

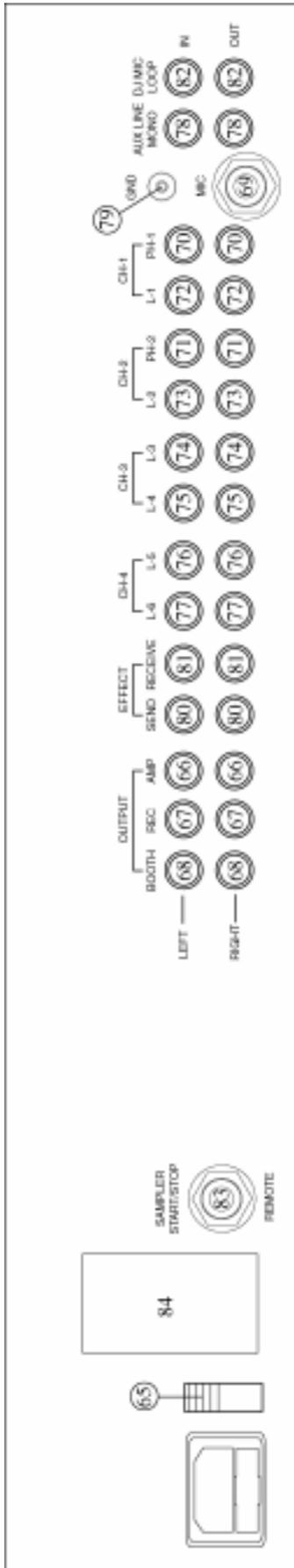
**gemini<sup>®</sup>**

OPERATIONS MANUAL

**PS-924**

**STEREO PREAMP MIXER**





## INTRODUCTION

Congratulations on purchasing a Gemini Platinum Series model PS-924 mixer. This state of the art mixer includes the latest in features and sampling technology and is backed by a three year warranty. Prior to use, we suggest that you carefully read all the instructions.

## FEATURES

- Digital Sampler with 5 Memory Banks
- Battery Backup
- 4 Stereo channels (2 Phono/6 Line)
- 1 DJ Mic channel
- 1 Aux Mic or Line Mono channel
- Combo XLR or 1/4" DJ Mic jack
- Bass, Mid, Treble and Gain controls on each channel
- The DJ Mic and Aux channels have pan controls
- Assignable, removable Crossfader with Beat indicators
- Assignable Send plus Receive effects circuitry for adding off board sound enhancers
- DJ Mic loop

## WORDS TO THE WISE

1. All operating instructions should be read before using this equipment.
2. To reduce the risk of electrical shock, do not open the unit. There are NO USER REPLACEABLE PARTS INSIDE. Please refer servicing to a qualified service technician.
3. Do not expose this unit to direct sunlight or to a heat source such as a radiator or stove.
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 packaging. This will reduce the risk of damage during transit.

## CAUTIONS

**DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.**

**DO NOT USE ANY SPRAY CLEANER OR LUBRICANT ON ANY CONTROLS OR SWITCHES.**

## CONNECTIONS

1. Before plugging in the power cord, make sure that the **VOLTAGE SELECTOR (65)** switch is set to the correct voltage.

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

2. Make sure that the **POWER (1)** switch is in the off position. The **POWER LED (2)** will be off.
3. The PS-924 is supplied with 3 sets of output jacks. The **OUTPUT AMP (66)** jacks are used to connect to your main amplifier. The **OUTPUT REC (67)** jacks can be used to connect the mixer to the record input of your recorder enabling you to record your mix. The **OUTPUT BOOTH (68)** jacks allow you to hook up an additional amplifier.
4. The PS-924 is equipped with 2 microphone inputs. The **DJ MIC (3)** input (found on the front panel) accepts 1/4" or XLR connectors and suitable for balanced or unbalanced microphones. The **AUX MIC (69)** input (found on the rear panel) is a 1/4" jack for an unbalanced microphone.
5. On the rear panel are 2 stereo **PHONO (70, 71)** inputs, 6 stereo **LINE (72, 73, 74, 75, 76, 77)** inputs and 1 mono **AUX LINE (78)** input. The stereo phono inputs will accept only turntables with a magnetic cartridge. A **GROUND (79)** screw for you to ground your turntables is located on the rear panel. The stereo line inputs will accept any line level input such as a CD player, a cassette player, etc.

**Note: The AUX LINE (78) input is composed of 2 RCA jacks. When connecting a mono line level source, either jack can be used. By connecting a stereo line level device to both jacks, the input will be combined to one mono signal.**

6. Headphones can be plugged into the front panel mounted **HEADPHONE (4)** jack.
7. The PS-924 comes with a front panel **XLR LIGHT (5)** jack. This jack is for use with a gooseneck light like the Gemini GNL-500. **NEVER** plug a microphone into this jack.
8. If you are using an off board signal enhancer, you can use the **SEND (80)** output to send the signal to the device and the **RECEIVE (81)** input jacks to bring the signal back in to the PS-924.
9. The PS-924 is supplied with **DJ MIC LOOP (82)** jacks that can be used to add an audio enhancer such as a key controller to the mic circuit. There must be a connection to these jacks. If no device is being used in the DJ mic loop, then the jumper wire, (included), must be in place.

## OPERATION

1. **POWER ON:** Once you have made all the equipment connections to your mixer, press the **POWER SWITCH (1)**. The power will turn on and the **POWER LED (2)** will glow RED.
2. **DJ MIC SECTION:** The **GAIN (6)**, **TREBLE (7)**, **MID (8)**, **BASS (9)**, **PAN (10)** and **LEVEL (11)** controls allow full adjustment of the DJ mic that is plugged into the **DJ MIC (3)** input.

**Note: The OVERLOAD LED (12) glows red when the DJ mic is being over driven. To correct the setting, turn down the GAIN (6) control until the LED goes off.**

3. **AUX CHANNEL:** By using the **AUX MIC/LINE (13)** switch, you can choose between an additional mic or an additional mono line input. The **GAIN (14)**, **TREBLE (15)**, **MID (16)**, **BASS (17)**, **PAN (18)** and **LEVEL (19)** controls fully adjust the Aux Channel input you selected with the **AUX MIC/LINE (13)** switch.

**Note: The OVERLOAD LED (20) glows red when the Aux Channel is being over driven. To correct the setting, turn down the GAIN (14) control until the LED goes off.**

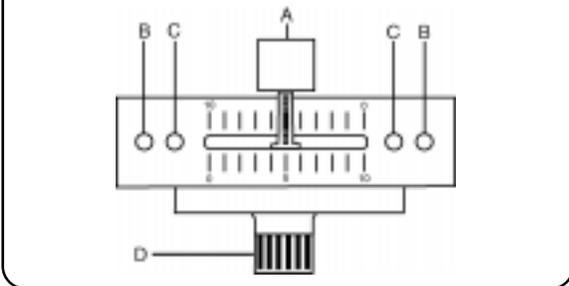
*HINT: Like the DJ Mic, the Aux Channel is always live. Hooking up another mic or a mono line device such as a sound effects generator or a drum machine, will allow you to play the selected source at any time.*

4. **MAIN CHANNEL SECTION:** To assign an input source to a channel, set the **PHONO/LINE (29,30)** and the **LINE/LINE (31, 32)** switches to their appropriate positions. To make the proper adjustments to your music, set the **TREBLE (21)**, **MID (22)**, **BASS (23)** and **GAIN (24)** controls and the **CHANNEL (25, 26, 27, 28)** slides.
5. **CROSSFADER SECTION:** The **CROSSFADER (38)** allows the mixing of one source into another. The PS-924 features an assignable crossfader. The **ASSIGN (39,43)** switches allow you to select which channel will play through each side of the CROSSFADER. **ASSIGN (39)** switch allows you to select channel 1, 2, 3 or 4 to play through the left side of the CROSSFADER. **ASSIGN (43)** switch does the same to the right side of the CROSSFADER. Each assign switch has its own **OFF (40)** switch and **OFF INDICATOR (41)** LED. With the **OFF (40)** switch in the off position (the **OFF INDICATOR (41)** glows red), that side of the **CROSSFADER (38)** will be inactive.

*HINT: Try using the OFF (40) switches when you are changing the ASSIGN (39,43) switch settings. For Example: Assume that you have a turntable hooked up to channel 1, a tape deck hooked up to channel 2 and a CD player hooked up to channel 3. The left side ASSIGN (39) switch is set to 1, the right side ASSIGN (43) is set to 2, and the CROSSFADER (38) is all the way to the right. Under this set of circumstances, channel 2 will be playing your tape deck. Now suppose you want to change the left side ASSIGN (39) switch to # 3 so that you can use your CD player. You must turn the left side ASSIGN (39) off by pressing the OFF (40) Switch (the OFF INDICATOR (41) glows red). Then you can make your changes to the setting. Reactivate the ASSIGN (39) switch by pressing the OFF (40) switch (the OFF INDICATOR (41) goes off). Failure to do this will result in an audio glitch when the assign (39) switch setting is changed.*

The **CROSSFADER (38)** in your unit is REMOVABLE and if the need arises can be easily replaced. Crossfader units are available in two sizes. Part # RF-45 (which is identical to the crossfader supplied with the PS-924) has a 45 mm travel from side to side. Also available is part # RF-30 which has a 30 mm travel distance Just purchase either of these crossfader units from your Gemini dealer and follow these instructions:

1. Unscrew the outside FADER plate screws (B). Do not touch the INSIDE SCREWS (C).
2. Carefully lift the fader and unplug the CABLE (D).
3. Plug the new fader into the cable and place it back in the mixer.
4. Screw the fader to the mixer.



6. BEAT INDICATORS: Each side of the **CROSSFADER (38)** has its own **BEAT INDICATOR (42, 44)**. They flash at the low frequency peak level of each assigned source, allowing you to match the beats visually. **BEAT INDICATOR (42)** will reflect the beat of the source assigned to the left side of the **CROSSFADER (38)** and **BEAT INDICATOR (44)** will do the same for the right side.

**Note: The flashing level can be fine tuned by increasing or decreasing the gain and bass controls of the assigned channel.**

7. OUTPUT CONTROL SECTION: The level of the **AMP OUT (66)** is controlled by the **MASTER (33)** slide. The **BALANCE (34)** control will allow the Amp Out signal to be balanced between the left and right speakers. The **MONO (35)** switch, when depressed, (the **MONO LED (36)** will glow), will make the Amp Out signal a mono signal. The **BOOTH (37)** control adjusts the level of the **BOOTH OUTPUT (68)**.

**Note: The LED DISPLAY (48) indicates the AMP OUT (66) signal only and is not affected by the BOOTH OUTPUT (68) signal.**

*HINT: The booth OUTPUT is used by some DJs to run monitor speakers in their DJ booth. You can also use it as a second ZONE or AMP output.*

**Note: The RECORD OUT (67) has no level control. The level is set by the channel slides and the gain control of the selected channel. The tonal qualities are set by the bass, treble and mid controls of that same channel**

8. TALKOVER SECTION: The purpose of the talkover section is to allow the program playing to be muted so that the mic can be heard above the music. When the **TALKOVER ON/OFF (45)** button is pushed (the **TALKOVER INDICATOR (46)** will glow), the volume of all sources except the DJ Mic and the Aux channel are reduced. The amount of reduction can be set between -6 dB and -36 dB by using the **MUTE LEVEL (47)** control.

9. SEND AND RECEIVE SECTION: By using the **SEND ASSIGN (49)** switch, you can send the selected signal to some sort of audio enhancement device (like a digital sampler or key controller). The level of the signal being sent can be adjusted by the **SEND (50)** control. To receive the signal back into the PS-924, you must first turn on the **RCV ON (51)** switch (**LED (52)** will light). The level of the signal being received can be adjusted with the **RECEIVE (53)** control.

**Note: The signal being received back into the PS-924 can be monitored by using the headphones and by pressing the RECEIVE (54) cue control. If the RCV ON (51) switch is in the off position (LED (52) is off), the level of the signal can be monitored and adjusted prior to its playing through the output. Turning the RCV ON (51) switch to the on position connects the received signal to the output section.**

*HINT: The RECEIVE (81) input can be used as an additional stereo line level input controlled by the RECEIVE (53) and activated by the RCV ON (51) switch.*

10. CUE SECTION: By connecting a set of headphones to the **HEADPHONE (4)** jack, you can monitor any or all of the channels. **CUE ASSIGN (55)** buttons are for the channels 1 - 4 and the **CUE ASSIGN (56)** button is for the Aux Mic/Line Mono channel and the DJ Mic.

*HINT: When you are using the DJ Mic and have a device connected to the DJ Mic Loop, the signal you hear in the headphones includes the device in the loop.*

Select the correct Cue assign button or buttons and their respective LED indicators will glow. Use the **HEADPHONE LEVEL (57)** control to adjust the headphone volume with out effecting the overall mix. By rotating the **CUE PGM PAN (58)** control to the left you will be able to monitor the assigned cue signal. Rotating to the right will monitor the PGM (program) output .

## SAMPLER OPERATION

**GENERAL INFORMATION:** The PS-924 Sampler uses Dynamic RAM memory and a 12 bit microprocessor controller. The full bandwidth results in true sound reproduction.

**MEMORY INFORMATION:** The PS-924 comes equipped with five **MEMORY BANKS (59)**. The two banks marked 2 & 2 are two seconds in length, the two banks marked 4 & 4 are four seconds in length and the bank marked 12 is twelve seconds in length. These banks are separate and can not be linked. You can store a different sample in each bank but they must be recorded individually and they must be played one at a time.

**SAMPLE RECORDING:**

1. Put the **MODE SELECTOR (62)** switch into the **WRITE** position.
2. Select the source you want to sample from by pressing the appropriate **ASSIGN BUTTON (61)**.
3. Select the memory bank you want to record into, by pressing the proper **MEMORY BANK (59)** button.
4. Model PS-924 is equipped with a **SAMPLER REC/PLAY LEVEL (63)** control. When the **MODE SELECTOR (62)** is in the **WRITE** mode, this control acts as a Record Level Control. If the **OVERLOAD INDICATOR (62A)** is blinking, it means that the input signal you are going to sample, is too strong and will cause the sample to be distorted. Lower the sample signal intensity by turning the **SAMPLER REC/PLAY LEVEL (63)** control counter clockwise. If the **OVERLOAD INDICATOR (62A)** is off, turn the **SAMPLER REC/PLAY LEVEL (63)** control clockwise until the **OVERLOAD INDICATOR (62A)** begins to blink and then turn the **SAMPLER REC/PLAY LEVEL (63)** control counter clockwise until the **OVERLOAD INDICATOR (62A)** goes off.
5. Tapping the **START/STOP (60)** button begins the sampling process (the **SAMPLER INDICATOR (60A)** will illuminate **RED**). Tapping the **START/STOP (60)** button a second time ends the sample (the **SAMPLER INDICATOR (60A)** will turn off). If you do not tap the **START/STOP (60)** button a second time, the sampling process will stop automatically after 2, 4 or 12 seconds depending on which **MEMORY BANK (59)** was selected.

**SAMPLE PLAYBACK:**

1. Put the **MODE SELECTOR (62)** switch into the **SINGLE** or **REPEAT** position.
2. Select the memory bank you wish to play by pressing the proper **MEMORY BANK (59)** button.
3. When the **MODE SELECTOR (62)** is in the **SINGLE** or **REPEAT** mode, the **SAMPLER REC/PLAY LEVEL (63)** control acts as a Sampler Level Control.
4. Tapping the **START/STOP (60)** button with the **MODE SELECTOR (62)** switch in the **SINGLE** position will cause the sampler to playback one time (the **SAMPLER INDICATOR (60A)** will illuminate **GREEN**). Every push of the **START/STOP (60)** button will restart the sample from the beginning. Rapid pressing of the **START/STOP (60)** button will cause a stuttering effect. Once the sample has started playback and the **START/STOP (60)** button is not pushed a second time, the sample will play to the end and then stop (the **SAMPLER INDICATOR (60A)** will turn off).
5. Tapping the **START/STOP (60)** button with the **MODE SELECTOR (62)** switch in the **REPEAT** position will cause the sample to continuously play over and over (the **SAMPLER INDICATOR (60A)** will illuminate **GREEN**). The **START/STOP (60)** button will act as an on/off switch. The first push will start the sample, the second push will stop it.

#### ROBO PLAY:

1. With the **ROBO PLAY (63A)** button in the OFF POSITION (the **ROBO PLAY INDICATOR (63B)** will be **OFF**) and the **MODE SELECTOR (62)** switch in either the **SINGLE** or **REPEAT** mode, pressing the **START/STOP (60)** button will cause the sample to play along with the selected source.
2. When the **ROBO PLAY (63A)** button is in the **ON** position (the **ROBO PLAY INDICATOR (63B)** illuminates **RED**), starting the sampler mutes the selected source. When the sample ends, the source automatically turns back on.

#### PITCH CONTROL:

1. The PS-924 comes equipped with a sampler **PITCH (64)** control. To get a perfect sample, set the control to its center position and record the sample.
2. During playback, raising or lowering the control will raise or lower the pitch of the sample playback. The center position will remain as normal pitch.

*HINT: You can record a sample with the PITCH (64) control in any position. Whatever that position is will become normal sound. If you start to record a sample with the PITCH (64) control set at minimum (this now becomes your normal pitch), by increasing the pitch to maximum, the pitch effect will double in speed. Recording at maximum and lowering to minimum will do exactly the opposite.*

#### REMOTE START/STOP:

1. Plug a momentary normally open foot switch with a 1/4" plug into the **REMOTE START/STOP (83)** jack on the rear panel.
2. This allows you to trigger the sampling process with the foot switch leaving your hands free to do other things.

**BATTERY BACKUP:** The PS-924 is equipped with battery backup to retain samples. To activate this feature, a 9 volt battery (not included) needs to be connected to the **BATTERY HOLDER (84)** located on the rear panel. This will enable you to store samples in memory and when the unit is unplugged, the battery backup will retain the samples for future use. **If the unit is unplugged with no battery attached, all the samples will be lost.**

**LOW BATTERY INDICATOR:** A low battery indicator is included with the PS-924. when changing the battery, make sure the unit is plugged in and the power is **ON**. Failure to adhere to this will result in lost memory. The low battery indicator is **ON** when the selected memory bank LED blinks. The LED will also blink if no battery is connected to the unit.

## SPECIFICATIONS

#### INPUTS:

DJ Mic.....	1.5mV 3Kohm balanced/unbalanced
Aux Mic.....	1.5mV 10Kohm unbalanced only
Aux Line.....	150mV 27Kohm
DJ Loop.....	150mV 10Kohm
Phono.....	3mV 47Kohm
Line.....	150 mV 27Kohm
Receive.....	75mV 27Kohm

#### OUTPUTS:

Amp/Booth.....	0 dB 775mV 400ohm
Max.....	24V Peak to Peak
Rec.....	225mV 5Kohm
DJ Loop.....	150mV 220ohm
Send.....	150mV 300ohm

#### SAMPLER:

Sampler System.....	12 Bit Sampling
Maximum Sample Length.....	12 Seconds
Total Memory Capacity.....	24 Seconds

#### GENERAL:

Bass.....	+/- 12dB
Mid.....	+/- 9dB
Treble.....	+/- 12dB
Gain (Mic/Aux).....	0 to -40dB
Gain (Chnls 1-4).....	0 to -20dB
Frequency Response.....	20Hz - 20KHz +/- 2dB
Distortion.....	0.02%
S/N Ratio.....	better than 80dB
Talkover Attenuation.....	-6 to -36dB
Headphone Impedance.....	16ohm
Power Source.....	115/230V 50/60Hz 15W
Dimensions.....	482mm x 240mm x 110mm 19" x 9 1/2" x 4 1/4"
Weight.....	11lbs (5Kg)



**In the U.S.A., if you have any problems with this unit, call 1-732-969-9000 for customer service. Do not return equipment to your dealer.**

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