

# Operating Instructions



**TX6000**

**6 Channel Mixer**



AUSTRALIAN MADE



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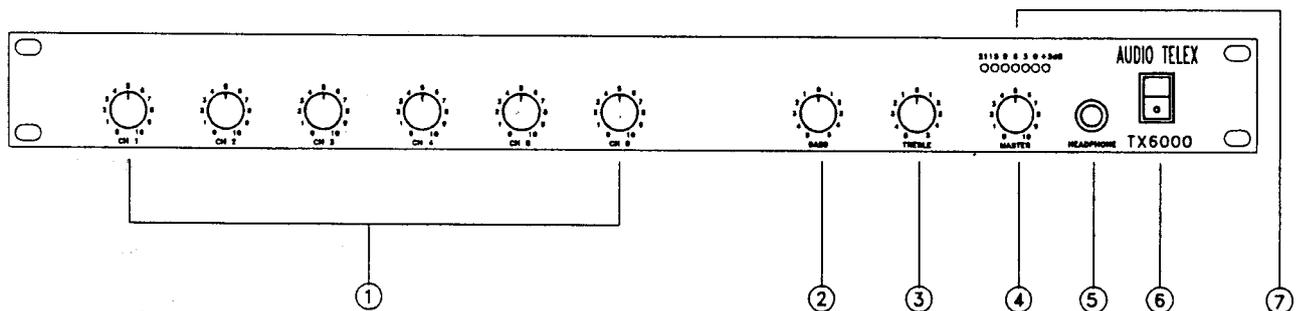
# TX6000

## 6 Channel Mixer

### Product Description

The TX6000 is a 6 channel audio mixer that operates from 240 VAC @ 50 Hz (or 110 VAC @ 60 Hz with factory modification) or 24 VDC via an external battery supply. The TX6000 is 1 standard rack unit high (44mm) and has a standard rack width of 482mm. For table mounting rubber feet are supplied but these can be removed if rack mounting is intended. Featuring six dual purpose inputs consisting of XLR balanced mic inputs and dual RCA aux/line level inputs. Channel 6 has a higher aux/line level input sensitivity to enable it to accept a CD player or similar high level input signal.

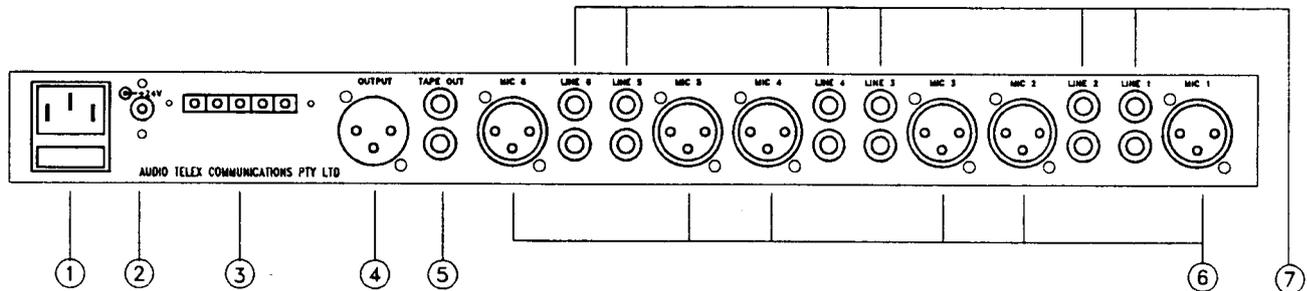
### Front Panel Controls



- Dual Microphone/Line Gain Controls:** The 6 dual mic/line input controls are marked Ch 1 through Ch 6 and should be adjusted to provide the required mix level for each individual channel. Start with the controls set to level 0 and turn the controls slowly clockwise until the desired mix for each channel is obtained.
- Bass Tonal Control:** Setting this control in the centre "zero" position will give an overall flat bass response to the output of the amplifier. Adjusting the bass control in a clockwise direction will provide up to +12 dB of bass boost @ 100 Hz. Adjusting the bass control in a counter-clockwise direction will provide up to -12 dB of bass cut @ 100 Hz.
- Treble Tonal Control:** Setting this control in the centre "zero" position will give an overall flat treble response to the output of the amplifier. Adjusting the treble control in a clockwise direction will provide up to +9 dB of treble boost @ 10 kHz. Adjusting the treble control in a counter-clockwise direction will provide up to -9 dB of treble cut at 10 kHz.
- Master Output Control:** This control adjusts the overall output level of the mixer depending on the levels set for the individual input mix channels as detailed above. Start with the control level set to level 0 and slowly turn the control clockwise until the desired output level of the mixer is reached.
- Headphone Output Socket:** A 1/4" TRS stereo socket is provided for the connection of monitor headphones. The output level to the headphones is a nominal 3.5 volts @ 600 ohms and is connected before the master output level controls so adjusting the output level controls will not effect the headphone output level.
- Power Switch:** This switch controls the switching of the AC power to the mixer. Rocking this switch upwards turns on AC power to the mixer while rocking the switch downwards turns power off to the mixer. When in the upward "On" position, the red neon in the body of the switch will glow.

7. **LED Display VU Meter:** Marked in decibel graduations from -21 dB to +3 dB, the light emitting diodes will indicate the volume level at the output of the mixer. For normal operation the LED's glow green as they modulate with the output level of the mixer. If the lights are consistently indicating red the mixer is being overdriven, resulting in distortion in the quality of the audio signal.

## Rear Panel Connections



1. **3 Pin IEC AC Mains Power Inlet:** The operating voltage is 240 VAC @ 50 Hz or 110 VAC @ 60 Hz. The AC power voltage is **not** externally user adjustable but is factory preset. The inlet is equipped with an inbuilt AC fuse holder fitted with a 0.5 amp slow blow fuse plus one spare. Power consumption is 15 VA. **Please ensure that the mains power cord is disconnected before attempting to check or replace this fuse.**
2. **24 Volts DC Power Source Connection:** 2.1mm DC power socket allows for the connection of an external 24 VDC battery for applications where PA system operation is imperative. The centre terminal post or pin is for connection to the positive (+) terminal. The sleeve is for connection to the negative (-) terminal.
3. **Spare Screw Terminals:** These spare screw terminals allow the connection of various optional tone module accessories. They are not connected to any point in the mixer from the factory and are spare.
4. **Line Output:** Male XLR style active balanced isolated output for connection to a power amplifier. Provides a maximum of 1.5V RMS output. Suitable for driving power amplifiers or similar devices. Pin connections are Pin 1 = Earth. Pin 2 = Active Positive (+). Pin 3 = Active Negative (-).
5. **Tape Output:** 2 x RCA style phono output connector for line level output. Provides a maximum of 700mV into 10K Ohms, ideal for a connection to most standard tape recorders. This output is sourced before the master gain control and as such the tape output level is not influenced by the operation of the master gain control.
6. **Microphone Inputs:** **Note: All inputs are universal line / microphone inputs. Both connectors can not be utilised for any one input channel.** Six female XLR inputs accept 200 Ohm balanced or unbalanced microphone inputs. Pin connections are Pin 1 = Earth. Pin 2 = Active Positive (+). Pin 3 = Active Negative (-).
7. **Line Inputs:** **Note: All inputs are universal line / microphone inputs. Both connectors can not be utilised for any one input channel.** Six pairs of RCA style phono input connectors accept unbalanced line or auxiliary inputs for channels 1 through 6. Channel 6 accepts higher level inputs such as a CD player.

## Special Facilities

**Phantom Power:** 18VDC is normally supplied to each of the six XLR microphone inputs. An internal link can be found on the internal circuit board PCB6220 to disconnect phantom power from all six inputs. ⚠ **It is necessary to disconnect the power cord and remove the lid from the mixer before operating this switch.**

## Optional Accessories

⚠ The installation of some of the following optional accessories involves access to the inside of the mixer. Installation should only be attempted by a qualified technician. Always turn off the AC power and remove the AC power cord before attempting to access the inside of the mixer. Please contact your nearest Audio Telex office for details of your nearest qualified technician.

**Tone Generators:** Four separate tones are available as an option via the ATC5488 tone generator board. This internally mounted PCB is easily fitted and plugs directly into a socket provided on the internal circuit board PCB6221 inside the TX6000. Please follow the instructions supplied with the tone generator. When any tone from the ATC5488 PCB is activated all inputs will automatically mute except for input one.

Tones available on the ATC5488 tone generator board are:

Evacuation Tone (to Australian Standard AS2220.1.2)  
Alert Tone (to Australian Standard AS2220.1.2)  
Bell Tone  
Pre Announce Chime

**Voice Operated Muting Modules:** Vox mute modules are easily fitted internally into the TX6000 and plug directly into a socket provided on the internal circuit board PCB6221.

The model numbers of the two different modules available are:

TX3010 Muting Module- Provides single muting from channel 1 only. When activated all other channels are muted.  
TX3014 Muting Module- Provides dual priority muting. Channel 1 mutes 2, 3, 4, 5, and 6. Channel 2 mutes 3, 4, 5, and 6.

## Fuse Sizes TX6000 Mixer

**Mains 240 VAC:** 0.5 Amperes Slow Blow

Looking for something worthy to connect to the inputs and outputs of your new TX6000 mixer? Well, please call your nearest Audio Telex Communications office for referral to your closest authorised Dealer or for more information on the full selection of our compatible sound system products.