

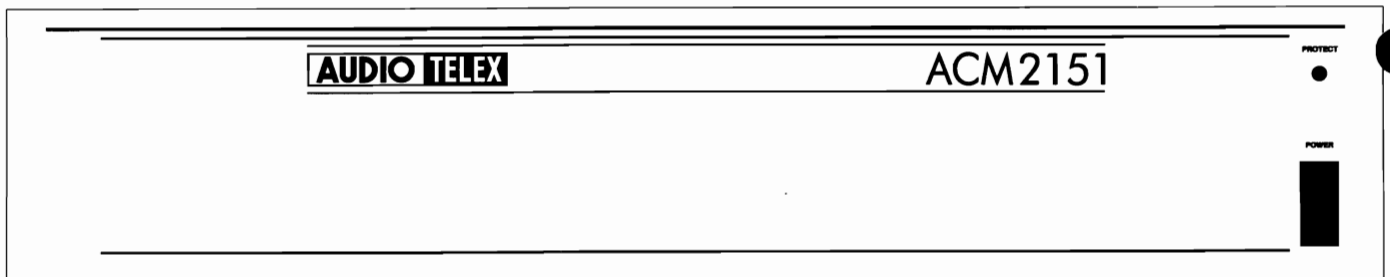
# ACM2151

## 150 + 150 Watt Power Amplifier

### Product Description

The ACM2151 is a dual channel 150 + 150 watt power amplifier in a two rack unit (2RU) chassis suitable for table or 19" rack mounting by means of an optional rack kit (ACMRMK). The ACM2151 has outputs for 100 volt line only and has an active balanced input of 10K ohms. The ACM2151 will operate from 240 VAC @ 50 Hz or 110 VAC @ 60 Hz (not user selectable, internal factory adjustment only, specify at the time of ordering). The ACM2151 also features auto-sensing fan cooling and over temperature protection. The maximum recommended load for the ACM2151 is 65 ohms per channel for 100 volt line operation. It cannot be used with low impedance speaker loads

### Front Panel Controls

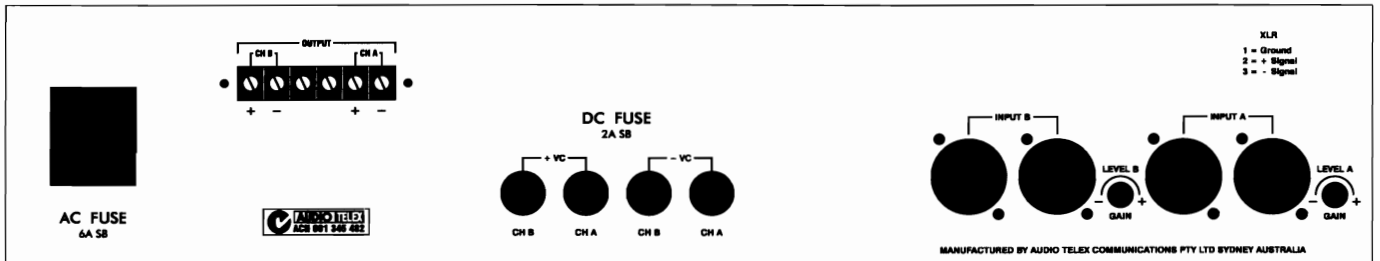


**Power Switch:** The rocker switch located on the front panel turns AC power on to the ACM2151. When the AC power is 'on', the neon in the power switch will illuminate.

**Protect LED:** The Protect LED is a general fault indication. It will indicate if DC is present on the outputs (which would normally indicate blown output devices) or if the amplifier temperature has reached a critical level (due to a fan failure or long periods of driving an abnormal load). Should DC appear on the output, the Protect LED will illuminate and the mains transformer will be switched off. Additionally, the speaker load will be disconnected to prevent speaker damage. If the Protect LED has illuminated because of a hi-temperature problem, check the airflow of the fans and check the speaker load. When corrected, the amplifier will restart.

**Slow Start:** The ACM2151 features a slow start circuit. After switch on, the amp will take about 3 seconds before it can be used. Once the amp is stable, the speaker load will become active.

## Rear Panel Connections



**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 selectable but is factory pre-set (via transformer selection). The inlet is equipped with an inbuilt AC fuse holder fitted with a 6 Amp slow blow fuse plus one spare fuse. Power consumption is 400 VA. **Please ensure that the mains power cord is disconnected before attempting to check or replace this fuse.**

**Output Terminal Strip:** The ACM2151 is designed to work only with 100 volt line speaker loads. The maximum load should not exceed 65 ohms per channel. In other words, loads less than 65 ohms are not suitable. Reading from left to right the connections are as follows:

From left to right, the terminal connections are

- Positive connection for channel B output
- Negative connection for channel B output
- Spare
- Spare
- Positive connection for channel A output
- Negative connection for channel A output

**Note:** These outputs (channels A & B) cannot be selected or wired for bridged mode mono operation.

**DC Low Voltage Fuse Receptacles:** Access the DC fuses by turning the caps half a turn counter-clockwise. The value of the fuses is 2 Amps slow blow. **Please ensure that the AC power switch is in the 'off' position and that the mains power cord is disconnected before attempting to check or replace any of these fuses.**

**Input (& Parallel Output) XLR Signal Connections:** The inputs (A & B) to the ACM2151 are active balanced @ 10K ohms. The pin configuration of all sockets is as follows: pin #1-earth; pin #2-active (high, +); pin #3-active (low, -). The output socket is to allow the original input signal to be fed on to another amplifier. As these two sockets are wired in passive parallel for each channel, the failure of any one amplifier will not affect the signal flowing through that amplifier to another amplifier.

**Channel Level Controls:** Level Controls for both A and B channels are located between the channel A and channel B input sockets. Both level pots would normally be set to maximum with the volume controlled by a mixer or pre-amp connected to the ACM2151.

## Information on Cooling Fan

**Cooling Fans:** The cooling fan is temperature sensitive and will only switch on when the temperature of the ACM2151 had reached a pre-determined range. The fan will stay on and only switch off again once the temperature of the amplifier has fallen below a pre-determined level. So, the fact that the fan is not operating at any time (and most noticeably to the operator at turn-on) does not mean that the amplifier is faulty in any way, just that it is operating within a temperature range that does not need fan cooling for adequate heat dissipation. If the ACM2151 is operating continually at conservative levels and proper load conditions, it is possible that the cooling fan will not switch on at any time during normal operation. When operating, the fans cause air flow from the right to the left of the amplifier.

## Fuse Sizes: ACM2151 Amplifier

**Mains 240 VAC:** 6 Amperes Slow Blow

**DC:** 2 Amperes Slow Blow

**Looking for something worthy to connect to the inputs and outputs of your new ACM2151? 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.**