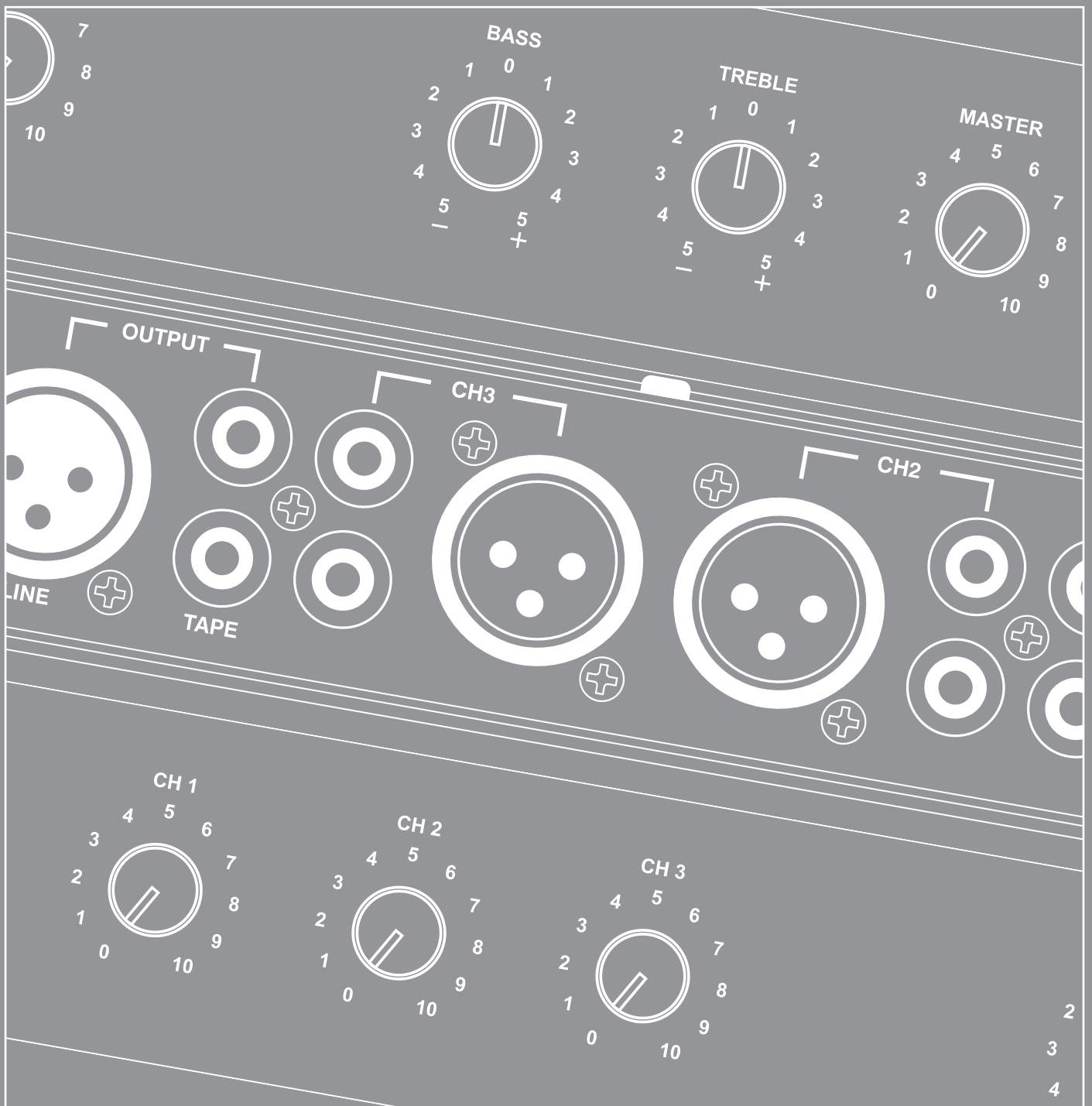


AMC MIX

INSTALLATION AND OPERATION MANUAL





IMPORTANT SAFETY INFORMATION



1. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
2. Read all documentation before operating your equipment. Retain all documentation for future reference.
3. Follow all instructions printed on unit chassis for proper operation.
4. Do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
5. Make sure power outlets conform to the power requirements listed on the back of the unit.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
8. Mains voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
9. Have gain controls on amplifiers turned down during power-up to prevent speaker damage if there are high signal levels at the inputs.
10. Power down & disconnect units from mains voltage before making connections.
11. Never hold a power switch in the "ON" position if it won't stay there itself!
12. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, weathersheet, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign matter.
14. Do not remove the cover. Removing the cover will expose you to potentially dangerous voltages. There are no user serviceable parts inside.
15. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
16. Do not connect the inputs / outputs of amplifiers or consoles to any other voltage source, such as a battery, mains source, or power supply, regardless of whether the amplifier or console is turned on or off.
17. Do not run the output of any amplifier channel back into another channel's input. Do not parallel- or series-connect an amplifier output with any other amplifier output. Australian Monitor Inc is not responsible for damage to loudspeakers for any reason.
18. Do not ground any red ("hot") terminal. Never connect a "hot" (red) output to ground or to another "hot" (red) output!
19. Non-use periods. The power cord of equipment should be unplugged from the outlet when left unused for a long period of time.
20. Service Information Equipment should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the equipment
 - C. The equipment has been exposed to rain
 - D. The equipment does not appear to operate normally, or exhibits a marked change in performance
 - E. The equipment has been dropped, or the enclosure damaged.

THIS SAFETY INFORMATION IS OF A GENERAL NATURE AND MAY BE SUPERSEDED BY INSTRUCTIONS CONTAINED WITHIN THIS MANUAL

INTRODUCTION AND CONTENTS





The Australian Monitor AMC-MIX mixer takes the affordability and ease of use of our AMC series amplifiers and integrates the front end into a low cost mixer for applications where reliability is everything, but the more elaborate features of larger mixers are not required.

The AMC-MIX is a 1 RU mixer with 3 universal mic/line inputs. Master volume & overall treble & bass controls are provided, along with Vox triggered muting (defeatable), giving channel 1 priority over inputs 2 & 3. There is also the facility to add a tone generator card.

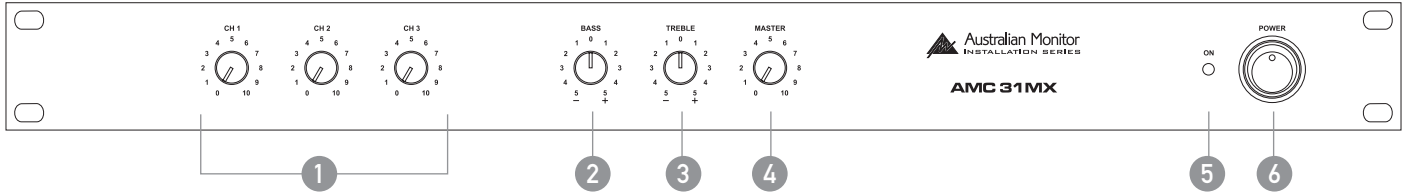
The Australian Monitor AMC-MIX gives the contractor a low cost alternative in applications that are price sensitive, but still require a high quality of sound reproduction & reliability.

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Rev A: 09/02/06

  <p>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</p>	 <p>This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p>
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK), NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONAL.</p>	 <p>This symbol is intended to alert the user to the presence of important operational and maintenance (servicing) instructions in the literature accompanying the appliance.</p>
<p>WARNING! TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.</p>	<p>Caution: To prevent electric shock do not use this (polarised) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure. To prevent electric shock, match wide blade of plug to wide slot, fully insert.</p>

FRONT PANEL



1 CH 1-3

These control the levels for each channel input.

2 BASS

There is 12dB of cut and boost at 100Hz.

3 TREBLE

There is 9dB of cut and boost at 10kHz.

4 MASTER

This controls the overall mixed output level.

5 ON

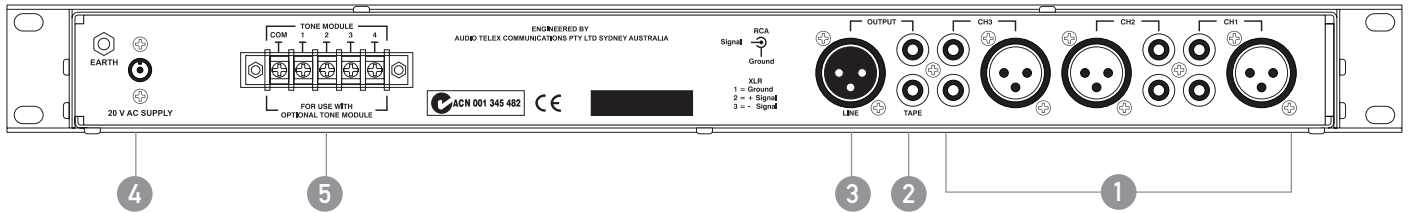
This LED indicates the unit is powered "on".

6 POWER

This switch switches power on or off from the mains.

The up position is on.

REAR PANEL



1 CH 1-3

Each channel input section has two inputs:

XLR input - This is a balanced microphone input. It has an input sensitivity of 1mV.

RCA input - This is an unbalanced line level input. It has an input sensitivity of 500mV. The two RCA sockets are summed to mono internally.


2 TAPE OUTPUT

The TAPE output is on unbalanced RCA connectors. The output level is 150mV into 10kohm at rated output. The output is dual mono.

The TAPE output is not affected by the MASTER volume control or the BASS and TREBLE controls. The TAPE output does not receive the tone signal if the optional tone generator module is installed.

3 LINE OUTPUT

The LINE output is on a balanced XLR connector. The output level is 1V into 1k at rated output.

 NOTE: When wiring the LINE output as unbalanced, Pin2 should be wired as hot and Pin1 should be wired as ground/shield. Do not wire Pin3.

4 AC POWER SOCKET

This is a 5.5mm x 2.1mm barrel socket. It accepts 20V AC power from the plug pack provided.

5 (OPTIONAL) TONE MODULE


These terminals are for use with an optional tone module (not supplied).

INSTALLATION

OUTPUT CONNECTIONS

LINE OUTPUT

The LINE output XLR can be used to connect up to 6 booster amplifiers. Balanced wiring (shielded pair cable) is recommended.

 NOTE: When wiring the LINE output as unbalanced, Pin2 should be wired as hot and Pin1 should be wired as ground/shield. Do not wire Pin3.

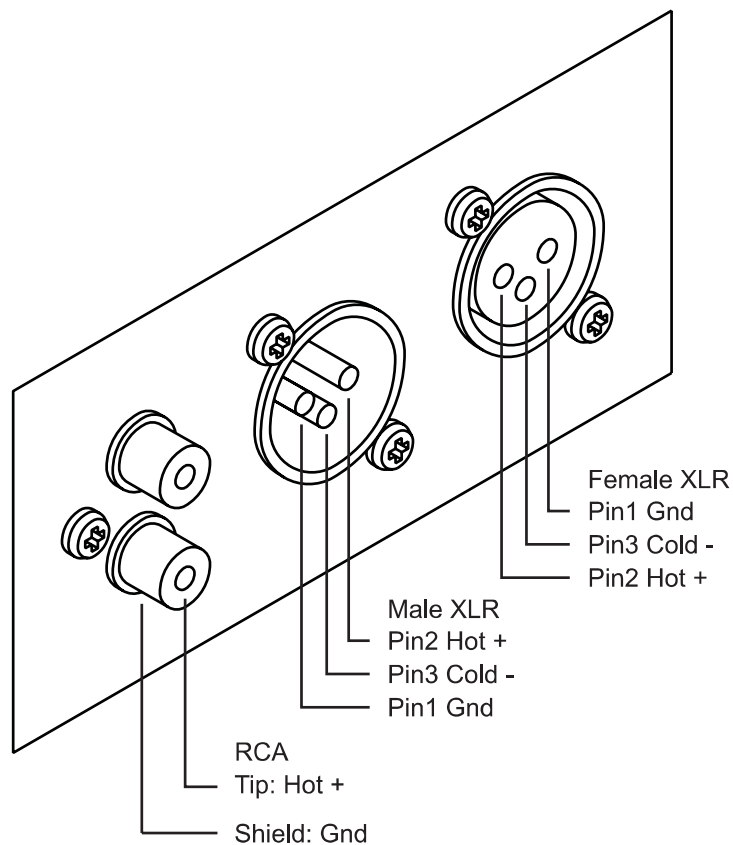
TAPE OUTPUT

The TAPE output wiring should be kept as short as possible. Typically less than 3m.

INPUT CONNECTIONS

For wiring balanced in, pin 2 is hot. Unbalanced wiring on the microphone inputs is not recommended. Balanced input wiring (shielded pair cable) is recommended.

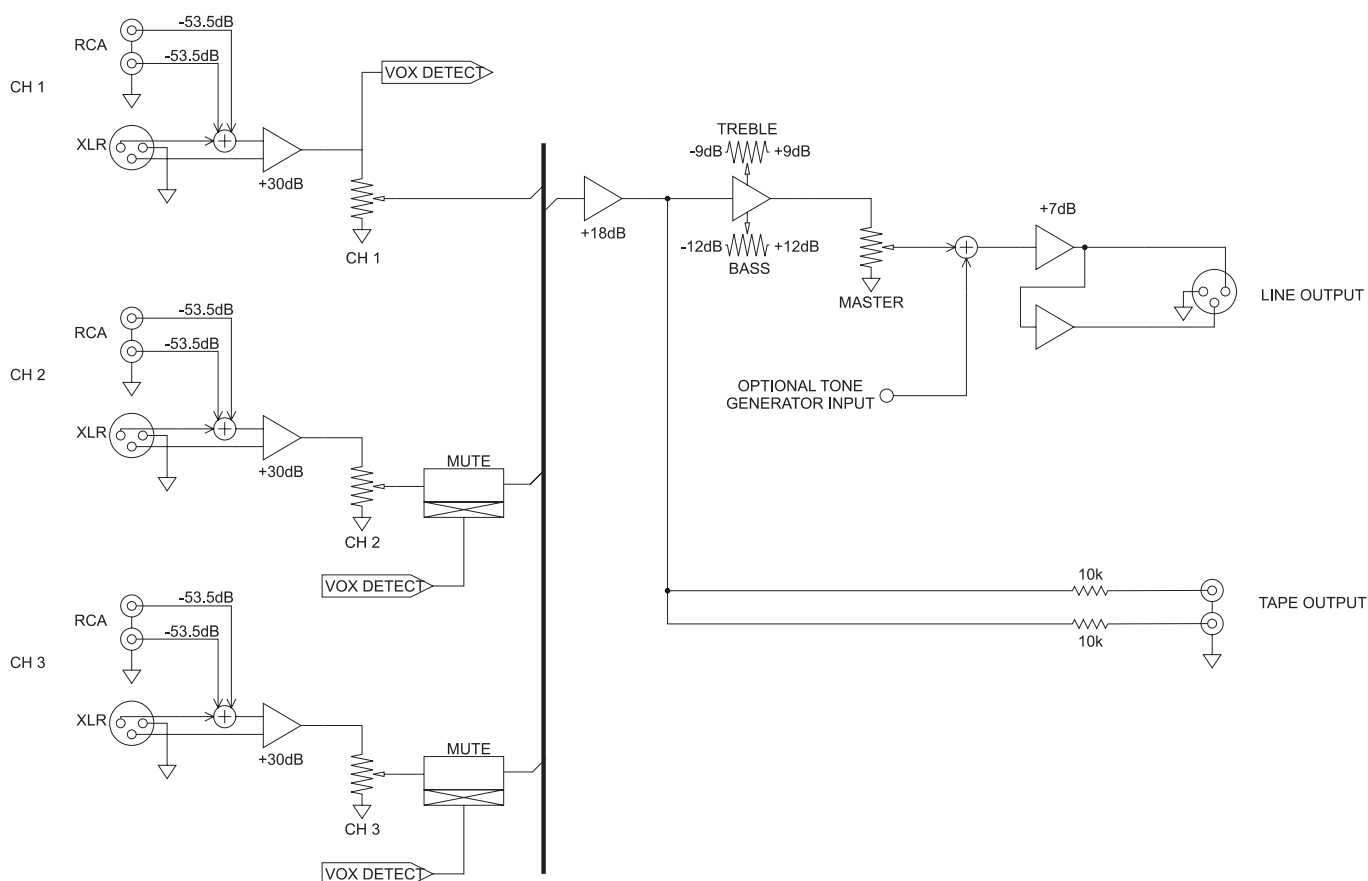
Unbalanced RCA wiring should be kept as short as possible. Typically less than 3m.



TROUBLESHOOTING & BLOCK DIAGRAM

TROUBLESHOOTING GUIDE

TROUBLE	LIKELY CAUSE	REMEDY
Power LED not on	Power not reaching mixer Check power switch is on	Check plug pack connection
Distorted sound	Input is overloaded Output is being over driven Bass control is turned up	Reduce input level at source Reduce volume levels on front panel Reduce Bass control level
No sound but mixer is on	Volume controls down Connected amplifier is switched off.	Check volume controls Check amplifiers and speakers
No sound from channels 2 & 3	Priority function is being used	Remove signal (disconnect input) from channel 1 OR Disable priority function (see Internal Adjustments)
Condenser microphone does not work	Mixer does not have phantom power	Purchase an external power supply OR Upgrade to the MX range of mixers
Tones do not sound when triggered	Tone generator module not installed.	Purchase optional Tone generator module



FUNCTIONAL NOTES & INTERNAL ADJUSTMENTS

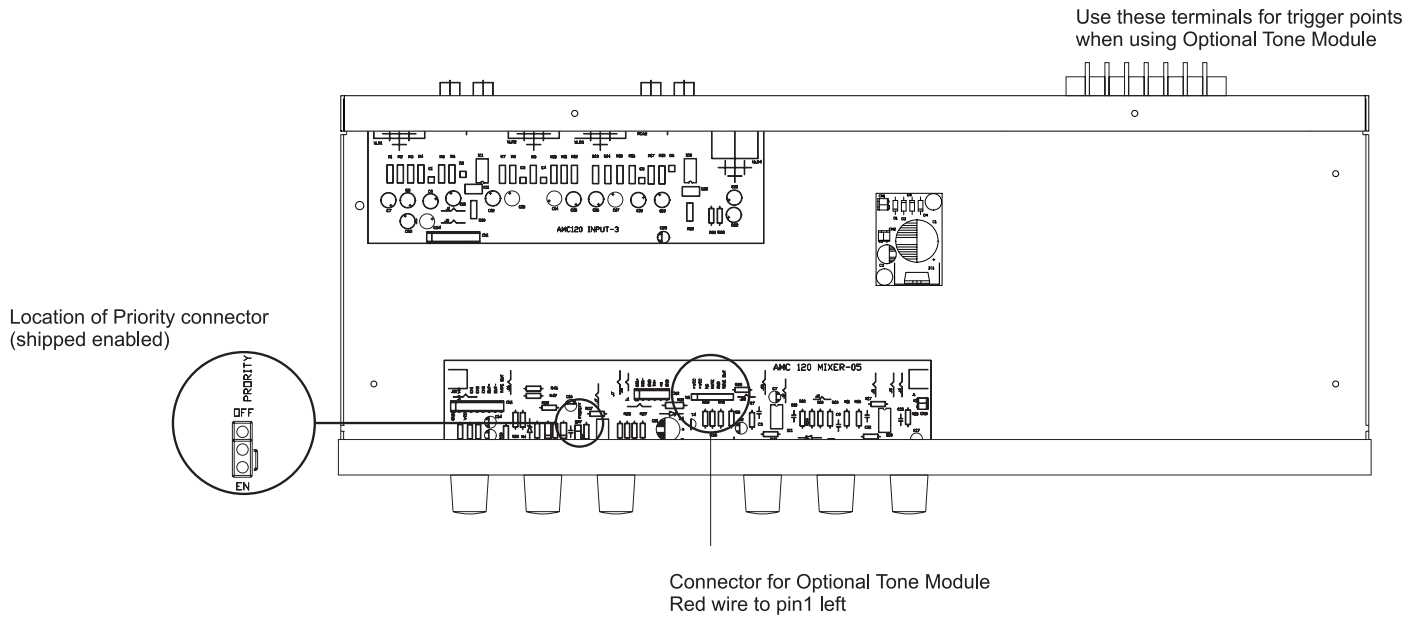
PRIORITY

Channel 1 will mute channels 2 and 3. This will only occur when signal appears on channel 1, irrespective of the channel volume control.

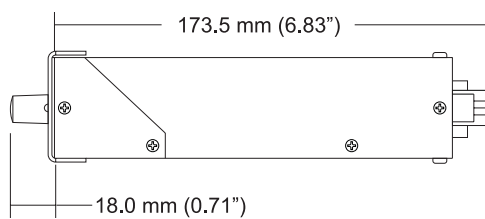
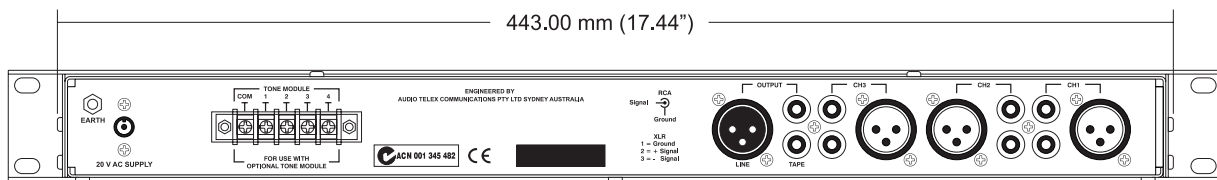
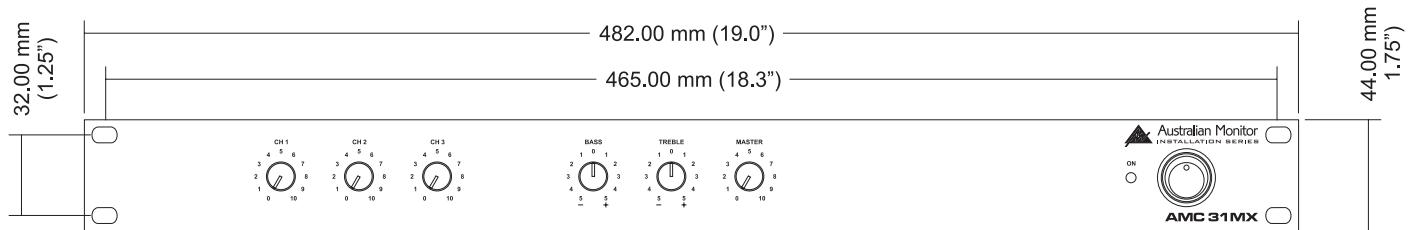
Priority can be disabled. (See below).

The release time is approx. 3 secs and is NOT adjustable.

The mute depth is approx. 40dB and is not adjustable.



DIMENSIONS



SPECIFICATIONS

FREQUENCY RESPONSE		20Hz - 20kHz (+0,-3dB)
TOTAL HARMONIC DISTORTION		< 0.5% @ 1kHz
SIGNAL TO NOISE RATIO		> 84dB (all pots at centre position)
CROSSTALK		> 60dB
TONE CONTROLS	BASS @ 100HZ	+/- 12dB
	TREBLE @ 10KHZ	+/- 9dB
SENSITIVITY		Mic Sens 0.7mV, -61dBu Imp 1k3ohm RCA 500mV, -4dBu Imp >100kohm
MAX LEVEL IN		XLR mic -20dBu RCA >30dBu
MAX LEVEL OUT		+14dBu
OUTPUTS	MASTER OUT	Nominal Level 0dBu into 1kohm Imp 100ohm
	MONO TAPE OUT	Nom -16dB into 10kohm Imp 10kohm
POWER INPUT		20V AC via 2.1mmx5.5mm barrel socket
POWER CONSUMPTION (MAX)		7 VA
DIMENSIONS HXWXD		44mm x 482mm x 191.5mm (1.75"x19"x7.54")
SHIPPING DIMENSIONS		90mm x 505mm x 270mm (3.5" x 19.9" x 10.6")
WEIGHT		Net 2.5kg (5.5lb) Shipping 3.5kg (7.7lb)

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