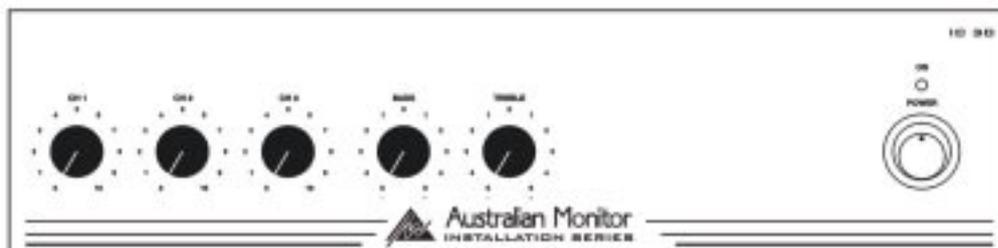




IC30
30w Mixer Amplifier

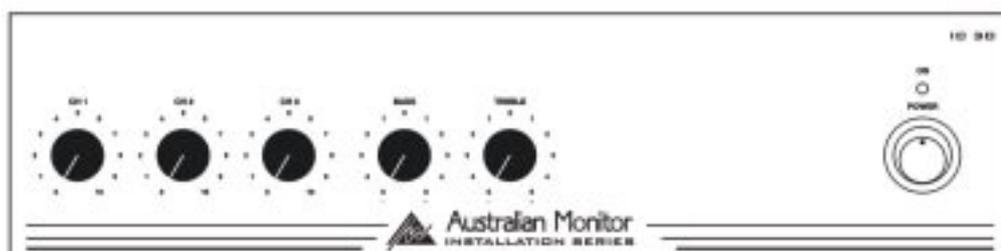


Operating Manual

IC30, 30 Watt Mixer Amplifier

Product Description

The IC30 is a 30 watt mixer amplifier which operates on 230/240 VAC (115 VAC with factory modification) or 12 VDC via an external DC power supply source. The amplifier is supplied free standing with rubber feet but can be rack mounted via an optional rack mount kit (IC30RMK). The IC30 will deliver 30 watts into a load of 4 ohms, 70 or 100 volt line. The IC30 may be stacked to a maximum of four units high. An IEC type mains cord and receptacle are provided, the receptacle also houses the mains fuse in a drawer which pulls open to expose the fuse. A single spare fuse is also located in this drawer.



Front Panel Features

Microphone/Line Level Controls

The dual mic/line level controls are labelled Ch 1 through to Ch 3 and should be adjusted to provide the required mix level for each individual channel. Start with the controls set to 0 and turn the controls clockwise until the desired mix level is achieved.

Bass Control

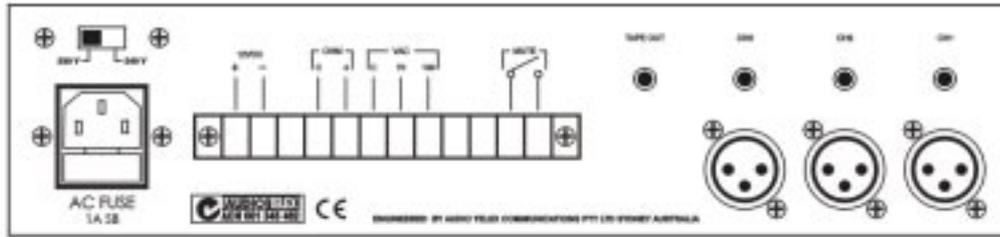
This control allows the user to increase or decrease the bass response of the system. Adjusting the bass control in a clockwise direction will provide up to 10dB of bass boost at 100Hz. Adjusting the bass control in a counter-clockwise direction will provide up to -10dB of bass cut at 100Hz. It is recommended to start with the bass control at the centre (0) position and adjust if necessary.

Treble Control

This control allows the user to increase or decrease the amount of treble in the system. Adjusting the treble control in a clockwise direction will provide up to 9dB of treble boost at 10kHz. Adjusting the treble control in a counter-clockwise direction will provide up to -9dB of treble cut at 10kHz. It is recommended to start with the treble control at the centre (0) position and adjust if necessary.

Power Switch

The power switch controls the switching of AC (mains) power to the amplifier. Rocking this switch upwards turns on the AC power to the amplifier while rocking the switch downwards turns power off to the amplifier. When in an upward position and when connected to AC power, the blue LED above the power switch will illuminate. When running from 12 VDC power, the LED will not illuminate.



Rear Panel Features

230V/240V Slide Switch

The operating voltage of the amplifier is user selectable between 230V and 240V via a slide switch located on the top left side of the rear panel. This switch should be set to match the AC voltage of your country.

AC Power Inlet

The 3 pin IEC power inlet is located on the bottom left of the rear panel and accepts a standard mains power lead fitted with an IEC connector. Before plugging in a power lead, please check the rear panel of the amplifier to ensure that the voltage switch is set correctly for your part of the world.

The inlet is equipped with an in-built AC fuse holder fitted with a 1Amp slow blow fuse plus a spare fuse.

---- Please ensure that the mains power cord is disconnected before attempting to check or replace this fuse----

Speaker Output Terminal Strip

Located in the middle of the rear panel is the speaker output terminal strip. Spare screw terminals are provided to allow for the connection of a tone module option. Reading from left to right, the connections are:

- + 12 Volts DC positive (+) power connection (for external power supply)
- 12 Volts DC negative (-) power connection (for external power supply)
- Spare** Not used
- COM** Common or “-” for low impedance speaker loads
- 4** The “+” for 4 ohm speaker loads (use with common)
- COM** Common or “-” for 70v or 100v speaker loads (maximum load of 330 ohms at 100v)
- 70** The “+” for 70v line speaker loads (use with common)
- 100** The “+” for 100v line speaker loads (use with common)
- Spare** Not used
- Spare** Not used
- Mute** Remote Muting On/Off Connection*
- Mute** Remote Muting On/Off Connection*

* Channels 2 and 3 are muted when the two mute contacts are shorted together. An optional VOX muting module (TX3010) is also available.

Please ensure that the correct “Common” is used. Low impedance and 70/100v loads can be used simultaneously but please pay careful attention to the overall speaker load. When used individually, the low impedance load should be 4 ohms or higher while the 100v line load should not fall below 330 ohms. When both outputs are used simultaneously, ensure that neither output is loaded to maximum.

Tape Output

A line level tape output is provided on the rear panel using an RCA connector. The tape output provides a maximum of 350mV into 10K ohms making it suitable for connection to most recording devices. Signal from all three input channels are fed to the tape output. Level adjustments made to the three input channels will affect the level going to the tape output.

Microphone/Line Inputs

Three universal microphone/line inputs are provided. Microphone inputs are via the 3 pin XLR connectors while line inputs are via the RCA style connectors (one of each is provided per channel). All three inputs can be used for microphone and auxiliary input sources. It is also possible to connect both a microphone and line/aux source to the one channel simultaneously however their relative levels to one another will be fixed, as there is only one gain control per channel.

The XLR connectors are wired: **Pin 1:** Earth. **Pin 2:** Active (high, +), **Pin 3:** Active (low, -). Microphone input sensitivity is 1.5mV at 200 ohms.

The RCA connectors have an input sensitivity of 80mV at 47K ohms.

Fuse Sizes

Mains 240 VAC, 1 Ampere Slow Blow

DC Fuse and Amplifier Protection Circuit

The DC fuse is located on the circuit board. This is a feature of the IC30 which is equipped with a current limiting circuit preventing excessive DC currents, thus eliminating the risk of blowing high tension fuses. In the unlikely event that the DC fuse actuates, the output IC's should be checked, as it is probable that the amplifier has been subjected to very extreme conditions.

Optional Accessories

The installation of some of the following accessories involves access to the inside of the amplifier. 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 amplifier. Please contact your nearest Australian Monitor Installation Series dealer for details of your nearest qualified technician.

Tone Generators

Four separate tones are available as an optional plug in card (ATC5488). The ATC5488 is a small circuit board which simply plugs into a socket inside the amplifier. Activation is via contact closures which may be wired to the rear panel of the IC30 or to external switches or a timer. Full installation instructions are provided with the tone generator.

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

VOX Muting Module

An optional VOX muting module (TX3010) is available. When installed inside the amplifier, signal on channel 1 of the amplifier will automatically mute channels 2 and 3. When there is no signal on channel 1, channels 2 and 3 will operate normally. Full installation instructions are provided with the TX3010.

Rack Mounting Kit

An optional rack mounting kit (IC30RMK) is available to mount the IC30 in a standard 19" equipment rack.

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.**
- Audio Telex Communications Pty Ltd 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.



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