

OPERATIONS MANUAL

Bedienungsanleitung

Manual de funcionamiento

Manual de fonctionnement

Manual del utente

®



KL-19

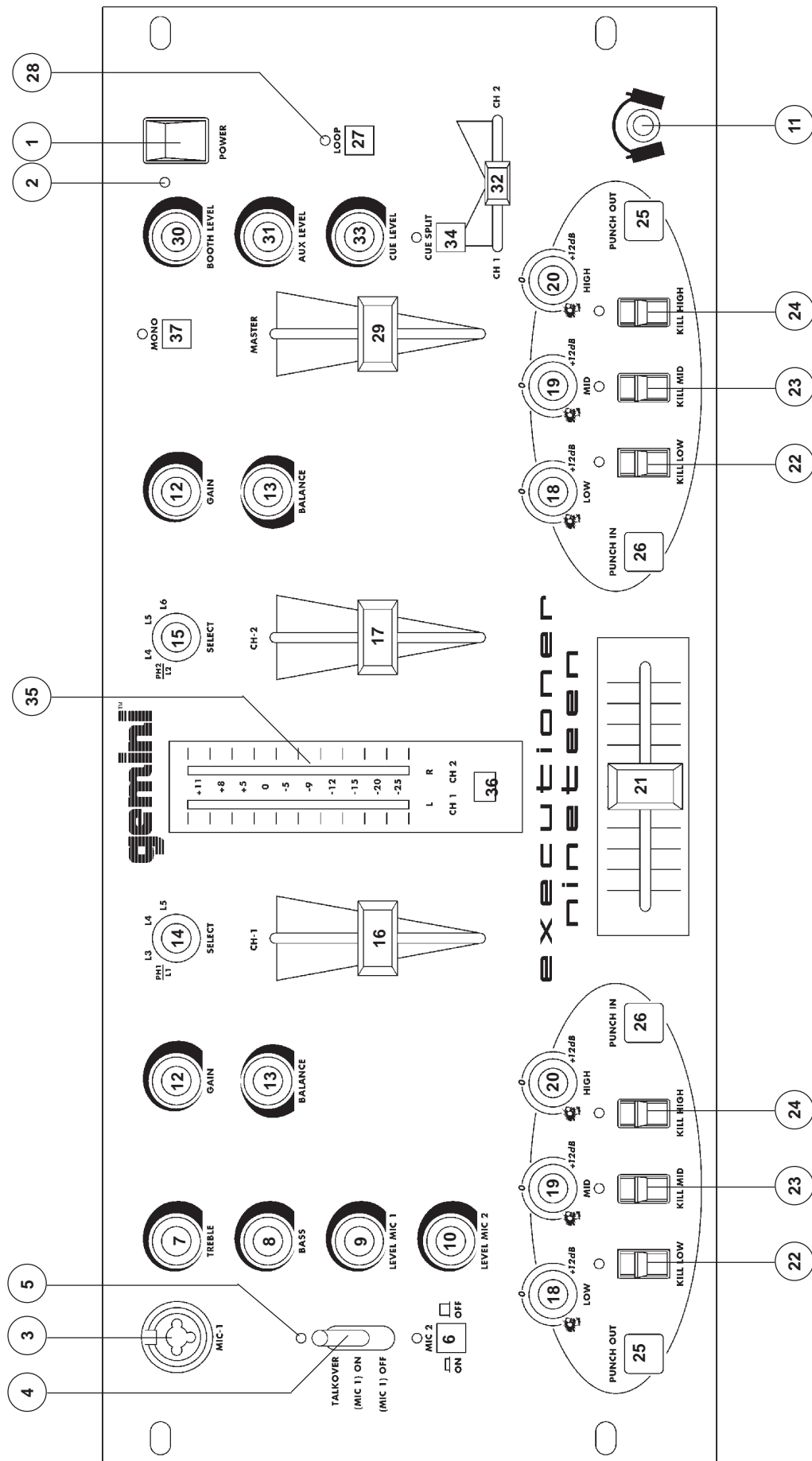
PROFESSIONAL STEREO PREAMP MIXER

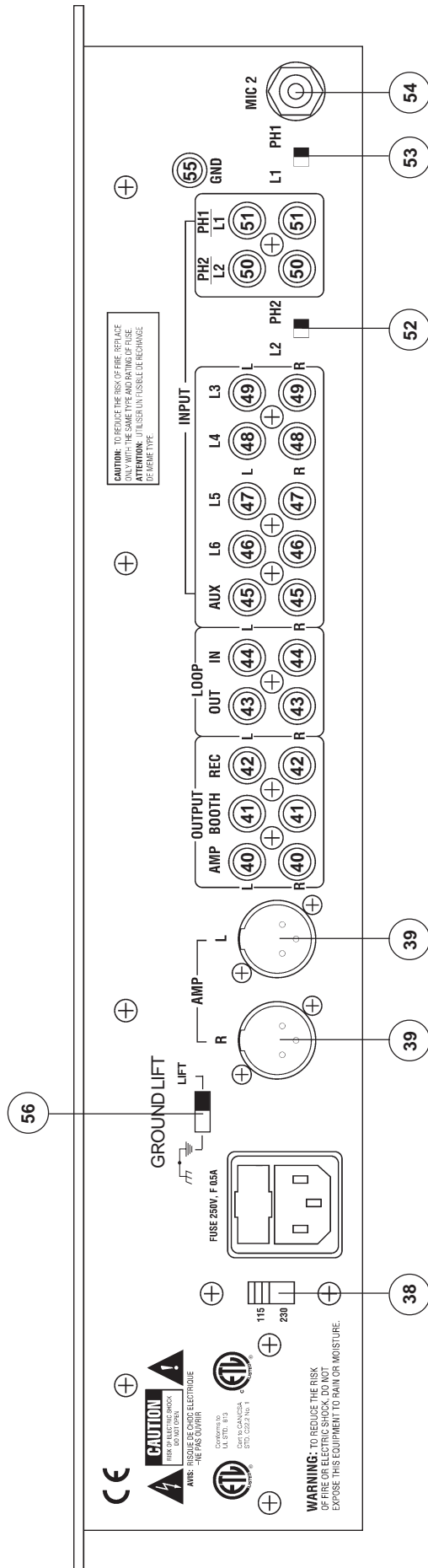
Professioneller Stereo Vorverstärkermischpult

Mezclador-preamplificador estereofónico para el profesional

Mélangeur-préamplificateur stéréophonique pour le professionnel

Miscelatore-preamplificatore stereofonico per il professionale





Introduction

Congratulations on purchasing the Gemini KL-19 mixer. This state of the art mixer is backed by a three year warranty, excluding crossfader and channel slides. Prior to use, we suggest that you carefully read all the instructions.

Features

- Kill Feature for Low, Mid and High for Channels I and II
- 3 Stereo Channels (channel I, channel II and aux)
- 2 Phono/Line Convertible, 4 Line, 1 Aux and 2 Mic Inputs
- Gain and Balance controls for Channels I and II
- Punch In and Punch Out for Channels I and II
- Loop
- Balanced and Unbalanced Master Outputs
- Booth and Record outputs
- Dual mode display

Cautions

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.

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.

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.
6. DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.
7. 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 (38)** 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 KL-19 is supplied with 2 sets of amp output jacks. The **BALANCED OUTPUT AMP (39)** jacks are used to connect to your main amplifier using standard XLR cables. We recommend using the balanced amp outputs if the cables to your amp are 25 feet or more. Balanced outputs have three separate conductors, two of which are signal (positive and negative) and one shield (ground). Pin 1 is ground (shield). Pin 2 is signal hot (positive). Pin 3 is signal cold (negative). The **OUTPUT AMP (40)** jacks are unbalanced and used to connect to your main amplifier. The **OUTPUT REC (42)** jacks can be used to connect the mixer to the record input of your recorder

enabling you to record your mix. The **OUTPUT BOOTH (41)** jacks allow you to hook up an additional amplifier.

4. The **DJ MIC-1 (3)** input (found on the front panel) accepts a 1/4" or XLR connector and the **DJ MIC-2 (54)** input (found on the rear panel) accepts only a 1/4" connector. Both accept balanced and unbalanced microphones.
5. On the rear panel are 2 stereo **PHONO/LINE (50, 51)** inputs, 4 stereo **LINE (49, 48, 47, 46)** inputs and 1 set of **AUX (45)** inputs. The **PHONO/LINE SWITCHES (52, 53)** enable you to set the **(50, 51)** inputs to Phono or Line. The phono inputs will accept only turntables with a magnetic cartridge. A **GROUND SCREW (55)** 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.
6. Headphones can be plugged into the front panel mounted **HEADPHONE (11)** jack.
7. There are **LOOP INPUTS (44)** and **LOOP OUTPUTS (43)** located on the rear panel. If you are using an outboard signal enhancer, you can use the **LOOP OUTPUTS (43)** to send the signal to the device and the **LOOP INPUTS (44)** to bring the signal back in to the mixer. The unit comes with jumpers to be used with the loop inputs and outputs. Keep the jumpers in the unit if you are not using the loop to prevent interruptions in your music program by the accidental touching of the loop button.

Using the Ground Lift Switch

Depending on your system configuration, sometimes applying the ground will create a quieter signal path. Sometimes lifting the ground can eliminate ground loops and hum to create a quieter signal path.

1. With the mixer on, listen to the system in idle mode (no signal present) with the ground applied (the **GROUND LIFT SWITCH (56)** in the left position).
2. **Then turn the power off before moving the GROUND LIFT SWITCH (56).** Lift the ground by moving the **GROUND LIFT SWITCH (56)** to the right, turn the power back on and listen to determine which position will provide a signal devoid of background noise and hum. Keep the **GROUND LIFT SWITCH** in the ground position if the noise level remains the same in either position.

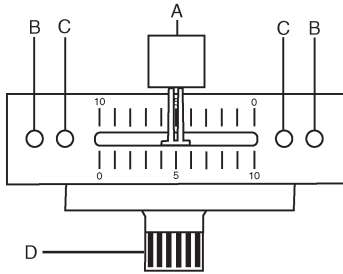
CAUTION: DO NOT TERMINATE THE AC GROUND ON THE POWER MIXER IN ANY WAY. TERMINATION OF THE AC GROUND CAN BE HAZARDOUS.

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. **CHANNEL I:** The **GAIN (12)**, **BALANCE (13)**, **HIGH (20)**, **MID (19)**, and **LOW (18)** controls allow you to fully adjust the selected source. Switch # **(14)** allows you to select the **PHONO 1/LINE 1 (51)**, **LINE 3 (49)**, **LINE 4 (48)**, or the **LINE 5 (47)** input. The **CHANNEL SLIDE (16)** controls the output level of this channel.
3. **CHANNEL II:** The **GAIN (12)**, **BALANCE (13)**, **HIGH (20)**, **MID (19)**, and **LOW (18)** controls allow you to fully adjust the selected source. Switch # **(15)** allows you to select the **PHONO 2/LINE 2 (50)**, **LINE 4 (48)**, **LINE 5 (47)** or the **LINE 6 (46)** input. The **CHANNEL SLIDE (17)** controls the output level of this channel.
4. **AUX CHANNEL:** The **AUX LEVEL (31)** controls the **AUX INPUT (45)**.
5. **CROSSFADER SECTION:** The **CROSSFADER (21)** allows the mixing of one source into another. The left side of the **CROSSFADER (21)** is channel I and the right side is channel II. The **CROSSFADER (21)** in your unit is removable and if the need arises can be easily replaced. Crossfader units are available in three varieties. Part # RF-45 (which

is identical to the crossfader supplied with the mixer) has a 45 mm travel from side to side. Part # RF-30 is available with a 30 mm travel distance. Also available is the PSF-45 with a special curve designed for scratch mixing. Just purchase one 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. **KILLING FREQUENCIES:** There are two ways to kill frequencies, using the **LOW, MID** and **HIGH KILL SWITCHES (22, 23, 24)** and using the **LOW, MID** and **HIGH ROTARY CONTROLS (18, 19, 20)**. When the selected **KILL SWITCH** is activated the LED will light and the frequency will be killed. When the selected **ROTARY CONTROL** is turned all the way to the left, the frequency will be killed. You can also use the **ROTARY CONTROLS** to boost frequencies up to +12 dB. The normal setting for the **ROTARY CONTROLS** is zero.

SUGGESTION: You can use the Kill Features on each channel to remove Low, Mid and/or High bands for a smoother mix and to mix frequencies from both channels to create special effects.

7. **PUNCH IN:** The **PUNCH IN BUTTON (25)** allows you to add a channel's signal to the mix when the crossfader is set to the opposite channel.
8. **PUNCH OUT:** The **PUNCH OUT BUTTON (26)** allows you to remove a channel's signal from the mix when the crossfader is set to that channel.

SUGGESTION: Keep the crossfader in the center and use the punch in and punch out of both channels together to create scratch type effects.

9. **LOOP SECTION:** To activate loop, press the **LOOP BUTTON (27)** and the **LOOP LED (28)** will light. When the **LOOP LED** is lit, any device connected to the **LOOP OUTPUT (43)** and **INPUT (44)** jacks will be inserted into the signal path.
10. **OUTPUT CONTROL SECTION:** The level of the **AMP OUT (39, 40)** is controlled by the **MASTER (29)** slide. The **BOOTH (30)** control adjusts the level of the **BOOTH OUTPUT (41)**. 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. Activating the **MONO (37)** button (the mono LED will light) makes the overall output mono.

NOTE: The **RECORD OUT (42)** has no level control. The level is set by the channel slides and the gain controls of the selected channel. The tonal qualities are set by the bass, treble and mid controls of that same channel.

11. **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. The **MIC/TALKOVER SWITCH (4)** has three settings. When the **MIC/TALKOVER SWITCH (4)** is in the bottom position, MIC I and talkover are both off. When the **MIC/TALKOVER SWITCH (4)** is in the center position MIC I is on, the **MIC INDICATOR (5)** will glow, but talkover is off. When the **MIC/TALKOVER SWITCH (4)** is in the top position, MIC I and talkover will be on and the volume of all

sources except the Mic inputs are lowered by 16 dB. The **TREBLE (7)** and **BASS (8)** controls allow you to fully adjust the tone of MIC I and MIC II. **MIC I LEVEL (9)** controls the level of MIC I. The **MIC II (6)** button activates MIC II and the **MIC II LEVEL (10)** controls the level of MIC II.

12. **CUE SECTION:** By connecting a set of headphones to the **HEADPHONE (11)** jack, you can monitor either channel or both together. Select the Channel I by sliding the **CUE SLIDER (32)** control to the left or Channel II by sliding the **CUE SLIDER (32)** control to the right. Use the **CUE LEVEL (33)** control to adjust the headphone volume without effecting the overall mix. Use the **CUE SPLIT (34)** button to split the signals from each channel so that channel I will be heard in one earphone and channel II will be heard in the other earphone.
13. **DISPLAY:** The dual function **DISPLAY (35)** indicates either the **MASTER OUTPUT (39, 40)** left and right levels or the channel I and channel II levels. You can choose the option you want by pressing the **DISPLAY (36)** button.

NOTE: When the **DISPLAY (35)** is in the channel I / channel II display mode, by adjusting the individual channel gain and tone controls, you can increase or decrease the signal to match the other channel's signal. The channel slides and crossfader have no effect on the display readings.

Specifications

INPUTS:

DJ Mic.....	1.5mV 2Kohm balanced
Phono.....	3mV 47Kohm
Line.....	150 mV 27Kohm
Aux.....	150 mV 27Kohm

OUTPUTS:

Amp/Booth.....	0 dB 1V 400ohm
Max.....	24V Peak to Peak
Rec.....	225mV 5Kohm

MICs:

Bass.....	± 12dB
High.....	± 12dB

GENERAL:

Bass (Chnls I - II).....	+ 12dB/Kill
Mid (Chnls I - II).....	+ 12dB/Kill
Treble (Chnls I - II).....	+ 12dB/Kill
Gain (Chnls I - II).....	0 to -20dB
Frequency Response.....	20Hz - 20KHz +/- 2dB
Distortion.....	0.02%
S/N Ratio.....	better than 80dB
Talkover Attenuation.....	-16dB
Headphone Impedance.....	16ohm
Power Source.....	115/230V 50/60Hz 10W
Dimensions.....	19" w x 3 1/2" h x 8" d
Weight.....	10 lbs



**In the USA: If you experience problems with this unit,
call 1-732-738-9003 for Gemini Customer Service.**

Do not attempt to return this equipment to your dealer.

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