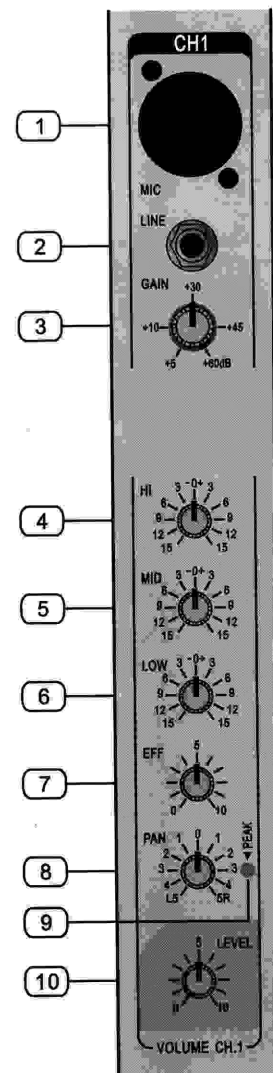
This has a function which adjusts the input sensitivity of each channel in order to input the constant level of the signal.

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.MID EQ

Short for "midrange", this knob provides 12dB of boost or cut, centered at 2.5KHz, also flat at the center detent, Midrange EQ is often thought of as the most dynamic, because the frequencies that define any particular sound are almost always found in this range. You can create many interesting and useful EQ changes by turning this knob down as well as up.



6.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 synth patches, and some really serious male singers.

7.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.

8.PAN

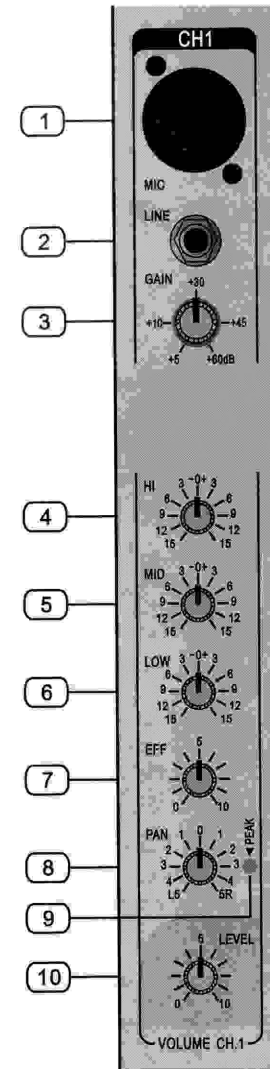
The pan control sends continuously variable amounts of the post fader signal to either the left or the right main busses. In the centre position, equal amounts of signal are sent to the left and right busses.

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 fader Normal operating position is at the "0" mark providing 4dB of gain above that point, if required.



B. STEREO CHANNEL SECTION

11.TAPE LEVEL

You can adjust the volume of TAPE in signal by this when connecting tape in.

12.EFFECT SEND

This is used for adjusting volume of echo sound, when sending echo sound to SEND jack in EFFECTS pane.

13.DELAY

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

14.REPEAT

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

15.PAN

By using this control, you can adjust echo sound and external effector sound between left and right.

16.EFFECT LEVEL

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

17.MASTER VOLUME (L/R)

This is used for adjusting volume of finally mixed out puts (L&R) and sending the relevant signals to input channel of main amplifier.

18.HEADPHONE LEVEL

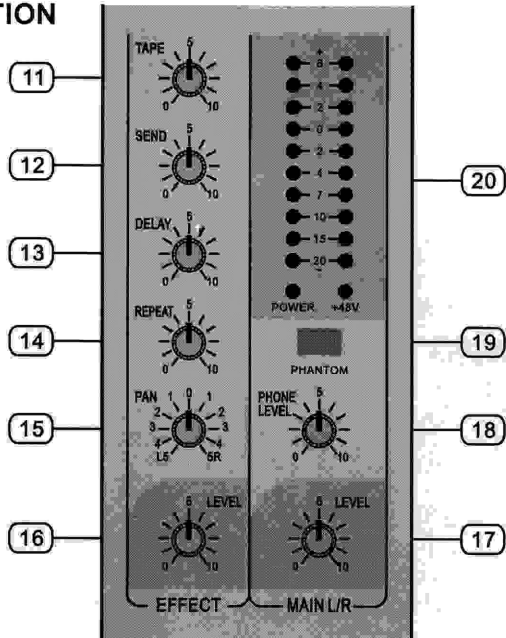
This is a single volume control sends the level to be the headphones and main monitors.

19.PHANTOM POWER SWITCH/LED

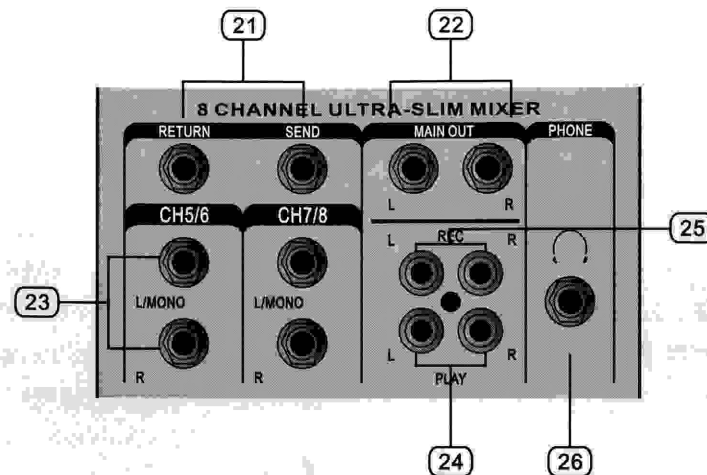
Depressing this switch applies 48V DC across all microphone input channels connectors for remote powering of condenser microphone. The LED will be turned on when start working.

20.OUTPUTS LEVELS INDICATOR

This is level meter which shows output levels of left & right channel condition on the way of operation, therefore, you can see output condition thru this master level indication.



C.MIXER OUTPUT SECTION



21.AUX SEND / RETURN JACK

This can be used to connect all kinds of effects from outside.

22.MAIN OUTPUT JACK (LEFT / RIGHT)

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

23.LEFT (MONO)/RIGHT

Line with connection 1 / 4 jack as line input of L ,R stereo and input the signal of balance line Level. If the signal input into the input terminal of left side, output the mono output to left & right side. If the signal input the input terminal of right side, output into the right side only. If each signal input the input terminal of left & right, output a stereo of left & right.

24.TAPE INPUT JACK

This jack is to be connected with cassette deck when playing back.

25.RECORD PIN JACK

This jack is to be connected with cassette deck when recording the mixed output.

26.HEADPHONE JACK

You can monitor working condition by sound thru the headphone.

D. POWER SECTION



27. POWER JACK

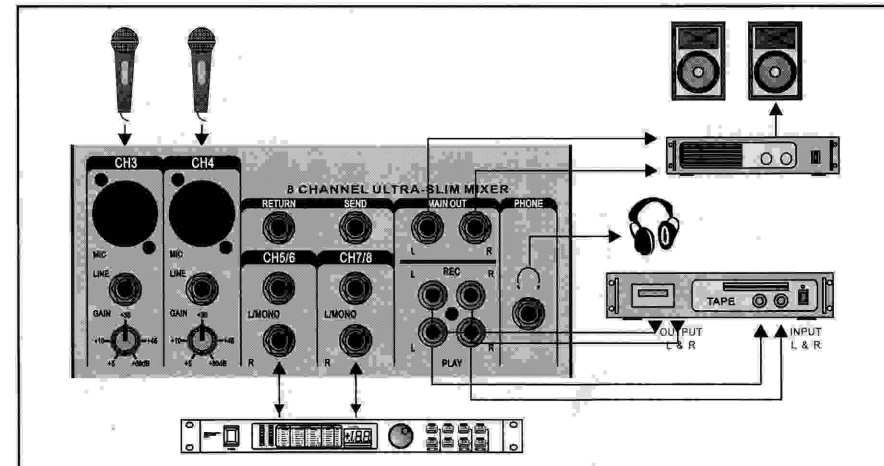
This is out of connecting the power supply (2 x AC 120V or 230V) jack.

28. POWER SWITCH

Push marked (1), when you want to operate. The LED (SEE NO. 19) will be turned on when

E. INSTALLATION

Experience tells us that the cables in a studio environment get tangled very quickly (inviting mistakes).



F. 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 cause damage to for your speaker system or your ears when you are wearing headphones.

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 thrn 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 external source.
7. To make sound thru 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

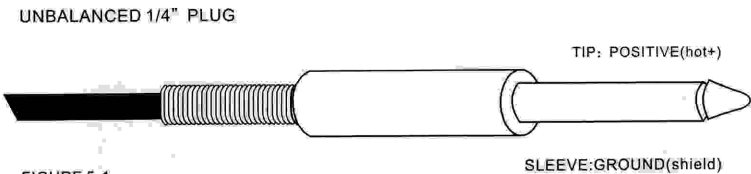


FIGURE 5-1

FEMALE 3 PIN CONNECTOR

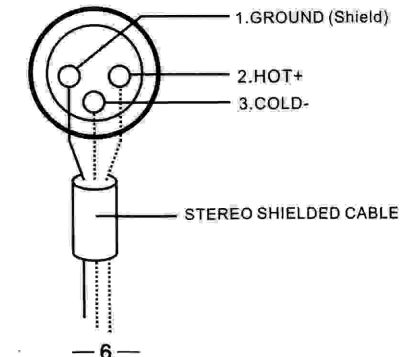


FIGURE 5-2

G. APPENDIX SPECIFICATIONS

Specifications

Mono Inputs

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

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	USA/Canada	~120V AC, 60Hz,
	U.K./Australia	~240V AC, 50Hz,
	China	~220V AC, 50Hz,