





A4024A



A 4026A





Operating Manual

A4024A 30W Desk Mount Amplifier **A 4026A** 30W Rack Mount Amplifier

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Distributed by Altronic Distributors Pty. Ltd. Phone: 1300 780 999 Fax: 1300 790 999 Internet: www.altronics.com.au

IMPORTANT NOTE:

Please read these instructions carefully from front to back prior to installation.

They include important setup instructions.

Failure to follow these instructions may prevent the amplifier from working as designed.

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1.0 FEATURES

- 3 Inputs suitable for either microphone or line level, or for use as microphone and line level coupled together.
- Bass and treble controls (on both microphone and auxiliary inputs).
- Full 30W RMS output (100V and 4 -16 Ω outputs).
- VOX muting.
- Internationally accepted IEC mains socket (240V AC operation only).
- Stereo RCA sockets for all auxiliary inputs (configured to mono internally allowing standard stereo equipment to be directly connected).
- Mute trigger
- Fully balanced microphone inputs.
- Tape output, suitable for recording, or for connection to a second amplifier.
- Ten year warranty.

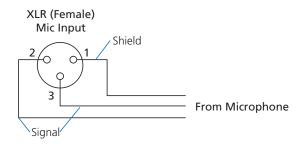
2.0 CONNECTING UP THE UNIT

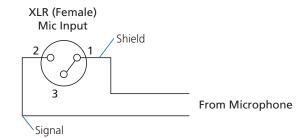
Microphone Inputs

There are three mic inputs on the rear of the amplifier. These are 3 pin XLR female connectors which are wired to a microphone as shown in figure 1.

INPUT BALANCED

INPUT UNBALANCED





Pin 1: Earth, Pin 2: Signal In Phase (hot), Pin 3: Signal Out of Phase (cold)

Fig 1. XLR Microphone Connections.

Microphone Connections

Connector Typ	e:XLR 3Pin Female
Pin 1:	Earth
Pin 2:	Signal Inphase (hot)
Pin 3:	Signal Out of Phase (cold)

Phantom power

Phantom power (15V DC) is provided on the microphone input XLR connectors. This is always present.

Speaker Outputs

Screw terminals are provided for both VC (voice coil) and 100V outputs. Minimum impedance when only VC output is used is $8-16\Omega$ @ 30W total load.

A combination of 100V and VC is possible however we do not recommend this. If more than 30W is used then the unit may shut down due to overloading.

Speakers fitted with 100V line transformers may be connected to the 100V output terminals on the rear of the amplifier. Always ensure the total load of the fitted speakers does not exceed the rated output of the amplifier (ie 30 watts for the A4024A/26A amplifier) otherwise damage may result. When fitting speakers with line transformers the impedance of the load cannot be measured using a standard multimeter. An impedance meter such as Altronics Q 2007 is required. Fig 2 lists the impedance at certain loads of speakers fitted with 70V and 100V line transformers. So for a total load of 30 watts using 100V line transformer fitted speakers, the impedance of the speaker load should be 333Ω .

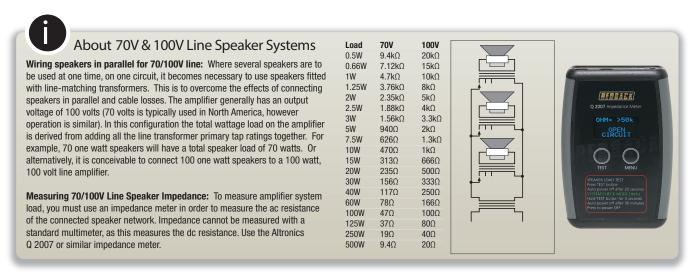


Fig 2. Speaker Load Impedance Values

Tape Out

This is a mono output configured for a stereo lead for direct connection to a stereo source. This is suitable for connection to an auxiliary input on external equipment. This is also suitable for driving 600Ω loads.

VOX Muting

VOX muting is provided on input one, which, when activated, automatically mutes inputs 2 and 3. VOX can be selected ON or OFF via DIP switch 1 (located on the rear of the amplifier). This is factory set in the OFF position. VOX sensitivity is adjusted via the trimpot on the front of the unit.

Output Muting

An output mute is provided which will mute the output of the amplifier when the Mute Trigger terminals are closed. The output will remain muted while the contacts are closed. This is ideal for emergency override situations.

5.0 OPERATION

Once all inputs and outputs are connected:

- 1 Turn bass and treble to midway point.
- 2 Turn all volume controls to zero.
- 3 Turn power switch on. Power indicator should illuminate.
- 4 Turn on microphone or auxiliary input source and adjust appropriate volume control to desired level.

The microphone and auxiliary for each input are mixed together, e.g. mic 1 and aux 1 are mixed. Both the mic and auxiliary inputs can be run together but note there is only the one volume control for both of these.

6.0 TROUBLE SHOOTING

NO POWER

(Power LED light does not illuminate)

Check mains fuse. Only replace with M205, 240V AC 0.5A rated fuse.

DISTORTED OUTPUT

Check that the speaker type is correct for the output that you are using. 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 if on correct 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 also speaker types, ratings and for any short circuits on the speaker line.

7.0 SPECIFICATIONS (* Specifications Subject to Change Without Notice)

POWER OUTPUT:	30 Watts RMS	CONTROLS:	
T.H.D.:		Input 1 (Mic 1 / Aux 1):	Volume
FREQUENCY RESPONSE:	31 3		Volume
Microphone:	52Hz - 10kHz, ±3dB	•	Volume
Auxiliary:			±10dB @ 100Hz
SPEAKER OUTPUTS:			±13dB @ 10kHz
or 8 - 16Ω (0V referenced)	, , , , , , ,	Power:	On/Off Switch
NOISE LEVEL:			240V AC
All volume controls min:typica	ally 76dB below rated output		Power on LED
(All inputs display same signal to			
OUTPUT CONNECTORS:	,	PROTECTION:	AC Fuse 0.5A
Speakers:	Screw Terminals		DC Fuse 2 x 3A (internal)
Tape Output:		DIMENSIONS:	
INPUT SENSITIVITY:		A4024A:	≈ 300W x 220D x 80H mm
Mic 1:2.6mV Bala	anced or 3.2mV Unbalanced	A 4026:	≈ 483W x 220D x 88H mm
Mic 2:	2.6mV Balanced	WEIGHT:	A4024A: ≈ 4.1kg
Mic 3:	2.6mV Balanced		A 4026:≈ 5.1kg
Aux 1:	150mV	COLOUR:	Black
Aux 2:	150mV	ACCESSORIES:	IEC Mains Lead
Aux 3:	150mV		
INPUT CONNECTORS:			
Mics 1-3:	3 pin XLR balanced		
Aux 1-3:	RCA Stereo Socket		
Mute Trigger:	Euro Connector		
240V AC Power:	JEC Type Chassis Socket		