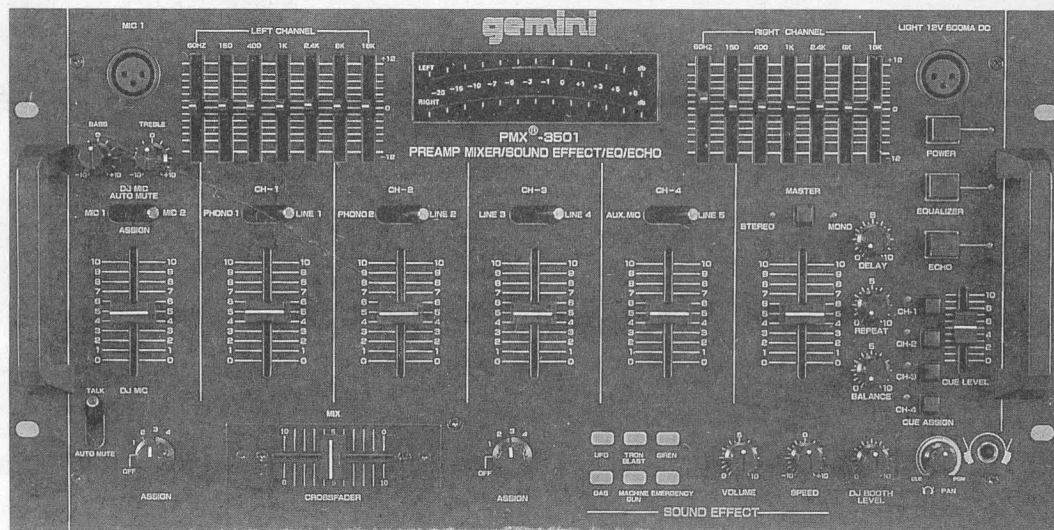


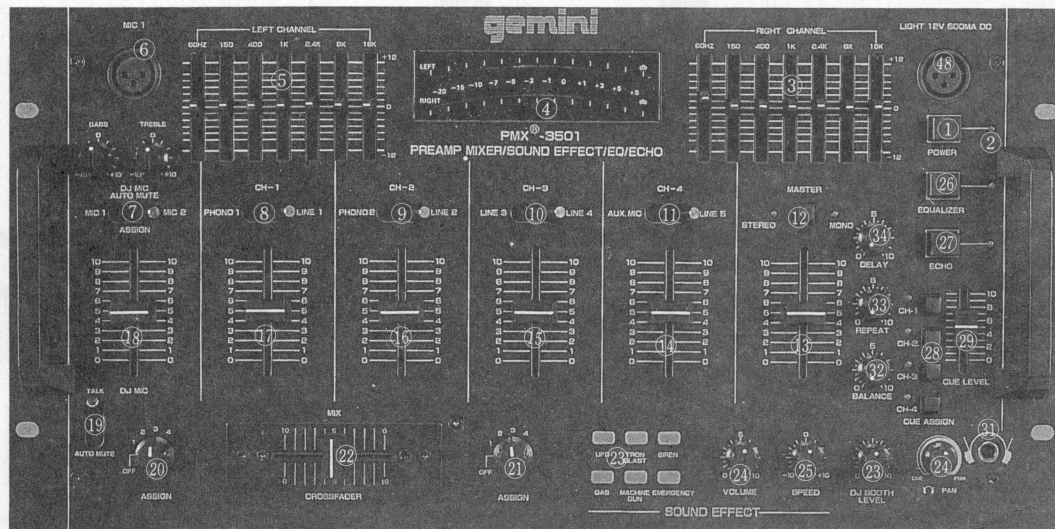


PMX-3501[®]

**STEREO PRE-AMP MIXER
SOUND EFFECTS/ECHO/EQUALIZER**



INSTRUCTION MANUAL



NOTE: This product is double insulated and not intended to be grounded.

PMX-3501

INTRODUCTION

We congratulate you on choosing a Gemini Sound Products mixer. You will find its front panel design makes using it very simple.

The latest advances in mixer technology have been utilized, making your PMX-3501 the ideal brain of any audio system.

We have incorporated many features to make you, the DJ, present a professional product. It's assignable and replaceable crossfader, it's 7 x 7 band EQ, the echo section, or any one of it's many features makes using your PMX-3501 a DJ's delight.

To obtain maximum performance from your PMX-3501, please read all the instructions carefully before operating.

AC LINE OPERATION

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

WARNINGS

1. All operating instructions should be read before using this equipment.
2. To reduce the risk of electric shock, do not remove the cover or the back. THERE ARE NO USER SERVICABLE PARTS INSIDE THE PMX-3501. Please refer servicing to a qualified technician.
3. Do not expose to direct sunlight or heat sources: such as radiators, stoves, or other appliances that produce heat.
4. This unit should be cleaned only with a damp cloth. Avoid solvents or other cleaning detergents.
5. When moving this equipment it should be placed in its original carton and packing. This will reduce the risk of damage in transit.

CAUTION

DO NOT USE ANY SPRAY CLEANERS OR LUBRICANTS ON ANY SLIDE CONTROL.

CAUTION

ALL VOLUME OR LEVEL CONTROLS MUST BE SET AT "0" OR MINIMUM POSITION BEFORE TURNING POWER ON

INSTRUCTIONS FOR CONNECTIONS

1. Be sure that the POWER (1) is in the off position. All connections must be made with the equipment off, and the MASTER (13) at zero.
2. Before plugging in the POWER CORD (47) make sure the VOLTAGE SELECTOR SWITCH (46) is set to the correct voltage (this unit is preset to 115V). Insert the power cord into a proper power source.
3. For best sound use only high quality phone cables when hooking up equipment to the mixer. Make sure that all cables are pushed in securely.
4. When hooking up the amplifier use the OUTPUT AMP (43) jacks. Make sure you correctly attach the left and right cables.
5. If you desire to record your mix, connect the OUTPUT RECORD (44) jacks to the input of your reel to reel or cassette deck. The record output will vary as you raise and lower the CHANNEL SLIDES (14,15,16,17,18).
6. The unit is equipped with two microphone inputs. The MIC 2(35) input jack is located on the back of your mixer. MIC 1 (6) input jack is located on the front of the mixer.
7. Two turntables may be attached to this mixer. Inputs for PHONO 1 (36) and PHONO 2 (38) are located on the back panel. PHONO/LINE (8, 9) switches must be

set to phono in order for the turntable sound to come through the system. Volume for each channel is controlled by the CH-1 (17) and CH-2 (16) slide controls.

8. Tuners, cassette decks, CD players or any other line/aux level devices may be connected using LINE (37-42) inputs located on the back panel. PHONO/LINE (8, 9) and MIC/LINE (11) switches must be set to line for these devices to play through the mixer. Volume for each channel is controlled by CHANNEL (14-17) slides.

OPERATING INSTRUCTIONS

1. POWER ON: Once you have made all connections to your mixer press the POWER (1) button. The POWER LED (2) will Light up indicating that the mixer is on.
2. MICROPHONE ADJUSTMENTS: The Gemini PMX-3501 has various switches and slides that may be used for different applications.

The Bass (49), Treble (50) and Auto Mute are used for DJ Mic (18) only.

DJ Mic volume is controlled by raising or lowering the volume slide (18). Aux Mic is controlled by Channel 4 volume slide (14). Be sure that the Aux Mic/Line 5 switch (11) is set to Aux Mic.

The DJ Mic Assign Switch (7) is used for assigning which MIC input will be used for the DJ Mic. By selec-

ting Mic 1, the Mic 2 input is assigned to the Aux Mic control. The Mic 1 input is now assigned to the DJ Mic. If you decide to use Mic 2 input for DJ Mic the reverse takes place, Mic 1 input now becomes the Aux Mic and Mic 2 input is assigned to the DJ Mic.

The Auto Mute/Talkover Switch (19) has been designed to give more versatility to the DJ Mic and Aux Mic. By moving the selector to Auto Mute, the sound level of all sources except the DJ Mic and Aux Mic are automatically reduced 16 dB as soon as DJ Mic is voice activated. When you speak into the Mic that is assigned to the DJ Mic, the sound level is cut, when you stop speaking the sound level is restored to the original volume.

By moving the selector to talkover, you will lower the sound level 16 dB, however you must now manually set the talkover switch (19) to the off position to raise the sound level when you finish talking.

An example of DJ Mic assign would be as follows: You have an XLR Mic connected to Mic 1 input(6) and a Wireless Mic connected to Mic 2 input(35). If you wish to join your audience with the wireless mic, but you cannot adjust the talkover while your away from the mixer. simply move the DJ MIC ASSIGN (7) to Mic 2, set the AUTO MUTE/TALKOVER (19) to Auto Mute and adjust DJ Mic output level and Bass/treble controls accordingly. Now the Mic 2 input is routed thru DJ Mic, Mic 1 input is routed to Aux Mic CH-4, and talkover is voice activated by the wireless mic.

3. PHONO/LINE and Aux MIC/LINE selection: By moving the PHONO/LINE (8, 9) 1 switches or the Aux MIC/LINE

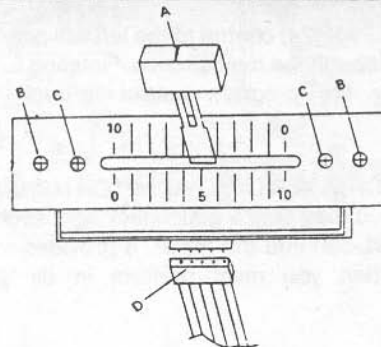
(11) switches to the appropriate position you can choose which source will play through the mixer at any give time.

4. REMOVEABLE FADER: The CROSS FADER (22) mixes one channel into another. This mixer features an ASSIGNABLE FADER (20,21) you can select which channel will play through the FADER (22). SWITCH (20) allows CHANNEL 1,2,3 and 4 to play through the left side of the FADER (22). SWITCH (21) also allows channel 1,2,3 and 4 to play through the right side of the FADER (22), when switch is to "OFF", the crossfader is unactive.

*** SEE BELOW FOR DIAGRAM AND INSTRUCTIONS FOR REMOVEABLE FADER.**

To Change new fader as follow:

- 1) REMOVE THE FADER KNOB (A) BY PULLING UP.
- 2) UNSCREW THE OUTSIDE FADER PLATE SCREWS (B) DO NOT TOUCH THE INSIDE SCREWS (C)
- 3) CAREFULLY LIFT THE FADER AND UNPLUG THE CABLE (D).
- 4) PLUG THE NEW FADER INTO THE CABLE AND PLACE IT BACK INTO THE MIXER
- 5) SCREW THE FADER TO THE MIXER
- 6) RETURN THE FADER KNOB TO ITS ORIGINAL POSITION.



5. **EQUALIZER:** To activate the EQUALIZER (3,5) press the EQUALIZER ON (26) button. By moving the LEFT CHANNEL (5) or RIGHT CHANNEL (3) slide controls you may alter the sound 12db, at seven different frequency points. The equalizer is provided to allow total sound adjustment for any room environment, it will not improve source quality.

6. **MASTER VOLUME:** Overall volume is controlled by the MASTER (13). Raising or lowering this control will effect the output volume and METER (4) sensitivity. Through the MONO/STEREO (12) switch you can choose either a mono or stereo output.

7. **MONITOR(CUE):** By connecting a headphone to the HEADPHONE(31) jack you can monitor any channel or any combination of channels, Select the correct CUE ASSIGN(28) button for the channel or channels you wish to monitor. The LED lights will indicate which channel or channels you have assigned. CUE LEVEL (29) controls the headphone volume without effecting the overall mix.

By rotating the PAN (24) control to the left will play the cue selection through the headphones. Rotating to the right will play the program output through the headphones.

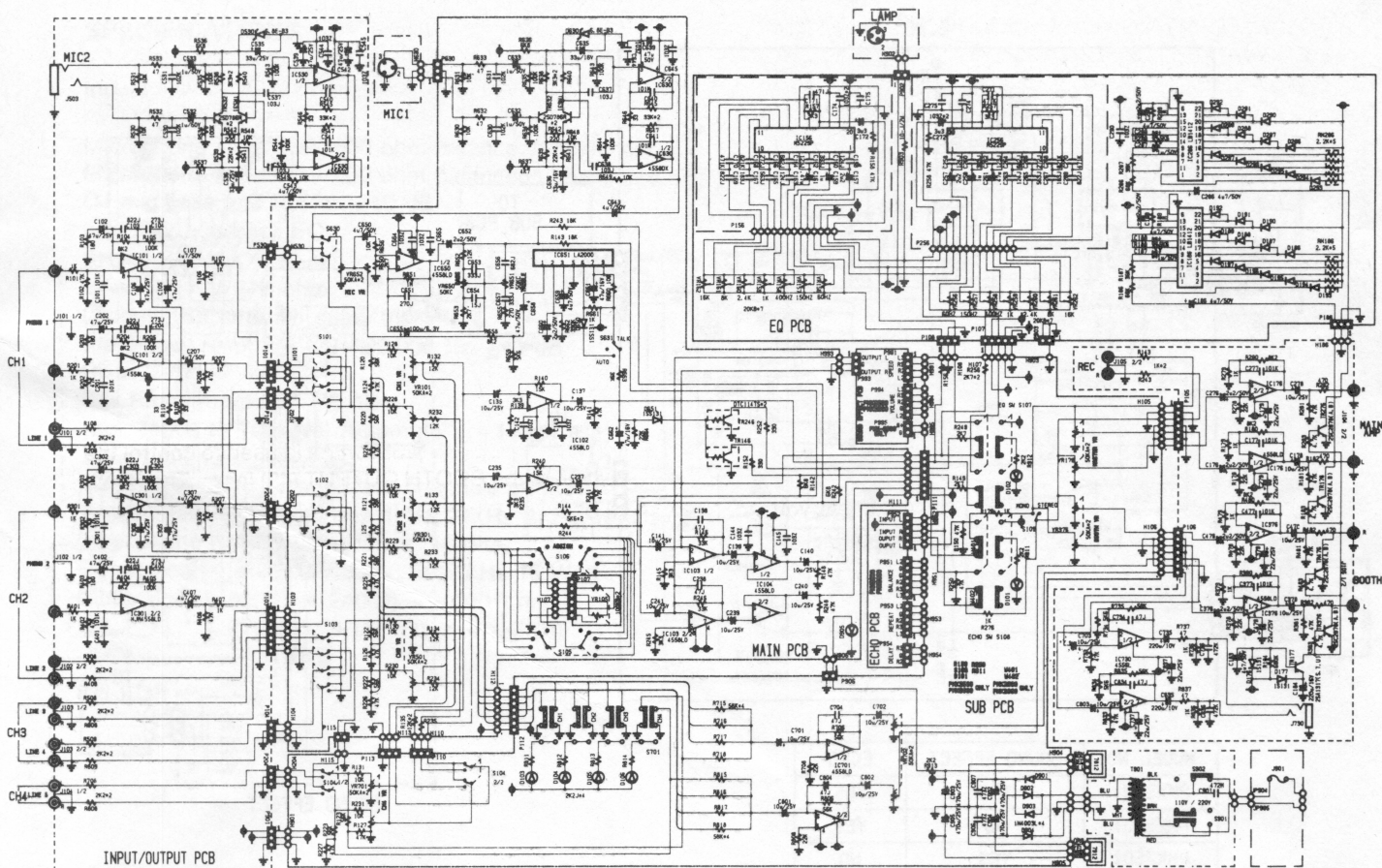
8. **LIGHT ADAPTOR:** A XLR LIGHT ADAPTOR (48) is provided so that you may plug a gooseneck light such as the Gemini GNL-500 into the mixer. It provides maximum light when you must perform in dimly lit environments.

9. **ECHO (27)** is used to create rapid slap backs, reverberation or discrete echo effects. To activate, push the ECHO (27) button to the down position. Turning the DELAY (34) knob clockwise will increase delay time. To increase or decrease the amount of echo repetition, turn the REPEAT (33) knob. The BALANCE (32) knob will adjust the echo effect level.

10. **SOUND EFFECTS:** Six different sounds (GAS, MACHINE GUN, EMERGENCY, UFO, TRON BLAST and SIREN) may be added to your mix by depressing the SOUND EFFECT (23) controls. EFFECT LEVEL (24) controls the volume of the effects and SPEED (25) Controls the pitch of the effects.

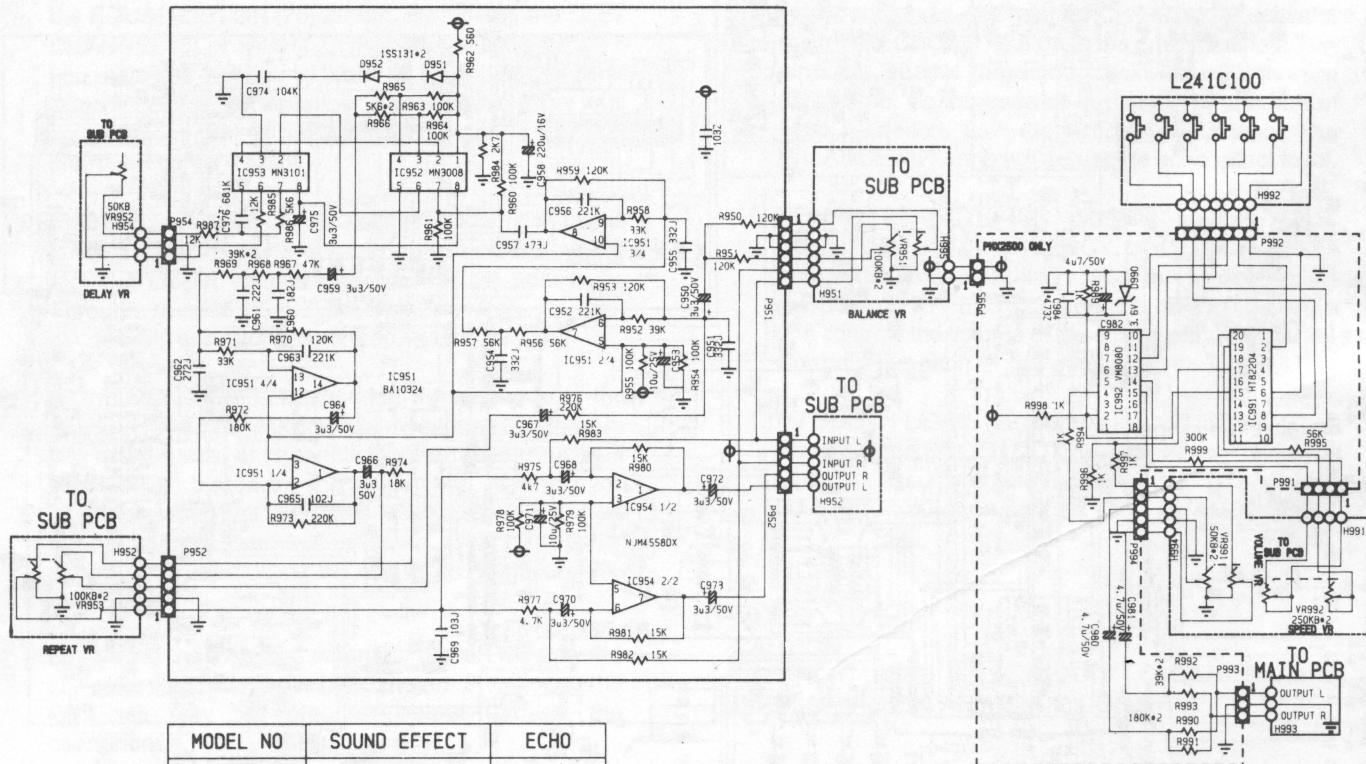
11. **DJ BOOTH LEVEL (23)** control is used to control the volume of the BOOTH OUTPUT (45) jacks. The Booth Output is used by DJs to run monitor speakers in the DJ booth. You can use it as an extra AMP output.

CAUTION
DO NOT USE ANY SPRAY CLEANERS OR LUBRICANTS ON ANY SLIDE CONTROL.



PMX-3500/2000

ECHO



SPECIFICATIONS

Inputs:

Microphone #1: 1.5mV 600 ohm balanced/unbalanced

Microphone #2: 1.5mV 600 ohm balanced/unbalanced

DJ mic bass and treble: ± 10 dB

Aux mic: bypasses EQ

Phono: 3 mV 47K ohm

Line: 150 mV 27K ohm

Output: 16V peak To peak maximum

Frequency response: 20 - 20,000 Hz ± 3 dB

Distortion: 0.05%

S/N Ratio: more than 70 dB

Attenuation to "talkover/Automute": - 16 dB

Equalization range:

+/- 12 dB with independent channels on the
bands 60 Hz, 150 Hz, 400 Hz, 1kHz, 24KHz, 8KHz, 16KHz,

Headphone monitor impedance: 16 ohm

Power source: AC 115V/230V, 50/60 Hz 15 Watt

Dimensions: 482(W) \times 240(D) \times 110(H) mm

19"(W) \times 9-1/2"(D) \times 4-1/4"(H)