



A 4375 125 Watt
A 4385 250 Watt
Public Address Amplifier



OPERATING
INSTRUCTIONS

Proudly Assembled in Australia

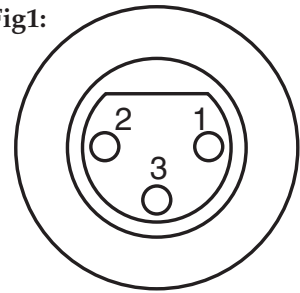
REDBACK Public Address Amplifiers

Congratulations on purchasing a REDBACK PA Amplifier. This Public Address Amplifier has been engineered and manufactured to a very high standard in Australia.

Features:

- 3 balanced microphone inputs / 4 aux inputs
- Phantom powering on mic inputs 1-3
- Wide frequency response 50Hz-15kHz, $\pm 3\text{dB}$
- Very low noise and distortion
- Tape out
- 100V, 70V and 4-16 Ohm outputs.
- 240V AC or 24V DC operation
- Bass and treble controls
- Evacuation tones via optional A 2073 evac module.
- Remote volume via optional 1K potentiometer.
- Desk or rack mountable
- Thermal overload protection

Fig1:



Pinouts of XLR Socket
(Looking at mic inputs rear of unit)

1. Earth/Shield
2. Signal Hot
3. Signal Cold

OPERATION

Microphones must be connected to the appropriate XLR input. Other "line level" music sources e.g. CD players, MP3 players, etc should be connected to the RCA auxiliary inputs on the rear or via the 3.5mm front panel socket. Each auxiliary input has stereo connections, which are converted to mono internally. Note: Input 1 sensitivity is 300mV, suitable for telephone paging. Inputs 2-3 are 500mV. Input 4 is suitable for iPod's & other MP3 players.

Microphone Phantom Power Option

This facility is available on all microphones. Phantom powering can be turned on or off via internal PCB mounted jumpers. To change the jumper settings, the lid of the amplifier must be removed. (Ensure power is dis-connected before removing the lid). Locate the jumpers (on the circuit board, see fig 2) and select the option as indicated on the circuit board. This option is set off at the factory.

Tape out: This is a line level output. Its output is affected by adjusting the volume on any input.

Vox muting: Available on inputs 1 and 2. Once activated (see fig 2) input 1 will override all other inputs including the alert/evac input. Input 2 will override inputs 3 & 4. Both mic and aux inputs will activate the vox muting. These are factory set in the ON position. When fitted the A 2073 evac module mutes inputs 2-4.

When installing the amplifier attention must be given to the following points.

- Make sure that the total speaker load on the amplifier does not exceed its rating (125W A 4375, 250W A 4385). Don't connect 8 ohm speakers to the 100V line output, this will severely overload the amplifier.
- Allow ventilation so that the amplifier can "breathe" i.e. don't enclose in a sealed cupboard. Allow air to circulate through the amplifier.
- Do not connect a combination of 8 Ω and 100V line speakers. This will overload the amplifier.

OPTIONAL EXTRAS

Alert/Evac option: Generates chime, alert and evacuation tones. Simply connect the alert/evac module (Altronics P/N: A 2073) to the amplifier internally via IDC cable provided. Refer to fig 2 for connection location. Once activated the A 2073 will mute inputs 2, 3 and 4.

Remote volume option: Master volume can be adjusted by a remotely located volume control (Maximum distance 100m). This requires a two wire figure 8 cable and a 1K potentiometer (Altronics P/N: R 2202). This is connected to the two way connector on the rear of the amplifier (fig 2).

Rack mount ears: For mounting into a 19" rack frame, A 4376 rack ears may be purchased separately.



A 4375 / 85 Rear Panel

TROUBLE SHOOTING

If the REDBACK amplifier fails to deliver the rated performance, check the following:

NO POWER, NO LIGHTS

Check the mains fuse, and the external DC fuse. Replace with only the correct type and rating. Make sure the amplifier power switch is on. Make sure mains power switch is on at the wall.

DISTORTED OUTPUT

Check that the speaker type is correct for the output that you are using, ie 8Ω or 100V. Check for any short circuits on the speaker line.

VERY LOW OUTPUT

Make sure that the input is the correct level (check for shorted connectors). Check for any short circuits on the speaker line.

CONTINUALLY BLOWS FUSES

Make sure that the speaker line is not shorted. Check also speaker types, ratings and output.

AMPLIFIER KEEPS ON CUTTING IN & OUT

Make sure that there is adequate ventilation around the amplifier. Check the vent slots on the case are not covered or blocked. Check the speaker types, ratings and for any short circuits on the speaker line.

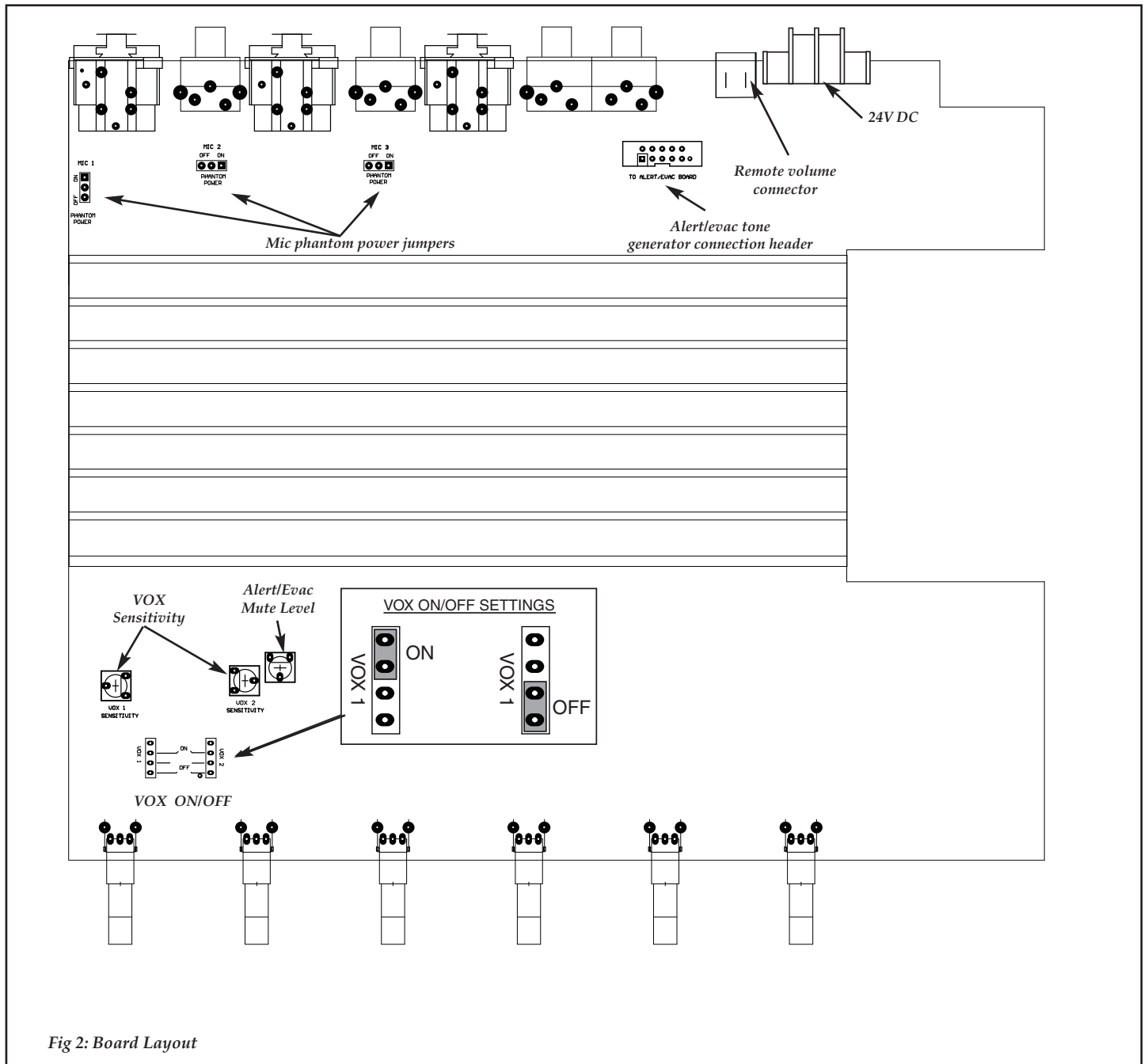


Fig 2: Board Layout

SPECIFICATIONS

POWER OUTPUT

A 4375:125 watts RMS
A 4385:250 watts RMS
Distortion:< 0.5% @ 1kHz

SIGNAL TO NOISE RATIO

Typically 75dB below rated output. All inputs.

FREQUENCY RESPONSE

Mic inputs:50Hz - 10kHz, -3dB
Aux inputs:60Hz - 15kHz, -3dB
Output line:100V, 70V or 4 - 16Ω

INPUT SENSITIVITY

Mic inputs:1.5mV balanced
Aux input 1:300mV
Aux input 2-3:500mV
Aux input 4:500mV

OUTPUT CONNECTORS

Speakers:Screw terminals

INPUT CONNECTORS

Mic Inputs:3 pin XLR balanced
Aux inputs 1-3:RCA stereo socket
Aux input 4:3.5mm stereo socket
Tape Out:RCA stereo socket
24V DC power:Screw terminals
240V AC power:IEC power connector
Remote volume:Screw terminals

CONTROLS

Mic inputs:Volume
Aux inputs:Volume
Bass:±10dB @ 100Hz
Treble:±13dB @ 10kHz
Power:On/off switch
Indicators:Power
Overload

Power supply:240V AC or 24V DC

PROTECTION

A 4375:5A AC fuse and 10A DC fuse
A 4385:7.5A AC fuse and 20A DC fuse

WEIGHT/ DIMENSIONS

A 4375:≈9.5kg
A 4385:≈15kg
Dimensions:≈423W x 285D x 88H mm
Colour:Black

*Specifications subject to change without notice

For repair or service please contact your place of purchase. Note: Under no circumstances should you attempt to repair the unit yourself as this will invalidate the warranty! This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure they do not play with the appliance.

NOT FIELD SERVICEABLE.

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