

A 4036 40 Watt A 4041 60 Watt A 4046 100 Watt

Public Address Amplifier



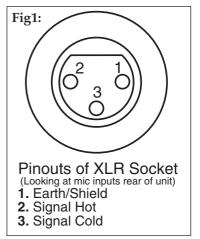
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Phone: 1300 780 999 Fax: 1300 790 999
Internet: www.altronics.com.au

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:

- 4 balanced microphone inputs / 4 aux inputs
- Phantom powering on mic inputs 1-4
- Wide frequency response 50Hz-15kHz, ±3dB
- Very low noise and distortion
- Tape out
- 100V, 70V and 4-16 Ohm outputs. (Note: 70V output not available on A 4036)
- 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



OPERATION

Microphones must be connected to the appropriate XLR input. Other "line level" music sources should be connected to the RCA auxiliary inputs, e.g. tape players, CD players, etc. Each auxiliary input has stereo connections, which are converted to mono internally.

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 OFF position.

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 (40W A 4036, 60W A 4041, 100W A 4046). 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.

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 4).



A 4036 / 41 / 46 Rear Panel

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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

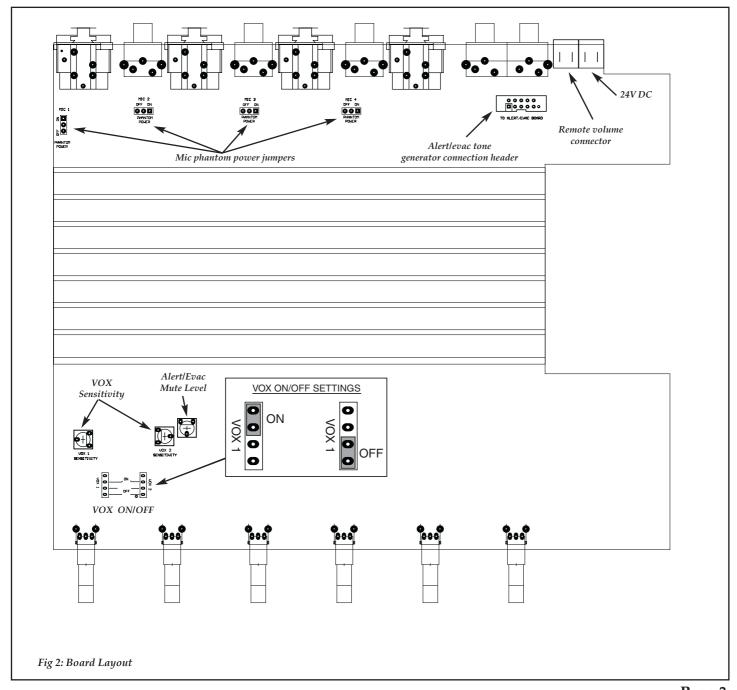
Make sure that the input is the correct level (check for shorted connectors). Check for any short circuits on the speaker line.

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.



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SPECIFICATIONS

POWER OUTPUT A 4036: A 4041: A 4046: Distortion: SIGNAL TO NOISE RATIO Typically 75dB below rated output. All inputs.	60 watts RMS
FREQUENCY RESPONSE Mic inputs: Aux inputs: Output line:100V, 70V or 4 - 16Ω (note: 70V	60Hz - 15kHz, -3dB
INPUT SENSITIVITY Mic inputs: Aux inputs:	
OUTPUT CONNECTORS Speakers:	Screw terminals
INPUT CONNECTORS Mic Inputs: Aux inputs: Tape Out: 24V DC power: 240V AC power: Remote volume: CONTROLS Mic inputs: Aux inputs: Bass: Treble: Power: Indicators:	RCA stereo socket RCA stereo socket RCA stereo socket Screw terminals IEC power connector Screw terminals Volume Volume ±10dB @ 100Hz ±13dB @ 10kHz On/off switch Power Overload
Power supply:	
PROTECTION A 4036: A 4041: A 4046:	2A AC fuse and 5A DC fuse
WEIGHT/ DIMENSIONS A 4036: A 4041: A 4046: Dimensions: Colour: *Specifications subject to change without notice	≈7.4kg ≈9kg ≈423W x 225D x 88H mm