

Important safety instructions



Caution!

To reduce the risk of electric shock, do not remove the top cover (or the rear section). There are no user serviceable parts inside. Refer servicing to qualified personnel.

Caution!

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus must not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, should be placed on the apparatus.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual carefully.



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.

- 11) Where the MAINS plug or an appliance coupler is used as the disconnected device, the disconnected device must remain readily operable. [Two images below]



- 12) Only use attachments/accessories specified by the manufacturer.
- 13) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or those sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury.
- 14) Unplug this apparatus during lightning storms or when left unused for long periods of time.
- 15) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Before you get started Shipment

Your mixing console was carefully packed in the factory to guarantee safe transport. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage, which may have occurred during transit.

- ☞ If the unit is damaged, please do NOT return it to us, but notify your dealer and the shipping company immediately, otherwise claims for damage or replacement may not be granted.

Initial operation

Be sure that there is enough space around the unit for cooling purposes. To avoid overheating, please do not place your mixing console on high-temperature devices such as radiators or power amps. The console is connected to the mains via the supplied cable. The console meets the required safety standards. Blown fuses must only be replaced by fuses of the same type and rating.

- ☞ Please note that all units must be properly grounded. For your own safety, you should never remove any ground connectors from electrical devices or power cables, or render them inoperative.
- ☞ Please ensure that only qualified individuals install and operate the mixing console. During installation and operation, the user must have sufficient electrical contact to earth, otherwise electrostatic discharges might affect the operation of the unit.

Introduction

Please read through this manual carefully before beginning use, so that you will be able to take full advantage of this mixer's superlative features.

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Caution!

- 1) Keep these instructions.
- 2) Heed all warnings.
- 3) Follow all instructions.
- 4) Do not use this apparatus near water.
- 5) Clean only with a dry cloth.
- 6) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 7) Do not install near any sources of heat such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 8) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 9) Place the power cord so that it is protected from being walked on and sharp edges. Be sure that the power cord is protected particularly at the plug, convenience receptacles and the point where it exits from the apparatus.
- 10) The apparatus must be connected to a MAINS socket outlet with a protective earthing connection.

You've got yourself a mixer and now you're ready to use it.

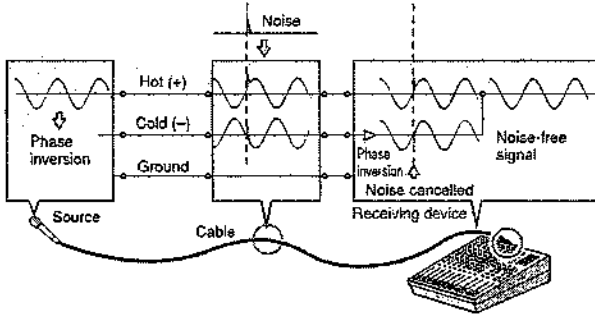
Just plug everything in, twiddle the controls, and away you go... right?

Well, if you've done this before you won't have any problems, but if this is the first time you've ever used a mixer you might want to read through this tutorial and pick up a few basics that will help you get better performance and make better mixes.

Balanced/Unbalanced—What's the Difference?

In a word: "noise." The whole point of balanced lines is noise rejection, and it's something they're very good at. Any length of wire will act as an antenna to pick up the random electromagnetic radiation we're constantly surrounded by: radio and TV signals as well as spurious electromagnetic noise generated by power lines, motors, electric appliances, computer monitors, and a variety of other sources. The longer the wire, the more noise it is likely to pick up. That's why balanced lines are the best choice for long cable runs. If your "studio" is basically confined to your desktop and all connections are no more than a meter or two in length, then unbalanced lines are fine - unless you're surrounded by extremely high levels of electromagnetic noise. Another place balanced lines are almost always used is in microphone cables. The reason for this is that the output signal from most microphones is very small, so even a tiny amount of noise will be relatively large, and will be amplified to an alarming degree in the mixer's high-gain head amplifier.

Balanced noise cancellation

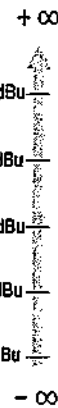


To summarize

Microphones	Use balanced lines.
Short line level runs	Unbalanced lines are fine if you're in a relatively noise-free environment.
Long line level runs	The ambient electromagnetic noise level will be the ultimate deciding factor, but balanced is best.

Signal Levels and the Decibel

Let's take a look at one of the most commonly used units in audio: the decibel (dB). If the smallest sound that can be heard by the human ear is given an arbitrary value of 1, then the loudest sound that can be heard is approximately 1,000,000 (one million) times louder. That's too many digits to deal with for practical calculations, and so the more appropriate "decibel" (dB) unit was created for sound-related measurements. In this system, the difference between the softest and loudest sounds that can be heard is 120 dB. This is a non-linear scale, and a difference of 3 dB actually results in a doubling or halving of the loudness. You might encounter a number of different varieties of the dB: dBu, dBV, dBm and others, but the dBu is the basic decibel unit. In the case of dBu, "0 dBu" is specified as a signal level of 0.775 volts. For example, if a microphone's output level is -40 dBu (0.00775 V), then to raise that level to 0 dBu (0.775 V) in the mixer's preamp stage requires that the signal be amplified by 100 times. A mixer may be required to handle signals at a wide range of levels, and it is necessary to match input and output levels as closely as possible. In most cases the "nominal" level for a mixer's input and outputs is marked on the panel or listed in the owner's manual.



Most professional mixers, power amplifiers, and other types of equipment have inputs and outputs with a nominal level of +4 dBu.

The inputs and outputs on home-use audio gear usually have a nominal level of -7.8 dBu (-10 dBV).

Microphone signal levels vary over a wide range depending on the type of microphone and the source. Average speech is about -30 dBu, but the twittering of a bird might be lower than -50 dBu while a solid bass drum beat might produce a level as high as 0 dBu.

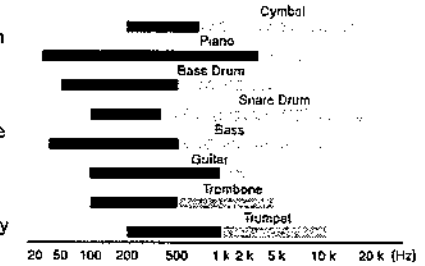
EQ or not to EQ

In general: less is better. There are many situations in which you'll need to cut certain frequency ranges, but use boost sparingly, and with caution. Proper use of EQ can eliminate interference between instruments in a mix and give the overall sound better definition. Bad EQ - and most commonly bad boost - just sounds terrible.

Cut for cleaner mix

For example: cymbals have a lot of energy in the mid and low frequency ranges that you don't really perceive as musical sound, but which can interfere with the clarity of other instruments in these ranges. You can basically turn the low EQ on cymbal channels all the way down without changing the way they sound in the mix. You'll hear the difference, however, in the way the mix sounds more "spacious," and instruments in the lower ranges will have better definition. Surprisingly enough, piano also has an incredibly powerful low end that can benefit from a bit of low-frequency roll-off to let other instruments - notably drums and bass - do their jobs more effectively. Naturally you won't want to do this if the piano is playing solo. The reverse applies to kick drums and bass guitars: you can often roll off the high end to create more space in the mix without compromising the character of the instruments. You'll have to use your ears, though, because each instrument is different and sometimes you'll want the "snap" of a bass guitar, for example, to come through.

The fundamental and harmonic frequency ranges of some musical instruments.



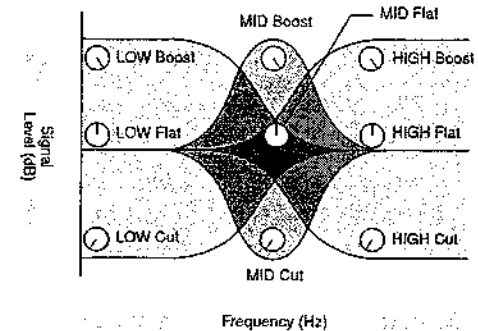
- Fundamental:** The frequency that determines the basic musical pitch.
- Harmonics:** Multiples of the fundamental frequency that play a role in determining the timbre of the instrument.

Some Frequency Facts

The lowest and highest frequencies that can be heard by the human ear are generally considered to be around 20 Hz and 20,000 Hz, respectively. Average conversation occurs in the range from about 300 Hz to about 5,000 Hz. The frequency of a standard pitchfork used to tune guitars and other instruments is 440 Hz (this corresponds to the "A3" key on a piano tuned to concert pitch). Double this frequency to 880 Hz and you have a pitch one octave higher (i.e. "A4" on the piano keyboard). In the same way you can halve the frequency to 220 Hz to produce "A2" an octave lower.

Boost with Caution

If you're trying to create special or unusual effects, go ahead and boost away as much as you like. But if you're just trying to achieve a good-sounding mix, boost only in very small increments. A tiny boost in the midrange can give vocals more presence, or a touch of high boost can give certain instruments more "air". Listen, and if things don't sound clear and clean try using cut to remove frequencies that are cluttering up the mix rather than trying to boost the mix into clarity. One of the biggest problems with too much boost is that it adds gain to the signal, increasing noise and potentially overloading the subsequent circuitry.



Ambience

Your mixes can be further refined by adding ambience effects such as reverb or delay. Internal effects can be used to add reverb or delay to individual channels in the same way as external effects processors.

Reverb and Delay Time

The optimum reverb time for a piece of music will depend on the music's tempo and density, but as a general rule longer reverb times are good for ballads, while shorter reverb times are more suited to up-tempo tunes. Delay times can be adjusted to create a wide variety of "grooves". When adding delay to a vocal, for example, try setting the delay time to dotted eighth notes corresponding to the tune's tempo.

Reverb Tone

Different reverb programs will have different "reverb tone" due to differences in the reverb time of the high or low frequencies. Too much reverb, particularly in the high frequencies, can result in unnatural sound and interfere with the high frequencies in other parts of the mix. It's always a good idea to choose a reverb program that gives you the depth you want without detracting from the clarity of the mix.

Reverb Level

It's amazing how quickly your ears can lose perspective and fool you into believing that a totally washed-out mix sounds perfectly fine. To avoid falling into this trap start with reverb level all the way down, then gradually bring the reverb into the mix until you can just hear the difference. Any more than this normally becomes a "special effect."

The Modulation Effects:

Phasing, Chorus, and Flanging

All of these effects work on basically the same principle: a portion of the audio signal is "time-shifted" and then mixed back with the direct signal. The amount of time shift is controlled, or "modulated", by an LFO (Low-frequency Oscillator).

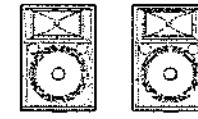
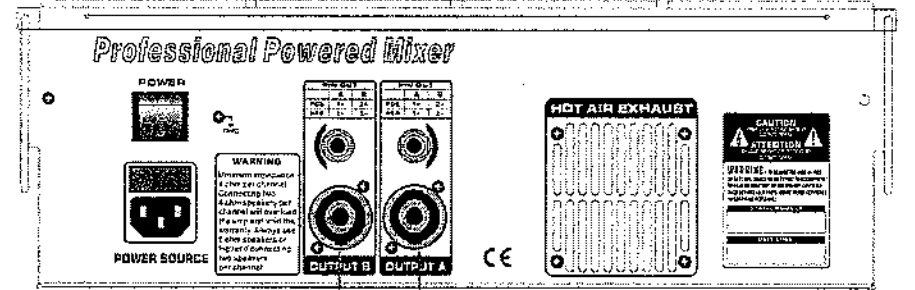
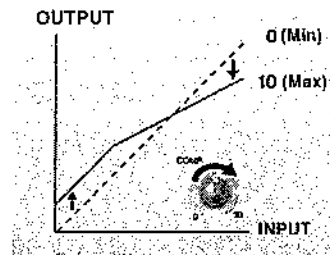
For phasing effects the shift is very small. The phase difference between the modulated and direct signals causes cancellation at some frequencies and reinforces the signal at others and this causes the shimmering sound we hear.

For chorus and flanging the signal is delayed by several milliseconds, with the delay time modulated by an LFO, and recombined with the direct signal. In addition to the phasing effect described above, the delay modulation causes a perceived pitch shift which, when mixed with the direct signal, results in a harmonically rich swirling or swishing sound. The difference between chorus and flanging effects is primarily in the amount of delay time and feedback used—flanging uses longer delay times than chorus, whereas chorus generally uses a more complex delay structure. Chorus is most often used to thicken the sound of an instrument, while flanging is usually used as an outright "special effect" to produce otherworldly sonic swoops.

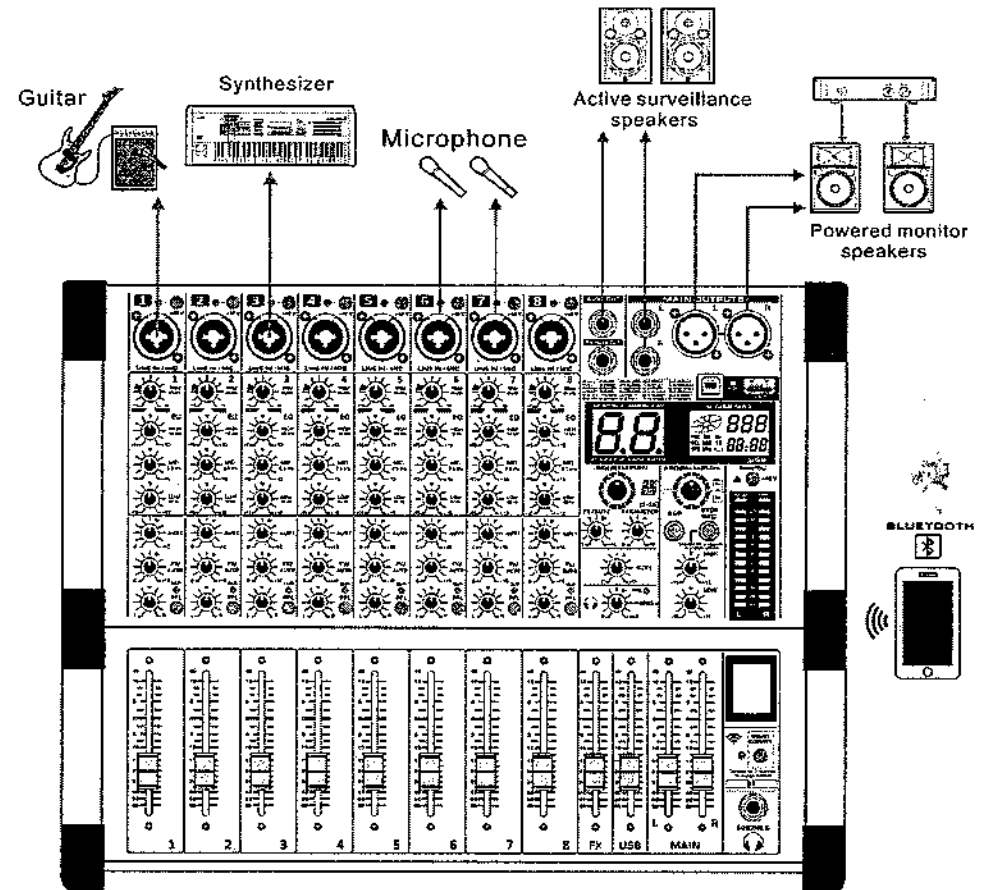
Compression

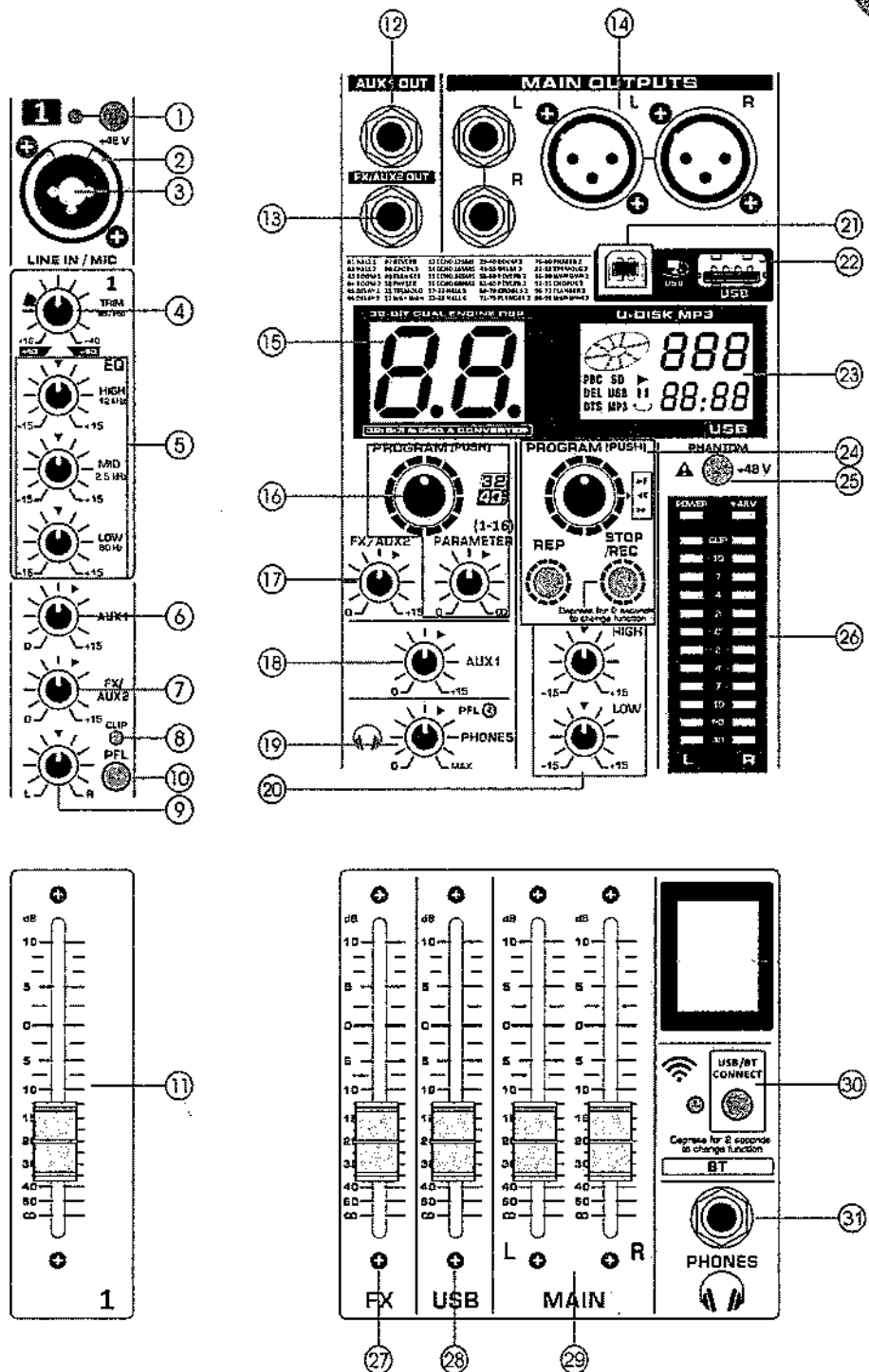
One form of compression known as "limiting" can, when properly used, produce a smooth, unified sound with no excessive peaks or distortion. A common example of the use of compression is to "tame" a vocal that has a wide dynamic range in order to tighten up the mix. With the right amount of compression you'll be able to clearly hear whispered passages while passionate shouts are still well balanced in the mix. Compression can also be valuable on bass guitar. Too much compression can be a cause of feedback, however, so use it sparingly.

Most compressors require several critical parameters to be set properly to achieve the desired sound. The compressor makes achieving great sound much easier: all you need to do is set a single "compression" control and all of the pertinent parameters are automatically adjusted for you.



speakers





1. Phantom 48V shunt switch

48V LED lights up when phantom power is switched on. This switch switches the Phantom power on and off. When the switch is a branch channel that supplies 48V Phantom power in the mixer, there is an XLR microphone input jack. Turn this switch on when using a phantom powered capacitor microphone.

2. MIC Input jacks

These are balanced XLR-type microphone input jacks. (1: Ground; 2: Hot; 3: Cold).

3. LINE Input jacks (monaural channels)

These are balanced TRS phone-jack line inputs. (T: Hot; R: Cold; S: Ground). You can connect either balanced or unbalanced phone plugs to these jacks.

4. TRIM Control

Adjusts the input signal level. To get the best balance between the S/N ratio and the dynamic range, adjust the gain so that the PEAK indicator lights only occasionally and briefly on the highest input transients. The +10 to +60 scale is the MIC input adjustment range. The +10 to -40 scale is the LINE input adjustment range.

5. Equalizer (HIGH, MID and LOW)

This three-band equalizer adjusts the channel's high, mid and low frequency bands. Setting the knob to the "0" position produces a flat response in the corresponding band. Turning the knob to the right boosts the corresponding frequency band, while turning to the left attenuates the band.

6. AUX1 Control

Monitor and effects busses (AUX1 sends) source their signals via a control from one or more channels and sum these signals to a so-called bus. This bus signal is sent to an aux send connector (for monitoring applications: MON OUT) and then routed, for example, to an active monitor speaker or external effects device. In the latter case, the effects return can then be brought back into the console via the aux return connectors. All monitor and effects busses are mono, are tapped into post EQ and offer amplification of up to +15dB.

7. FX/AUX2 Control

The aux send marked FX/AUX2 offers a direct route to the built-in effects processor and is therefore post-fader and post-mute.

8. CLIP LED

The PEAK-LED lights up when the input signal is driven too high. If this happens, back off the TRIM control and, if necessary, check the setting of the channel EQ.

9. PAN Control

The PAN control determines the position of the channel signal within the stereo image. When working with subgroups, you can use the PAN control to assign the signal to just one output, which gives you additional flexibility in recording situations. For example, when routing to subgroups 3 and 4, panning hard left will route the signal to group output 3 only, and panning hard right will route to group output 4 only.

INSTRUCTIONS FOR USE

10. PFL SWITCH

The PFL switch is used to route the channel signal to the solo bus (Solo In Place) or to the PFL bus (Pre Fader Listen). This enables you to listen to a channel signal without affecting the main output signal. The signal you hear is taken either before the pan control (PFL, mono) or after the pan and channel fader (Solo, stereo)

11. CHANNEL FADER

Adjusts the level of the channel signal. Use these faders to adjust the balance between the various channels.

12. AUX1 OUT Control

Use this fader to control AUX1 output jack.

13. FX / AUX2 OUT Control

Use this fader to control FX/AUX2 output jack.

14. MAIN OUT (L, R) Jacks

These jacks deliver the mixer's stereo output. You use these jacks, for example, to connect to the power amplifier driving your main speakers.

15. EFFECTOR DISPLAY

Show the kind of effector.

16. PROGRAM Dial

You can select the effect preset by turning the PROGRAM control. The display flashes with the number of the current preset. To recall the selected preset, press on the button; the flashing stops. You can also recall the selected preset with the foot switch.

PARAMETER Control

Adjusts the parameter (depth, speed, etc.) for the selected effect. The last value used with each effect type is saved.

17. FX/AUX2 Control

Use this fader to control FX/AUX2 output jack.

18. AUX1 Control

Use this fader to control AUX1 output jack.

19. PHONES/CTRL ROOM ONLY Control

Use this control to adjust the control room output level and the headphones volume.

20. MP3 PLAY EQ

The two-band equalizer adjusts the level of the MP3 player.

21. Computer USB Contacted Jack

Used USB cable line to contact with computer & mixer, mixer could be play computer audio, computer could be recording the mixer output audio.

22. MP3 player jack

USB can be play through U-DISK.

23. MP3 PLAY window

Show the MP3 playing, time, song name and other play instruction.

24. MP3 switch

STOP: stop play (Put on the switch of STOP 2 seconds to recording. Keep to put 2 seconds to STOP recording. Put on the coder 2 seconds can be exchange the recording file and U-DISK music.

PLAY: play music PREV: last song NEXT: next song REP: single or cycle play.

PROGRAM Dial

You can select the MP3 preset by turning the PROGRAM control. The display flashes with the number of the current preset. To recall the selected preset, press on the button; the flashing stops.

25. PHANTOM +48V Switch

This switch toggles phantom power on and off. When the switch is on the mixer supplies +48V phantom power to all channels that have XLR mic input jacks. Turn this switch on when using one or more phantom-powered condenser microphones.

26. Level Meter

Shows the level signal strength.

NOTE: The "0" segment corresponds to the nominal output level. The PEAK indicator lights up when the output reaches the clipping level.

27. FX SEND Fader

Control effect input signal level.

28. USB VOL Fader

Change VOL button can be control the VOL of USB.

29. MAIN MIX Fader

You use the high-precision quality faders to control the output level of the main mix.

30. BLUETOOTH

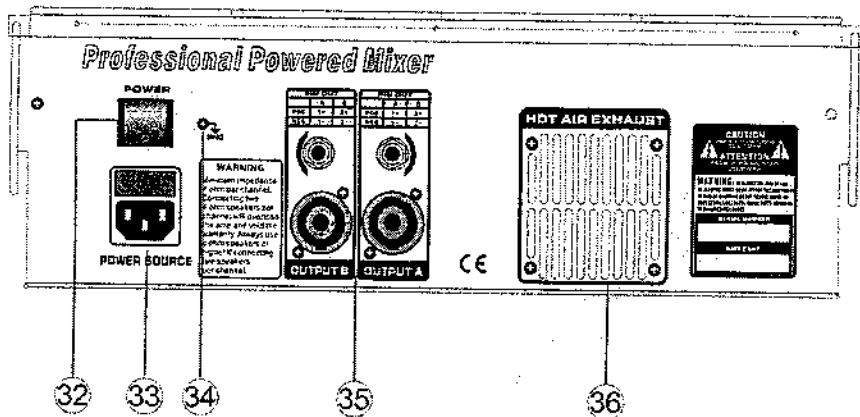
Contact mobile phone or tablet PC

Contact way: Put on CONTACT SWITCH two second, the Signal light, used mobile phone or tablet pc to choose (MIXER-01) to contact.

Put on CONTACT SWITCH to stop contact bluetooth, if you want to turn off bluetooth then change to used another mobile phone or tablet PC to contact, please put on CONTACT SWITCH two second, then choose (MIXER-01).

31. PHONES Jack

Connect a pair of headphones to this TRS phone-type output jack.

**32: POWER Switch**

Use the POWER switch to turn on the mixing console. The POWER switch should always be in the "Off" position when you are about to connect your unit to the mains. To disconnect the unit from the mains, pull out the main cord plug. When installing the product, ensure that the plug is easily accessible.

33: FUSE HOLDER/IEC MAINS RECEPTACLE

The console is connected to the mains via the cable supplied, which meets the required safety standards. Blown fuses must only be replaced by fuses of the same type and rating. The mains connection is made via a cable with IEC mains connector. An appropriate mains cable is supplied with the equipment.

34: GND

Contact GND order to avoid leakage

35: AMPLIFIER OUTPUT

Can be contact with speaker to here

NOTE: WARNING

Minimum impedance 4 ohm per channel. Connecting two 4 ohm speakers per channel will overload the amp and avoid the warranty. Always use 8 ohm speakers or higher if connecting two speakers per channel.

36: COOLING FAN

Cooling the amplifier to avoid the amplifier too hot to be broken.

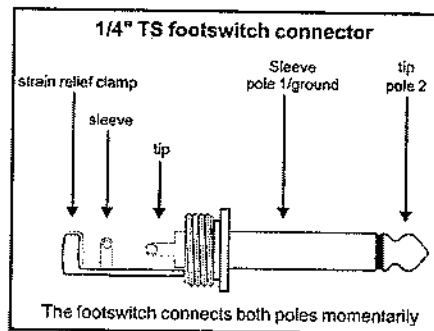
INSTALLATION**Rack mounting**

The packaging of your mixing console contains two 19" rack mounts for installation on the side panels of the console. Before you can attach the rack mounts to the mixing console, you need to remove the screws holding the left and right side panels. Then, use these screws to fasten the two rack mounts each specifically to one side. With the rack mounts installed, you can mount the mixing console in a commercially available 19" rack. Be sure to allow for proper air flow around the unit, and do not place the mixing console close to radiators or power

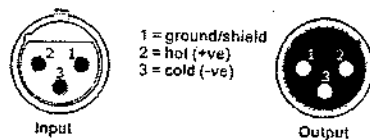
Only use the screws holding the mixing console side panels to fasten the 19" rack mounts.

Cable connections

You will need a large number of cables for the various connections of the console. The illustrations below show the wiring of these cables. Be sure to use only high-grade cables.

**Foot switch connector****Audio connections**

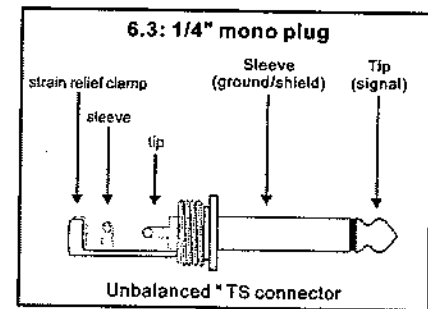
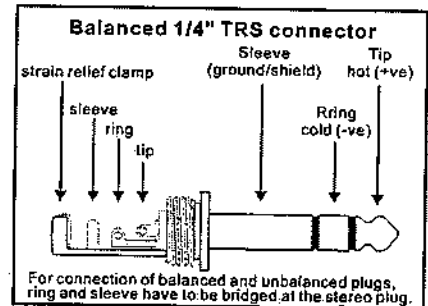
Please use commercial RCA cables to wire the 2-track inputs and outputs. You can, of course, also connect unbalanced devices to the balanced input/outputs. Use either mono plugs, or use stereo plugs to link the ring and shaft (or pins 1 and 3 in the case of XLR

Balanced use with XLR connectors

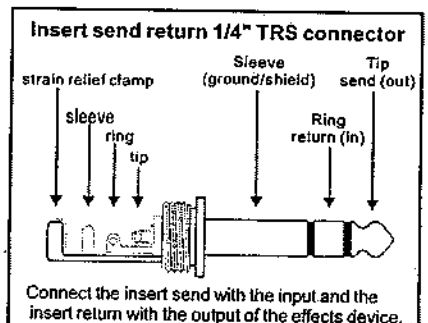
For unbalanced use, pin 1 and pin 3 have to be bridged

XLR connections

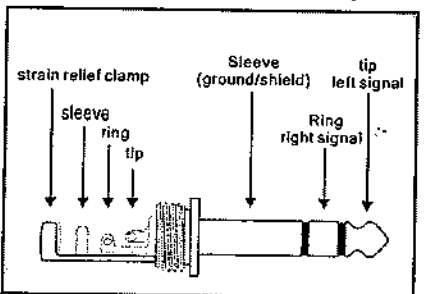
Caution! You must never use unbalanced XLR connectors (PIN 1 and 3 connected) at the MIC input jacks if you want to use the phantom power supply.

**Unbalanced 1/4 inch TS connector****6.3 inch 1/4 inch mono plug**

For connection of balanced and unbalanced plugs, ring and sleeve have to be bridged at the stereo plug.

Balanced 1/4 inch TRS connector

Connect the insert send with the input and the insert return with the output of the effects device.

Insert send/return stereo plug**1/4 inch TRS headphones connector**

Specifications

MICROPHONE INPUTS

Type	XLR, electronically balanced, discrete input circuit
Max E.I.N. (20 Hz - 20 kHz)	
@ 0 Ω source resistance	-134 dB / 135.7 dB A-weighted
@ 50 Ω source resistance	-131 dB / 133.3 dB A-weighted
@ 150 Ω source resistance	-129 dB / 130.5 dB A-weighted
Frequency response	< 10 Hz - 150 kHz (-1 dB), < 10 Hz - 200 kHz (-3 dB)
Gain range	+10 to +60 dB
Max. input level	+12 dBu @ +10 dB Gain
Impedance	approx. 2.6 k Ω balanced
Signal-to-noise ratio	116 dB / 112 dB A-weighted (0 dBu In @ +22 dB gain)
Distortion (THD+N)	0.005% / 0.004% A-weighted
Line input	
Type	1/4" TRS connector electronically balanced
Impedance	approx. 20 k Ω balanced
	10 k Ω unbalanced
Gain range	+10 to -40 dB
Max. input level	30 dBu

FADE-OUT ATTENUATION* (CROSSTALK ATTENUATION)

Main fader closed	90 dB
Channel muted	89 dB
Channel fader closed	89 dB

FREQUENCY RESPONSE

Microphone input to main out	
< 10 Hz - 90 kHz	+0 dB / -1 dB
< 10 Hz - 160 kHz	+0 dB / -3 dB
Stereo inputs	
Type	1/4" TRS connector, electronically balanced
Impedance	approx. 20 k Ω
Max. input level	+22 dBu
EQ mono channels	
Low	80 Hz / ± 15 dB
Mid	2.5 kHz / ± 15 dB
High	12 kHz / ± 15 dB
EQ stereo channels	
Low	80 Hz / ± 15 dB
Mid	2.5 kHz / ± 15 dB
High	12 kHz / ± 15 dB
Aux sends	
Type	1/4" TS connector, unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu

Stereo aux returns

Type	1/4" TRS connector, electronically balanced
Impedance	approx. 20 k Ω bal. / 10 k Ω unbal.
Max. input level	+22 dBu

Main outputs

Type	XLR, electronically balanced and 1/4" TRS balanced
1622FX only:	1/4" TS connector unbalanced
Impedance	approx. 240 Ω symm. / 120 Ω unbalanced
Max. output level	+28 dBu
	+22 dBu

Control room outputs

Type	1/4" TS connector unbalanced
Impedance	approx. 120 Ω
Max. output level	+22 dBu

Headphones outputs

Type	1/4" TRS connector, unbalanced
Max. output level	+19 dBu / 150 Ω (+25 dBm)

DSP

Converter	32-bit Sigma-Delta, 64/128-times oversampling
Sampling rate	40 kHz

MAIN MIX SYSTEM DATA*

Noise	
Main mix @ - ∞	-101 dB
Channel fader @ - ∞	-100 dB
Main mix @ 0 dB,	
Channel fader @ - ∞	-93 dB
	-96 dB
	-87 dB
Main mix @ 0 dB,	
Channel fader @ 0 dB	-81 dB
	-83 dB
	-80 dB

Power supply

Mains voltage	230 V~, 50/60 Hz
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Power consumption

Fuse	230 V ~ 12 A 250 V
Mains connection	Standard IEC receptacle

Measuring conditions:

- 1: Refer to 0 dBu, 20 Hz - 20 kHz line eqn, main output, unity gain.
- 2: 20 Hz - 20 kHz measured at main output. Channels 1 - 4 unity gain; EQ flat. All channels on main mix; channels 1/3 as far left as possible, channels 2/4 as far right as possible. Reference = -6 dBu.

Troubleshooting

Power doesn't come on.	<ul style="list-style-type: none"> • Is the power line properly plugged into an AC wall outlet? • Are the power line and AC wall outlet connected correctly?
No sound.	<ul style="list-style-type: none"> • Are microphone, external devices, and speakers connected correctly? • Are the channel GAIN controls, channel fader, STEREO OUT Master fader and GROUP fader set to appropriate levels? • Are the speaker cables connected properly, or are they shorted? • If the above checks do not identify the problem, please contact the service center.
Sound is faint, distorted, or noisy.	<ul style="list-style-type: none"> • Are the channel MAIN controls, channel fader, STEREO OUT Master fader and GROUP fader set to appropriate levels? • Are two different instruments connected to the XLR-type and phone jacks, or to the phone and RCA pin jacks on one channel? Please connect to only one of these jacks on each channel. • Is the input signal from the connected device set to an appropriate level? • Are you applying the effects at an appropriate level? • Are microphone connected to the MIC input jacks? • If you are using condenser microphone, is the PHANTOM +48V switch turned on?
No effect is applied.	<ul style="list-style-type: none"> • Check that the EFFECT control on each channel is correctly adjusted. • Be sure that the FX control and EFFECT fader are correctly adjusted.
I want spoken words to be heard more clearly.	<ul style="list-style-type: none"> • Adjust the equalizers on each channel.
I want to output a monitor signal through speakers.	<ul style="list-style-type: none"> • Connect a powered speaker to the AUX jack, or to the AUX1 or 2 jack and turn the PRE switch on each channel on. Then adjust the output signal by using the AUX controls on each channel.
The level meter doesn't show the output signal level.	<ul style="list-style-type: none"> • Are the PEL switches for the channels that you are not using turned on?

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