

Altronic Distributors warrants this product for one year from date of purchase from Altronics or its resellers to the consumer. If this item is part of an installation or another product, please contact the installer or supplier for your warranty.

During the warranty period, we undertake to repair or replace your product at no charge, if found to be defective due to a manufacturing fault. The warranty excludes damage by misuse or incorrect installation (i.e. failure to install and operate device according to specifications in the supplied instruction manual), neglect, shipping accident, or no fault found, nor by use in a way or manner not intended by the supplier.

For repair or service please contact your **PLACE OF PURCHASE**.

If this item was **purchased directly from Altronics** please make a warranty claim by:

1. **FOR MAIL ORDER CUSTOMERS** (includes school and trade orders),
 - a) Ringing us on 1300 797 007 and quoting your tax invoice number.
 - b) Upon contacting Altronics, we will issue an R.A. (Return Authorisation).
As Altronics have a number of service agents throughout Australia, a copy of the R.A. will be emailed, faxed or mailed to you with full instructions of how and where to send the goods. The freight for shipping goods back to Altronics for all repairs is at the customers expense.
 - c) A copy of the R.A. form, (or at the very minimum, the R.A. number) must accompany the goods to effect the repair.
 - d) Altronics will pay the return freight to the customer where the warranty claim has been accepted.
 - e) Please quote the R.A. number in any correspondence to us.
2. **FOR OVER THE COUNTER PURCHASES** to make a warranty claim, please return the goods to us in any of our stores, with a copy of your proof of purchase (tax invoice),
 - a) Upon leaving the goods at one of our stores, an R.A. number will be issued to you.
 - b) Once repaired, you will be contacted, advising that the goods are ready to be collected from the store.

It is at Altronics discretion as to whether the goods will be repaired or replaced (whilst under warranty); and as to whether identical goods will be used to replace the item due to changes of models / products.

Note: Under no circumstances should you attempt to repair the device yourself or via a non-authorised Altronics service centre, as this will invalidate the warranty!

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.



4 Zone Speaker Distributor



Operating Instructions

Distributed by

Altronic Distributors Pty. Ltd. Perth. Western Australia.

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Overview

The A 2370 allows you to connect and play between 1 and 4 pairs of speakers to one 8Ω stereo amplifier. It's impedance correction circuitry protects your amplifier from low impedance loads. The circuitry ensures that your amplifier will see a safe operating load, even when all 4 pairs are playing at the same time.

Features:

- Connects up to four pairs of speakers
- Impedance protection safeguards your amplifier from damage
- Removable connection terminals handle up to 14 gauge speaker wire
- Power handling capability of 50 watts per channel
- May be used with 4Ω or 8Ω speaker systems
- Ideal for both home and commercial speaker installs

Calculating Amplifier Impedance Load

As most pairs of speakers are connected in parallel to a receiver or amplifier the overall system impedance becomes lower. For example, if two pairs of 8Ω speakers are connected in parallel, the impedance will be 4Ω. Two pairs of 4Ω speakers in parallel become 2Ω, and so on.

Since most receivers or amplifiers are not rated for use below a 4Ω load, you cannot connect more than two pairs of speakers without impedance correction.

The A 2370 includes impedance correction circuitry allowing you to connect up to 4 pairs of speakers to an amplifier or receiver. The circuitry ensures that your amplifier will see a safe operating load, even when all 4 pairs are playing at the same time.

See the chart below for specific impedance loads that will be presented to your amplifier.

| 4Ω Speakers | | | | |
|----------------------------|----|----------------------|----|-------|
| Number of Speakers Playing | | Impedance Correction | | |
| 1 | 2 | 3 | 4 | |
| 4Ω | - | - | - | 16.7Ω |
| 4Ω | 4Ω | - | - | 10.1Ω |
| 4Ω | 4Ω | 4Ω | - | 7.9Ω |
| 4Ω | 4Ω | 4Ω | 4Ω | 6.8Ω |

| 8Ω Speakers | | | | |
|----------------------------|----|----------------------|----|-------|
| Number of Speakers Playing | | Impedance Correction | | |
| 1 | 2 | 3 | 4 | |
| 8Ω | - | - | - | 29.2Ω |
| 8Ω | 8Ω | - | - | 16.5Ω |
| 8Ω | 8Ω | 8Ω | - | 12.2Ω |
| 8Ω | 8Ω | 8Ω | 8Ω | 10.2Ω |

Installation

1. Select a convenient location for mounting the A 2370
2. Run all necessary wiring to the A 2370. Label wires for future reference
3. Strip and twist speaker wire ends
4. Insert each wire into the appropriate connection on the terminal block
5. Make sure all connections between your amplifier and the A 2370 are phase correct eg: positive to positive, negative to negative.
6. Make sure all connections between your speakers and the A 2370 are phase correct eg: positive to positive, negative to negative.

A 2370 Connection Diagram

