Professional Stereo Mixer

USER MANUAL

MV 80

▲ 4 stereo Input Channels with gold plated XLRs and balanced Line Inputs

▲ Ultra-low noise discrete Mic Preamps with +48 V Phantom Power

▲ Balanced Inputs for highest signal integrity

▲ Peak LEDs all Mono Channels

▲ 1 Aux Send per channel for external effects and monitoring

▲ 318 DSP

▲ Master Mix Output and rec output

▲ Highly accurate 5 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)

Electronially Balanced inputs acceptable a standard XLR male connector. +48V Phantom Power available on each input Mic socket.

2.LINE INPUT

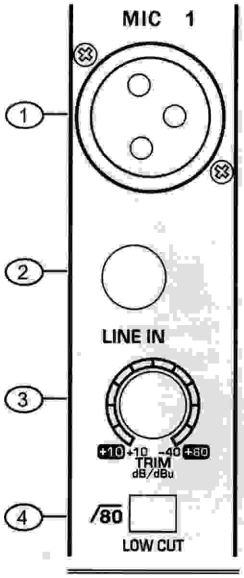
The unbalanced Mic input is provided for the use of an unbalance Mic and is designed to accept an unbalanced high impedance input signal. (This use for connection Deck,Turntable,Keyboard etc..)

3.TRIM

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

4.LOW OUT

Side down the slibe-switch, insert the 18 dB per octave 75Hz low cut filter in the signal path. This low cut filter is useful on live vocals to reduce stage rumble or "popping" from microphones: It can also be used to cut off low frequency hum.



5.HIGH

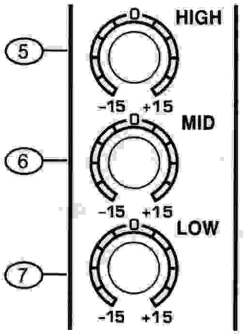
Control the high frequency tone of each channel.Always set this control to the 12 o'clock position, but you can control the high frequency tone according to the speaker, the conditions of listening position and listener's Taste. Clockwise rotation of the control increases level.

6.MID

This has a function which controls the middle frequency tone of each channel. Always set this control to the 12 o′clock position, but you can control the middle frequency tone according to the speaker, the conditions of listening position and listener′s taste, clockwise rotation of the control increase the level, and vice verse.

7.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 taste.Clockwise rotation of the control increases the level.



8.AUX 1

This is normally derived after the EQ section and channel fader(PRE-FADER,POSE-EQ), and is therefore unaffected by the fader position and routing status.This makes the send particularly suitable for foldback or monitor feeds,which need to be controlled separately from the main P.A. Mix.All pre-fade sends may be selected internally to be PRE-FADER, PRE-EQ.

9.AUX 2/EFF

This is normally derived after the EQ and channel fader (POST FADER, POST EQ),and is therefore follow any changers in fader level.They are normally used to drive effects processing units which are fed back into the mixer and which must fade out with the input channel.

10.PAN

The pan control sends continuously variable amounts of the post fader signal to either the left or right and G1 or G2 main busses.In the center position equal amounts of signal are sent to the left and right or G1&G2 busses.

11.PEAK

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

12.GRPS 1-2

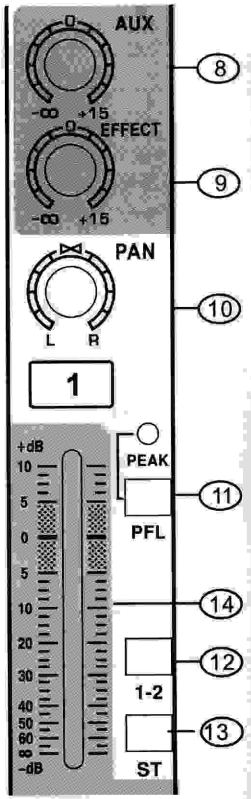
Push the switch, can use GROUP 1-2 fader.
During the G1-2 switch pushed, you can't use stereo L-R fader.

13.STEREO

Push the switch, can use ST L-R fader.
During the stereo L-R switch pushed, you can't use ST L-R fader.

14.CHANNEL FADER

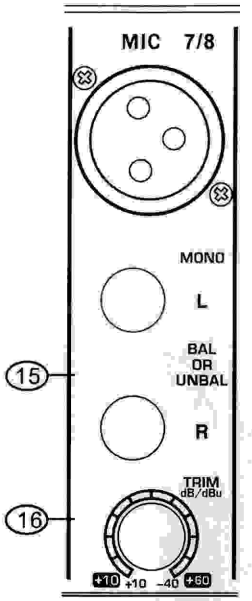
This is function to adjust the volume of signal connection into each channel and adjust the volume of output, togther with master fadet. Normal operating position is at the "O" mark, providing 4dB of gain adove that point, if required.



B.STEREO CHANNEL SECTION

15 16. 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.



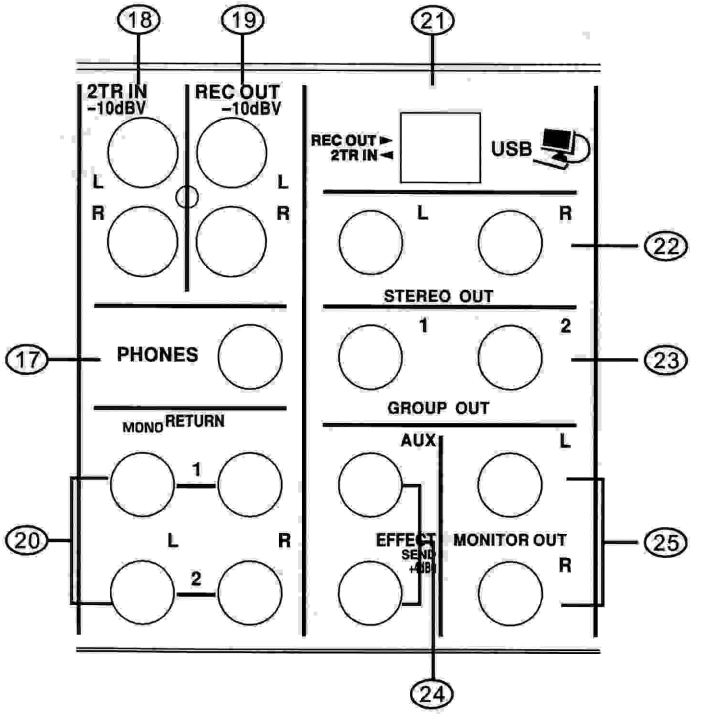
C.MIXER OUTPUT SECTION

17.STEREO OUTPUT JACK (LEFT/RIGHT)

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

18.TAPE INPUT JACK

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



19.RECORD PIN JACK

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

20.RETURN L (MONO),R Jacks

These are unbalanced phone-type line input jacks. The signal received by these jacks is sent to the Stereo bus and the AUX bus. These jacks are typically used to receive a return signal from an externa effector (reverb, delay, etc.).

22.ST OUT (L, R) Jacks

These jacks deliver stereo output of the mixed signal. You use these jacks, for example, to connect to the power amplifier driving your main speakers. You also use these jacks when you wish to record the signal utilizing the level control applied by the ST fader in the Master Control section.

- XLR jacks
- XLR-type balanced output jacks.
- LINE jacks
- TRS phone-type balanced output jacks.

23.GRPS 1-2

Push the switch, can use GROUP 1-2 fader.
During the G1-2 switch pushed, you can't use stereo L-R fader.

24.SEND Jacks

- AUX
  This is an impedance balanced phone-type output jack. This jack outputs the signals from AUX bus, respetively. You use this jack, for example, to connect to an effector or to a cue box or other such monitoring system.
- EFFECT
  This is an impedance balanced phone-type output jack that outputs the signal from the EFFECT bus. You use this jack, for example, to connect to an external effector.

25.C-R OUT Jacks

Use these stereo phone-type output jacks to connect to your monitor system.
NOTE: This signal monitored by these jacks is selected by the settings of the ST-GROUP toggle switch, the 2TR IN switch, and the PFL switches on the input channels.

D.MASTER SECTION

26.STEREO

Adjusts the signal level to the STEREO OUT jacks.

27.GR OUP

Adjsut the signal level to the GROUP1-2 jacks.

28.EFFECT RTN Fader

Adjusts the signal level from the internal digital effector to the STEREO bus.

29.Level Meter

This LED display shows the level of the signal selected by the selection switches described in a bove (the level to the C-R OUT and PHONES jacks). The "0" point coresponds to the standard output level. The indicator lights up red when the output hits the clipping level.

30.Master AUX Control

Adjusts the signal level to the corresponding AUX SEND jack.

31.Master EFFECT Control

Adjusts the level of the signal on the EFFECT bus. This is the signal that is output through the EFFECT jack.

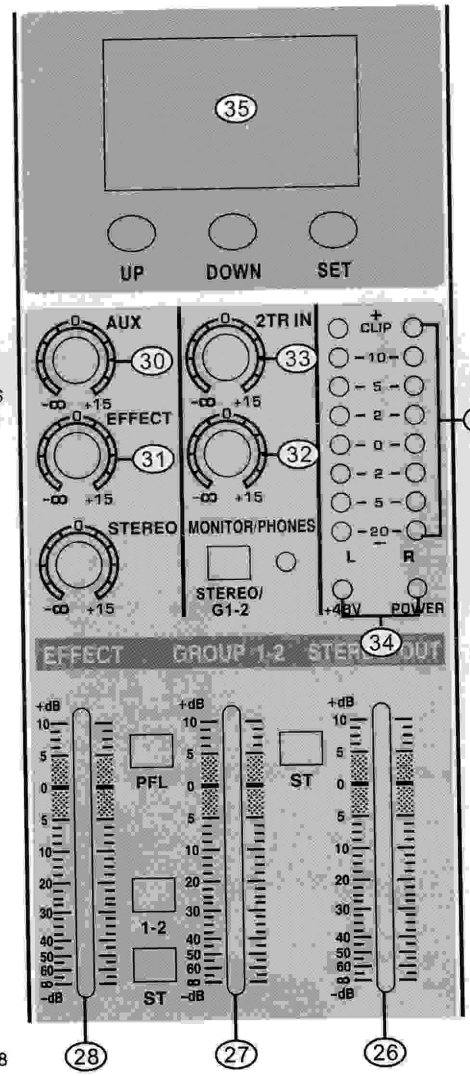
32.Contrds the level of the signal output to the phones jack and the MONITOR jack.

33.2TR IN Control

Adjusts the level of the signal sent from the 2TR IN jack to the Stereo bus.

34.POWER Indicator

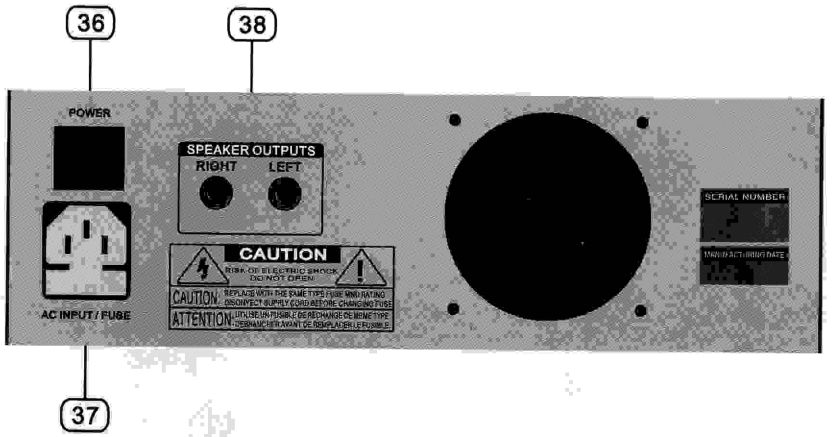
This indicator lights up when the mixer's power is on. PHANTOM Power
The LED will be turned on when start working 48



35.24-BIT MULTI-FX PROCESSOR

00	SMALL HALL	80	PLATE	160	DELAY	240	PHASER & REVERB
10	MID HALL	90	SPRING	170	ECHO	250	PITCH & REVERB
20	BIG HALL	100	GATED REV	180	CHORUS	260	DELAY & REVERB
30	CHURCH	110	REVERSE	190	FLANGER	270	DELAY & GATED
40	SMALL ROOM	120	EARLY REFL	200	PHASER	280	DELAY & REVERSE
50	MID ROOM	130	AMBIENCE	210	PITCH SHIFT	290	DELAY & CHORUS
60	BIG ROOM	140	STADIUM	220	CHORUS & REVERB	300	DELAY & FLANGER
70	CHAPEL	150	AMBIENCE FX	230	FLANGER & REVERB	310	DELAY & PHASER

E. POWER SECTION



36.POWER SWITCH

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

37.POWER JACK

This is out of connect the power supply jack.

38.SPEAKER JACK LEFT, RIGHT

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

F. HOW TO OPERATE

1. A bove 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

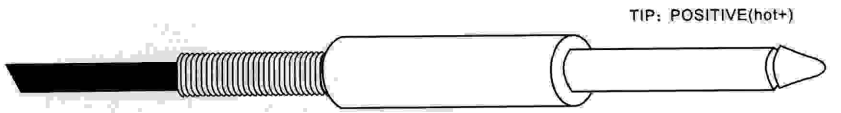


FIGURE 5-1

FAMALE 3 PIN CONNECTOR

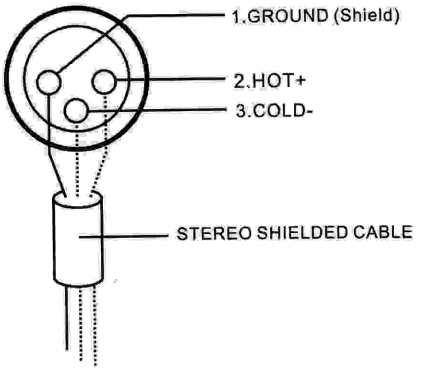


FIGURE 5-2

G. APPENDIX SPECIFICATIONS

Specifications
Mono Inputs

Mic Input B	electronically balanced,discrete input configuration
Andwidth	10Hz to 60 kHz ±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
TRIMrange	+10dB to 60dB
Line input	electronically balanced
Bandwidth	10Hz to 60 KHz±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	~120V AC,60Hz,
	~240V AC,50Hz,
	~220V AC,50Hz,