

Operating Instructions



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TX8000
8 Channel Mixer





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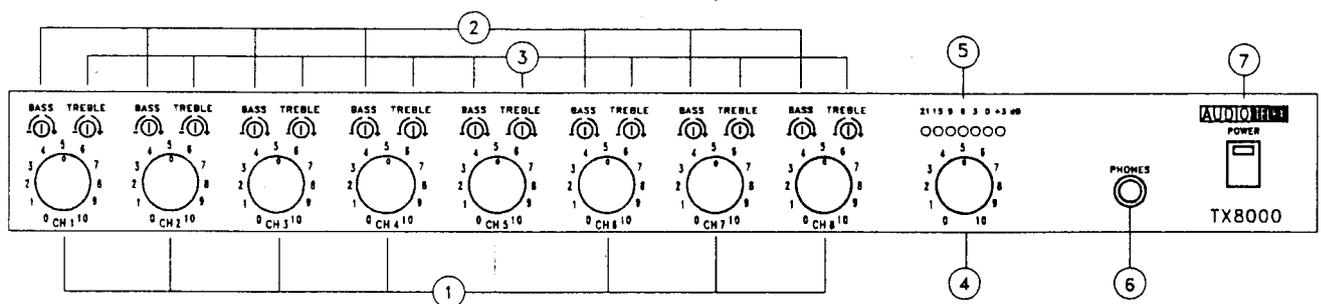
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TX8000 Mixer

Product Description

The TX8000 is a single rack height, 8 channel monaural mixer suitable for desk or 19" rack mounting. Inputs 1-6 are dual balanced microphone/auxiliary inputs while inputs 7-8 are balanced microphone inputs only. Each input channel has individual gain, trim, bass & treble controls. The TX8000 has a separate master output level control. The TX8000 will operate from 240 VAC 50Hz or 110 VAC 60 Hz or 24 VDC. Factory preset is 240 VAC.

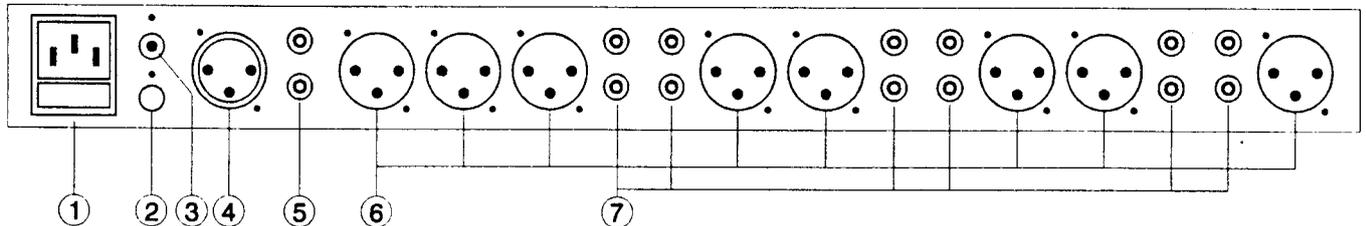
Front Panel Controls



- 1. Microphone/Auxiliary Gain :** The 8 input channels are labeled Ch1 .. Ch8 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 clockwise until the desired mix level for each channel is reached. Each of the inputs is also equipped with an input sensitivity control which is located on the input PCB of the TX8000. Please refer to the 'Other Internal Adjustments' section of this manual for full details of this feature.
- 2. Bass Tonal Control:** Each input channel has a recessed (screwdriver adjustable) bass tonal adjustment control labeled "Bass". Setting this control in the centre position will give a flat bass response. 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.
- 3. Treble Tonal Control:** Each input channel has a recessed (screwdriver adjustable) treble tonal adjustment control labeled "Treble". Setting this control in the centre position will give a flat treble response. Adjusting the treble control in a clockwise direction will provide up to 10 dB of treble boost @ 10K Hz. Adjusting the treble control in a counter-clockwise direction will provide up to 10 dB of treble cut @ 10K Hz.
- 4. Master Output Level:** The master output level control should be adjusted to set the overall mixer output level based on the individual input channel levels already set via the individual microphone/auxiliary gain controls. Start with the output controls set at approximately the Level 5 position and adjust clockwise for more output level or counter-clockwise for less output level.
- 5. VU Meter:** A 7 segment LED VU meter is provided for each output channel to give an indication of the signal level for each output channel from -21 to +3 dB. For normal operation the LED's should oscillate in and out of the red zone. If the LED's in the red zone are lit continually, then the output level controls (or the input gain controls) should be turned counter-clockwise to reduce the output level. Too much output level can cause signal distortion and a mismatch with the device that the mixer is driving.
- 6. Headphone Output Socket:** A 1/4" RTS 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:** The switch marked "Power" turns AC mains power 'On' and 'Off' to the TX8000. When the switch is in the "On" position, a red neon will glow in the body of the switch. If the TX8000 is connected to a 24 volt DC supply, this switch will not effect the operation of the TX8000 from the DC supply. If both AC and DC are connected, then the TX8000 will continue to operate normally when this switch is turned 'Off'. The DC supply needs to be disconnected from the rear panel to completely 'turn off' the TX8000.

Rear Panel



Features of the rear panel are as follows:

- 3 Pin IEC AC Mains Power Inlet:** The operating voltage is 240 VAC @ 50 Hz or 110 VAC @ 60 Hz. The AC power voltage level is **not** externally user adjustable but is factory pre-set. The inlet is equipped with an inbuilt AC fuse holder fitted with a 1 Amp fuse plus a spare. Power consumption is 5 VA. ⚠ **Please ensure that the mains power cord is disconnected before attempting to check or replace this fuse.**
- Access Port:** This port is to allow for external cable egress for accessories such as the ATC5488 tone generator.
- 24 Volt DC Power Supply Connection:** DC connection is via this 2.1mm socket with + (high) on the centre pin and - (low) on the outer pin. When DC is connected to these terminals the TX8000 will continue to operate regardless of the position of the AC power switch on the front panel. To turn off DC power to the TX8000, remove the connecting cables from these two posts. The maximum DC current drain is 350 mA
- Master Output Connection:** This is an active balanced XLR connection with a nominal level of 1.5 volts @ 600 ohms. The pin connections are; pin #1-earth; pin #2-active (high, +); pin #3-active (low, -).
- Dual RCA Sockets For Output To A Tape Recorder:** Nominal 700mV @ 10K ohms. The tape output is summed to mono and is connected before the master output level control so the tape output level is not affected by adjustments to the master output level control.
- Active Balanced, XLR Sockets For The Microphone Inputs:** With an input sensitivity of 0.6mV @ 200 ohms (see the 'Other Internal Adjustments' section on the last page of this manual for details about the trim level control available for each channel). Pin connections are: pin #1-earth; pin #2-active (high, +); pin #3-active (low, -). Phantom power of +18 volts is available on all microphone inputs. An internal on-off link will switch the phantom power 'on' or 'off'; the default setting is 'on'. See the 'Other Internal Adjustments' section of this manual for more details. Reading from left to right across the rear panel, the connection are for microphone inputs 8, 7, 6, 5, 4, 3, 2, & 1 respectively.
- Dual RCA Sockets For The Auxiliary Inputs:** Summed to a mono buss with an input sensitivity of 50mV-500mV @ 47K ohms for input channels 1-6 only (see the 'Other Internal Adjustments' section on the last page of this manual for details about the trim level control available for each channel). Reading from left to right across the rear panel, the connection are for auxiliary inputs 6, 5, 4, 3, 2, & 1 respectively.

More information over the page ➡

Optional Accessories



The installation of the following optional accessories involves access to the inside of the TX8000. 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 TX8000.

TX3010 Vox Muting (Precedence) Module: The TX3010 is a Vox operated muting module and when installed, input channel #1 will mute all other channels. Please refer to the comprehensive installation instructions packaged with the TX3010

TX3014 Vox Muting (Precedence) Module: The TX3014 is a dual priority, Vox operated muting module and when installed, input channel #1 will mute all other channels while input channel #2 will mute channels 3-8. Please refer to the comprehensive installation instructions packaged with the TX3014

ATC5488 4 Tone Generator Module: The ATC5488 provides bell, pre-announce, alert and evacuation tones. The alert and evacuate tones are to Australian Standard AS2220.1. Tone selection and activation cables may be routed via the access port in the rear panel of the TX8000. The ATC5488 is connected as per the comprehensive instructions supplied with the ATC5488.

Please contact your supplier for pricing and delivery information for all of the optional accessories described above.

Other Internal Adjustments



The following adjustments involve access to the inside of the TX8000. 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 TX8000.

Phantom Power Defeat: This 3 pin link is located on the output board directly behind the Mic #8 XLR socket on the rear panel. The default setting is with the link in the 'on' position, shorting the centre pin and the pin closest to the rear of the TX8000. To turn phantom power off, move the link to short the centre pin and the pin closest to the front of the TX8000.

Input Sensitivity Adjustment: These trim pots are located inside the TX8000 on the input circuit board at the rear of the mixer and are labeled R*1-R*8 to indicate channels 1-8 respectively. These pots should be adjusted to the desired trim level.

Looking for something worthy to connect to the inputs and outputs of your new TX8000? 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.