


Operating Instructions




TX8200

8 Channel Stereo Mixer



AUSTRALIAN MADE



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TX8200 Stereo Mixer

Product Description

The TX8200 is a single rack height, 8 channel stereo mixer suitable for desk or 19" rack mounting. The TX8200 has input for 5 low impedance, balanced microphones and 3 stereo auxiliary sources. Each input channel has individual bass, treble and pan controls. The TX8200 has separate left and right (stereo) output channels.

Front Panel Controls

Microphone Gain : The 5 microphone input channels are labelled Mic1 .. Mic 5 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 five microphone inputs is also equipped with an input sensitivity control which is located on the rear panel of the TX8200. Please refer to the Rear Panel section of this manual for full details of this feature.

Auxiliary Gain: The 3 auxiliary input channels are labelled Aux 1 .. Aux 3 and should be adjusted to provide the required mix level for each individual auxiliary channel. Start with the controls set to Level 0 and turn the controls clockwise until the desired mix level for each channel is reached. The sensitivity of auxiliary inputs #2 & # 3 are set at 250 mV. However, auxiliary input #1 has variable input sensitivity adjustment of 250 mV - 1 V and is factory pre set at 1 V (to allow for immediate connection to a high level source such as a CD player). Please refer to the Other Internal Adjustments section on the last page of this manual for full adjustment details.

Master Left & Right Output: The master left and right channel output controls should be adjusted to set the overall mix output for each output channel based on the individual input channel levels already set via the individual microphone gain and 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.

Bass Tonal Control: Each input channel has a recessed (screwdriver adjustable) bass tonal adjustment control labelled "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.

Treble Tonal Control: Each input channel has a recessed (screwdriver adjustable) treble tonal adjustment control labelled "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.

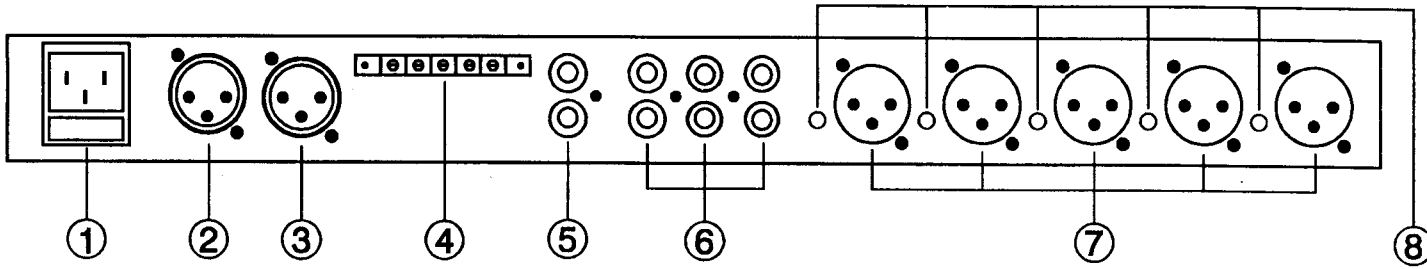
Pan Control: Each input channel has a recessed (screwdriver adjustable) pan control. The pan control determines what proportion of each input channel will be sent to either of the left or right output channels. Setting the pan control in the centre position will send equal signal levels to each output channel. Turning the pan control in a clockwise direction will send progressively more signal to the right output channel and less to the left output channel. Turning the pan control in a counter-clockwise direction will send progressively more signal to the left output channel and less to the right output channel.

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.

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 TX8200. Rocking the switch in to the "Up" position turns AC power on to the TX8200. When the switch is in the "On" position, a red neon will glow in the body of the switch.

Rear Panel



Features of the rear panel are as follows:

- 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 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.**
- 2 **Right Channel 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, -).
- 3 **Left Channel 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, -).
- 4 **5 Pin Barrier Strip** for external access to the accessory **ATC5488 4 Tone Generator** (if installed). The pin connections are unlabelled and at the discretion of the technician installing the ATC5488. These terminals may be used for other purposes required.
- 5 **Dual RCA Sockets For Output To A Stereo Tape Recorder.** Nominal 400mV @ 10K ohms. The top connector is the left channel output while the bottom connector is the right channel output. The tape outputs are connected before the master left & right output level controls so the tape output level is not affected by adjustments to the output level controls.
- 6 **Dual RCA Sockets For The 3 Stereo Auxiliary Inputs** with an input sensitivity of 250mV @ 47K ohms for auxiliary inputs #2 & #3 and 250 mV - 1V for auxiliary input #1. The top connectors are for the left channel auxiliary inputs while the bottom connectors are for the right channel auxiliary inputs. Reading from left to right across the rear panel, the connections are for auxiliary inputs 3, 2, & 1 respectively. See the Other Internal Adjustments section on the last page of the manual for details about the trim level control available to Auxiliary input #1.
- 7 **5, Active Balanced, XLR Sockets For The Microphone Inputs** with an input sensitivity of 0.6mV @ 200 ohms. Pin connections are: pin #1-earth; pin #2-active (high, +); pin #3-active (low, -). Phantom power of +15 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 connections are for microphone inputs 5, 4, 3, 2, & 1 respectively.
- 8 **5 Microphone Input Sensitivity Adjustment Potentiometers** (screwdriver adjustable). Turning the controls clockwise will increase the sensitivity of the input while turning the controls counter-clockwise will reduce the sensitivity of the inputs. These controls are very useful in setting up the performance range of the microphone inputs depending on the sensitivity of the microphones used and the varying microphone techniques of the user. For example, where a microphone is located further from a user the sensitivity may need to be increased. Where the user is close talking, the sensitivity may need to be decreased. The combination of input sensitivity controls and front panel channel gain controls allows the user to make very precise and tolerant level settings.

More information over the page please ➞

Optional Accessories

⚠ The installation of the following optional accessories involves access to the inside of the TX8200. 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 TX8200

TX3028 Vox Muting (Precedence) Module: The TX3028 is Vox operated and provides two levels of muting priority. Channel 1 is the master mute channel and will override channels 2 to 8. Channel 2 has secondary priority and will override channels 3 to 8. The TX3028 is connected internally as per the comprehensive instructions supplied with the TX3028. Please contact your supplier for pricing and delivery information.

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. The ATC5488 is wired to a 5 pin socket on the rear panel of the TX8200 to allow for contact closure activation of the various tones as required. The ATC5488 is connected internally as per the comprehensive instructions supplied with the ATC5488. Please contact your supplier for pricing and delivery information.

Other Internal Adjustments

⚠ The following adjustments involve access to the inside of the TX8200. Installation should only be attempted by a qualified technician. Always turn off the AC power and remove the AC power chord before attempting to access the inside of the TX8200

Phantom Power Defeat: This 3 pin link is located on the output board directly behind the Aux 1 input RCA socket pair 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 TX8200. To turn phantom power off, move the link to short the centre pin and the pin closest to the front of the TX8200.

Auxiliary Input #1 Sensitivity Adjustment: These trim pots (a stereo pair) are located inside the TX8200 on the output circuit board directly behind auxiliary #1's corresponding RCA input socket pair. Viewed from the front of the TX8200, the left channel control is on the left while the right channel control is on the right. It is recommended that auxiliary input #1 is used for connection to any high level input source but may be trimmed back as far as 250 mV if required.

Looking for something worthy to connect to the inputs and outputs of your new TX8200? 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.