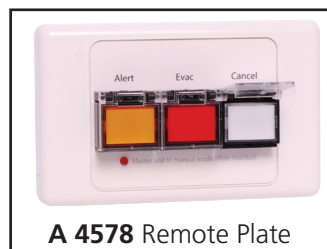
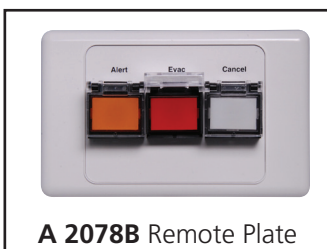


Operating Manual

A 4575B Alert/Evacuation Controller

Optional Wall Plates



Redback® Proudly Made In Australia

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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 OVERVIEW

1.1 INTRODUCTION

This easy to operate controller is designed around industry standard building emergency alert/evacuate requirements. When connected to a paging system amplifier, building occupants can be alerted and/or evacuated in the event of an emergency e.g.: fire, gas leak, bomb scare, earthquake. Auto or manual modes are selected by the front panel key switch which uses an industry standard 003 key. Alert & evac switches are fitted with safety covers to prevent accidental operation. Also inbuilt, is a unique tone for signalling lunch breaks, start of class etc.

The Alert, Evacuation and Bell tones and cancel function are triggered by the front switches when in manual mode or by the rear terminal contacts when in Auto mode for remote activation i.e. a clock, remote switch or remote wall plate. Provision has been made for a BGM (background music) source to be played through the controller. BGM is automatically muted when any other function is operated. A mic input is provided on the front panel. This can be used for either general or emergency paging or to record an emergency message. Paging overrides all other functions. A pre-announcement chime is available on the microphone input. This can be switched on or off via external dip switches. Switched 24V Out connections are provided for all emergency and paging conditions. These contacts are for connection of override relays in remote volume controls, warning strobes, bells etc.

1.2 FEATURES

- Tones conform to AS 1670.4
- Standard 1U 19" rack mount case
- Interfaces with Fire Indicator Boards
- Remote operation of Alert, Evac, Chime & Cancel tones
- 240V mains and 24V DC operation
- Auto/Manual/Isolate keyswitch
- Internationally accepted IEC mains socket (240V AC)
- Key switch to 003 standard
- Local operation of Alert, Evac and PA
- Voice over message on board
- Microphone socket for PA use
- Provision for BGM (back ground music)
- Provision for Auxiliary input with front volume control
- Bell chime facility
- Switched 24V DC output for override relays on volume controls
- Switched 24V DC output for strobe operation for Alert mode
- Switched 24V DC output for strobe operation for Evac mode
- Switched 24VDC output for bell mode
- On-board timer for remote alert activation adjustable
- Externally operated inputs are activated by switching to ground from 30secs to 7.5min in 30second increments
- Auxiliary level output
- Suitable for any amplifier with an auxiliary input
- 10 Year Warranty
- Australian Designed and Manufactured

1.3 WHAT'S IN THE BOX

A 4575B Alert/Evacuation Controller
240V AC IEC C13 Appliance Mains Lead 10A 3 Pin Black
Instruction Booklet

1.4 FRONT PANEL GUIDE

Fig 1.4A shows the layout of the A 4575B front panel.

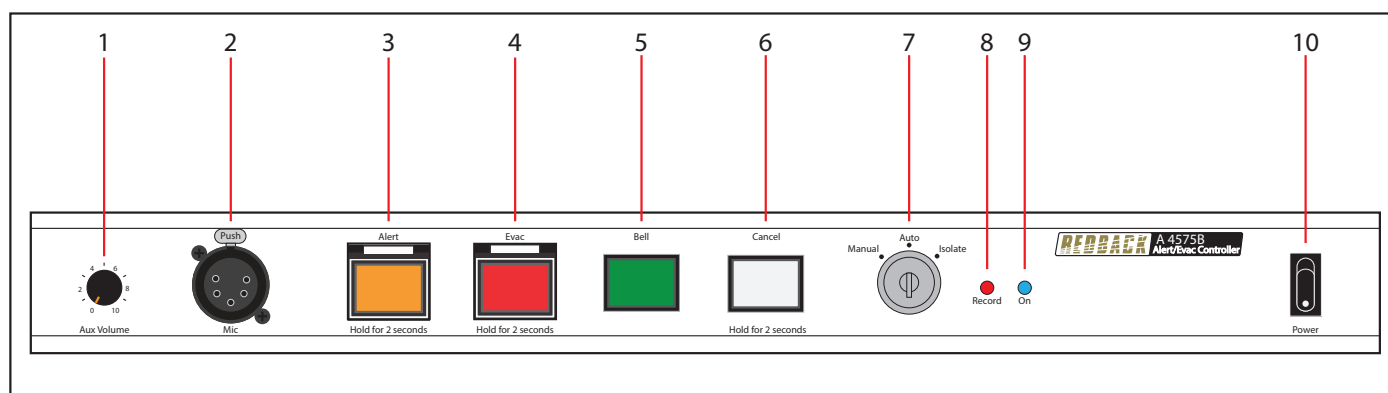


Fig 1.4A

- 1 Auxiliary input volume control**
Use this control to adjust the volume of the auxiliary music input.
- 2 Microphone socket**
Use this socket to connect a PTT (push to talk) microphone with a 5 pin male XLR plug. Suitable microphones with PTT function include the Altronics C 0379 desk paging microphone and the C 0334 CB type fist microphone. This microphone is used for emergency paging or to record the emergency voice over message.
- 3 Alert Tone Activation Switch**
This switch is used to activate the Alert tone. This switch will only function when the unit is in manual mode (see section 2.1 for more details). It may need to be pressed for up to 2 seconds to activate.
- 4 Evac Tone Activation Switch**
This switch is used to activate the Evacuation tone. This switch will only function when the unit is in manual mode (see section 2.1 for more details). It may need to be pressed for up to 2 seconds to activate.
- 5 Bell Tone Activation Switch**
This switch is used to activate the Bell tone.
- 6 Cancel Tone Activation Switch**
This switch is used to cancel the Alert, Evac or Bell tones. This switch will only function when the unit is in manual mode (see section 2.1 for more details). It may need to be pressed for up to 2 seconds to activate.
- 7 Operational Mode Keyswitch**
Use this to key switch to select which mode the unit will operate under. There are 3 modes available which are Auto, Manual and Isolate Mode (see section 2.1 for more details). This key is an industry standard 003 key.
- 8 Record Mode Indicator**
This led will illuminate when the unit is recording the voice-over message (see section 2.6 for more details).
- 9 On Indicator**
This led indicates the unit has power.
- 10 Power Switch**
Use this to turn the unit on.

- 10 Audio Out RCA Connectors**
Connect these outputs to the input of the background music amplifier
- 11 Aux In RCA Connectors**
Connect these to a background music source. The volume control for this is on the front of the unit. (see section 2.3 for more details).
- 12 BGM In RCA Connectors**
Connect these to a background music source. The volume control for this is on the rear of the unit so that it cannot be tampered with (see section 2.3 for more details).
- 13 Record Switch**
Press this button to start recording the "Voice-over" message. (see section 2.6 for more details).
- 14 Voice-over Volume**
Adjust this trimpot to adjust the message voice-over playback volume.
- 15 Microphone Volume**
Adjust this trimpot to adjust the paging microphone volume.
- 16 Dip Switches**
These are used to select the automatic switch-over time between the Alert and Evacuation tones and to also determine chime, voice-over and latching options (see section 2.4 for more details).
- 17 RJ45 connector**
These RJ45 ports are used to connect to the remote wall plates for activating the tones remotely (see section 3.3 for more details). The Altronics A 4585 and future peripheral devices also connect to these ports.
- 18 24V DC Input**
Connects to a 24V DC backup supply with at least 1 amp current capacity. (Please observe the polarity)
- 19 DC fuse (1A M205)**
This fuse protects the internal power supply. Replace with 1A rated fuse only.
- 20 230V AC power socket (Australian standard)**
Connects to 230V AC mains power with the included IEC lead.

2.0 SETUP GUIDE

2.1 MANUAL, AUTO AND ISOLATE MODES

The unit features 3 modes of operation.

These are Auto, Manual and Isolate ,selectable via the keyswitch on the front of the unit. The switch is keyed to a 003 standard key profile, and will allow removal of the key in the "Auto" position only.

Manual Mode:

In the manual position any of the functions may be initiated from the controls on the front panel, i.e. Alert, Evac, Cancel or Paging. This allows the operator to select either of these functions as required. With the key in this position the rear panel contacts are inoperative.

Manual Operation: Depressing the alert switch will activate the alert tone until it is reset. The alert tone is reset by depressing the cancel button. Note the cancel button will need to be depressed and held in for 2 seconds. The alert tone can be changed to an evacuation tone simply by depressing the evac switch. Note the evac button will need to be depressed and held in for 2 seconds. Where the unit has the voice over option activated, the evacuation tone will sound for four cycles, then play the voice over message twice, and repeat this sequence until it is cancelled.

Auto Mode:

When selected to the auto position the panel will respond to any trigger from the rear contacts of the unit. This could be the Alert, Evac, Bell or Cancel trigger which could be triggered from a Fire Indicator Board or Break Glass Alarms, etc. In the auto position the front panel alert, evac and cancel controls are inoperative. But all other functions will work, i.e.. front panel microphone paging, bell chime (front or rear)and music inputs on the rear of the unit whether they be the BGM or Aux inputs.

Auto Operation: If the alert tone is triggered the unit will sound for a preset time, and will then change to the evacuation mode. This preset time is determined by the internal DIP switch settings (see section 2.4). The evacuation tone will continue to sound until the panel has been reset by either triggering the cancel contact on the rear of the unit or by using the key to put the unit into manual mode and then pressing the cancel button. Once the alert tone has been triggered, triggering the evac contact will automatically change the unit from alert to evac mode.

When the alert is triggered, the unit will sound the alert tone for a preset time, then the evac tone for four cycles, sound the voice over message twice, then sound the evac tone for four cycles, and continue in this evac/voice over sequence (see section 2.6 for more details about the voice-over).

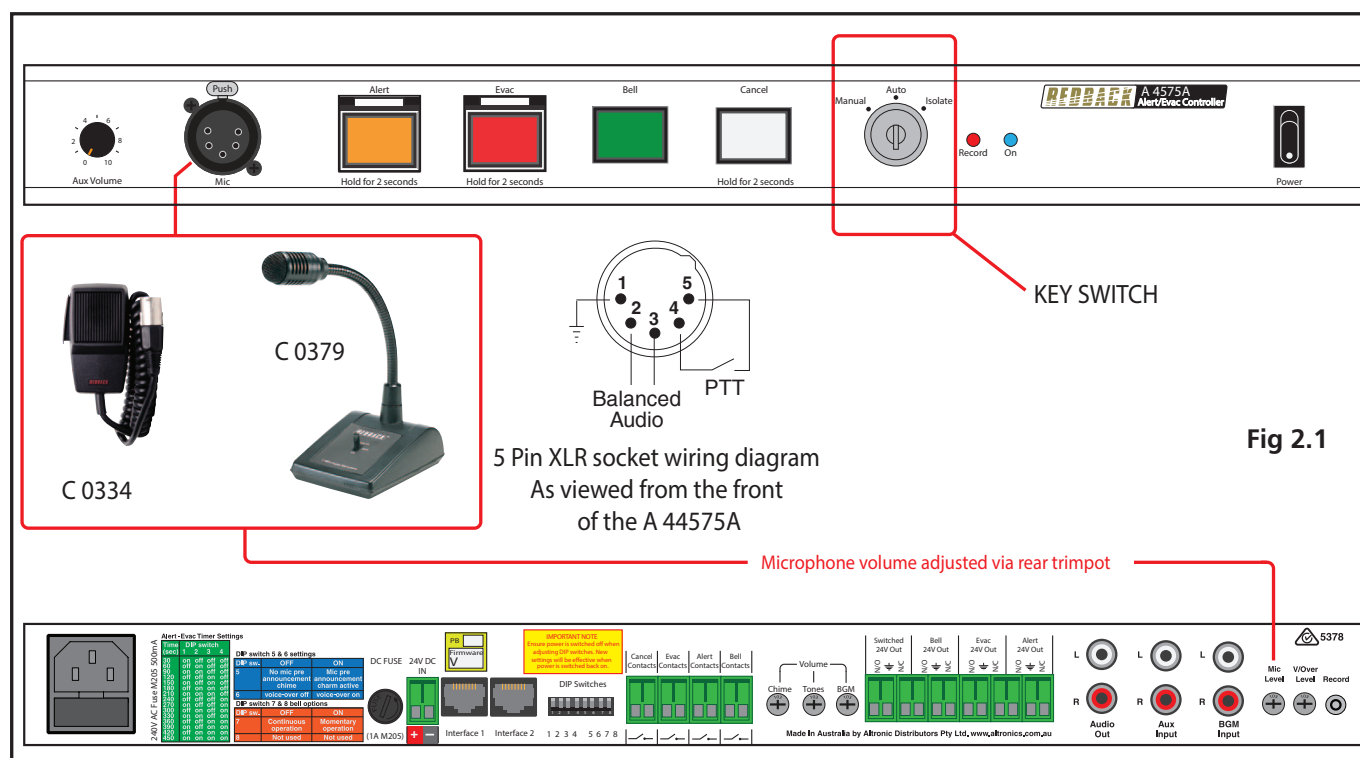
Note 1: The tone that is being sounded (i.e. alert, evac, bell) will be indicated by the illumination of the relevant front panel indicator.

Note 2: In the Auto position, all other functions will work, e.g. BGM, bell chime, and paging.

Note 3: To cancel a tone in Auto mode, either use the remote cancel contacts or the key switch switched to manual mode & the cancel button. Note the cancel button will need to be depressed for 2 seconds. This is to prevent accidental cancelling of a tone.

Isolate Mode:

This isolates the unit so that the Alert,Evac or Bell functions cannot be activated either by the front panel switches, the rear contacts or by the remote wall plates.



2.2 PRIORITIES

The order of priority for the functions of the A 4575B are as follows.

- 1) Paging (Via the front panel microphone)
- 2) Evacuation Tone
- 3) Alert Tone
- 4) Bell/Chime Tone
- 5) BGM (background music) or Auxilliary Input

Microphone Input

The A 4575B has a microphone input on the front of the unit. This microphone can be used for either general paging or emergency paging. Paging overrides all other functions of the A 4575B. It can also be used to record the emergency message if this is required (see section ? for more details). Suitable microphones with the PTT function include the Altronics C 0334 CB type microphone and the C 0379 desk paging microphone. The connection details are shown in fig 2.1. To use an unbalanced microphone, short pins 1 and 2 together on the microphone plug. The output level of the microphone is adjusted via the trimpot on the rear of the unit (refer to fig 2.1).

A pre-announcement chime which is available on the microphone input is set by the DIP switches on the rear of the unit (see section 2.4 for more details).

Evacuation Tone

This tone conforms to Australian Standard 1670.4 and once activated has the second highest priority. This can be overridden only by the paging microphone.

Alert Tone

The Alert tone once activated can be overridden by the Evac tone or by the paging microphone.

Bell/Chime Tone

Included is a unique tone or bell chime for signalling lunch breaks, start of class etc. This can be operated from the front panel or via contacts on the rear panel for remote activation i.e.. by a time clock or remote switch. This can be overridden by the Alert or Evac tones and by the paging microphone.

BGM and Aux Input

Provisions have been made for a BGM source to be played through the controller. The BGM and Aux inputs are automatically muted when any other function is operated (see section 2.3 for more details).

2.3 AUDIO CONNECTIONS

Provision has been made for two different audio sources to be connected to the unit. These are the BGM input and the Aux input. Both of these inputs have the same priority and are automatically muted when any other function is activated i.e. Paging, Alert, Evac or Chime triggering.

BGM Input:

This input is for connecting a background music source to the controller. The stereo sockets are combined internally to form a mono signal. The volume level is set via the BGM level control on the rear of the unit (See Fig 2.3) so that the volume cannot easily be tampered with.

Aux Input:

This input is for connecting an auxiliary source to the controller for the purposes of background music where the source volume is required to be accessible from the front panel. The stereo sockets are combined internally to form a mono signal.

Audio Output:

This output consists of stereo RCA sockets with an output of 0dBm into a 600Ω input. This is suitable for most PA amplifier auxiliary inputs.

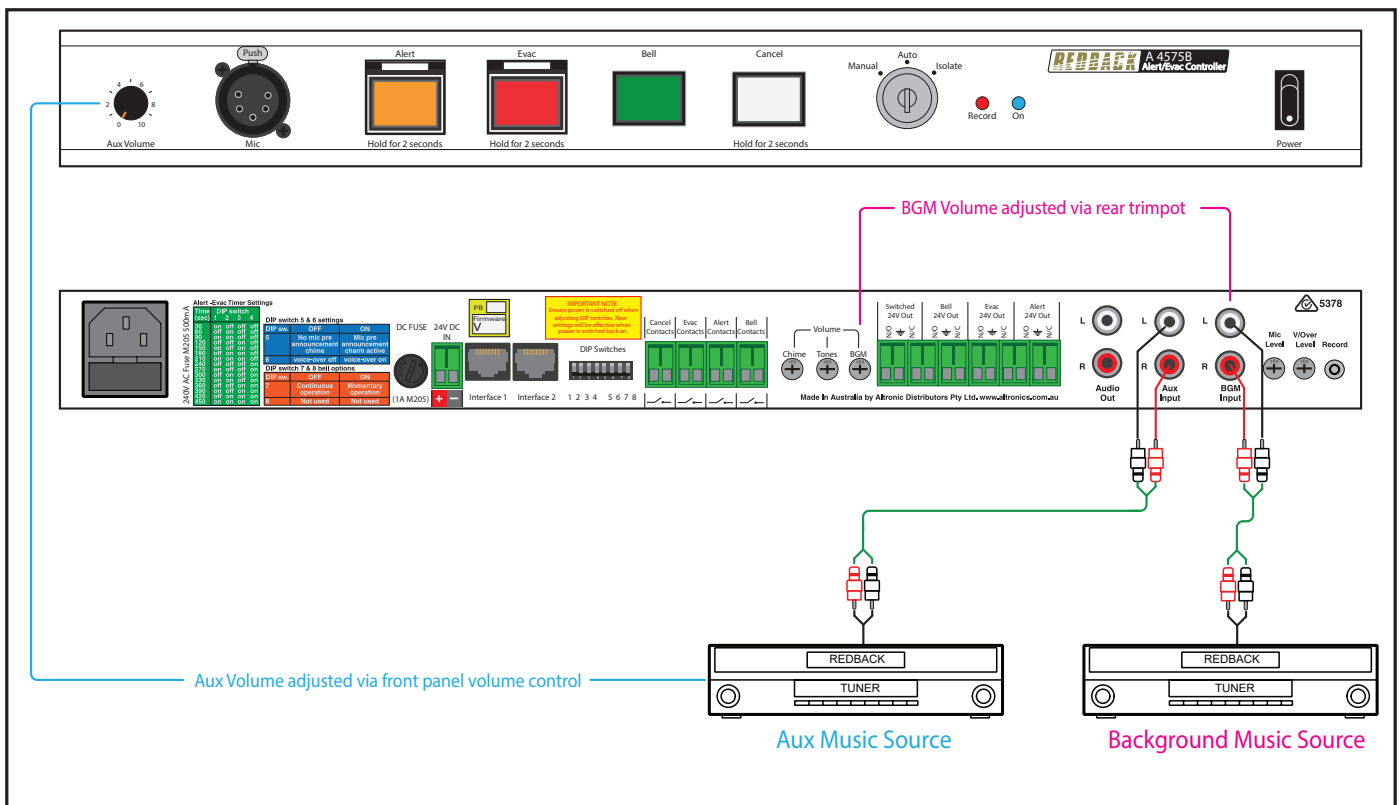


Fig 2.3

Rear Panel Volume Controls:

The output levels of the Alert, Evac and bell/chime tones can all be adjusted via trimpots located on the rear of the unit. Volumes are set as follows:

Tones: This sets the output level of the alert & evac tones.

Chime: This sets the output level of the bell/chime.

NOTE: The microphone volume is affected by the tones level. Set this level after setting the tones volume control as the mic volume is relative to the tones volume. Adjusting the tones volume up will increase the mic volume, and adjusting the tones volume down will decrease the mic volume.

2.4 DIP SWITCH SETTINGS

IMPORTANT NOTE:

Ensure power is switched off when adjusting DIP switches.
New settings will be effective when power is switched back on.

Switches 1-4 Evacuation Timer Settings:

These switches control the time period before the unit switches from the alert to the evac tone (in auto mode). This time period can be switched from 30s to 7.5 minutes in 30s increments. See fig 2.4 for more information. Factory preset is 30s.

Switch 5 Pre-announcement Setting:

DIP switch 5 is used to configure the pre-announcement chime, which is heard when the PTT microphone paging is activated.

OFF: No pre-announcement chime

ON: Pre announcement chime is activated immediately upon commencement of paging.

Switch 6 Voice Over Setting:

DIP switch 6 is used to configure the voice over message (see section

OFF: Voice over will not play during the evac cycle

ON : Voice over will play during the evac cycle.

Switch 7 Bell Setting:

DIP switch 7 sets the bell to either continuous or momentary mode. This is regardless of the bell being activated via the front bell switch or the rear bell contact.

In continuous operation the bell will sound for as long as the bell switch or rear contact is triggered.

In momentary operation the bell will sound for only a short period regardless of how long the bell is triggered.

OFF: Continuous operation

ON: Momentary operation

Switch 8 Not Used.

Alert -Evac Timer Settings

Time (sec)	DIP switch			
	1	2	3	4
30	on	off	off	off
60	off	on	off	off
90	on	on	off	off
120	off	off	on	off
150	on	off	on	off
180	off	on	on	off
210	on	on	on	off
240	off	off	off	on
270	on	off	off	on
300	off	on	off	on
330	on	on	off	on
360	off	off	on	on
390	on	off	on	on
420	off	on	on	on
450	on	on	on	on

DIP switch 5 & 6 settings

DIP sw.	OFF	ON
5	No mic pre announcement chime	Mic pre announcement charm active
6	voice-over off	voice-over on

DIP switch 7 & 8 bell options

DIP sw.	OFF	ON
7	Continuous operation	Momentary operation
8	Not used	Not used

Fig 2.4

2.5 24V OUTPUT CONNECTIONS

Switched 24V Out:

These contacts are for connection of override relays in remote volume controls. An override relay is necessary where attenuators are used so that the alert tone, evac tone or message is broadcast at full volume regardless of the volume setting on the individual volume control (attenuator).

The override relay can be set to "NORMAL" mode when connection is made between the N/O (normally open) contact and the GND connection. In this configuration 24V appears when any of the alert tone, evac tone, voice over message or paging functions are activated.

The override relay can be set to "FAILSAFE" mode when connection is made between the N/C (normally closed) contact and the GND connection. In this configuration 24V is removed when any of the alert tone, evac tone, voice over message or paging functions are activated.

Alert/Evac 24V Out:

These contacts are for switched 24V outputs whenever the alert or evac tones are activated. These may be used to run external systems such as strobes in unusually noisy environments. These operate in the same manner as the switched 24V out contacts i.e.: connection between the N/O contact and the GND contact will operate in NORMAL mode and connection between the N/C contact and the GND will operate in FAILSAFE mode.

Bell 24V Out:

These contacts are for operating an external relay used to operate something like a lunch bell etc. These operate in the same manner as the switched 24V out contacts i.e.: connection between the N/O contact and the GND contact will operate in NORMAL mode and connection between the N/C contact and GND will operate in FAILSAFE mode.

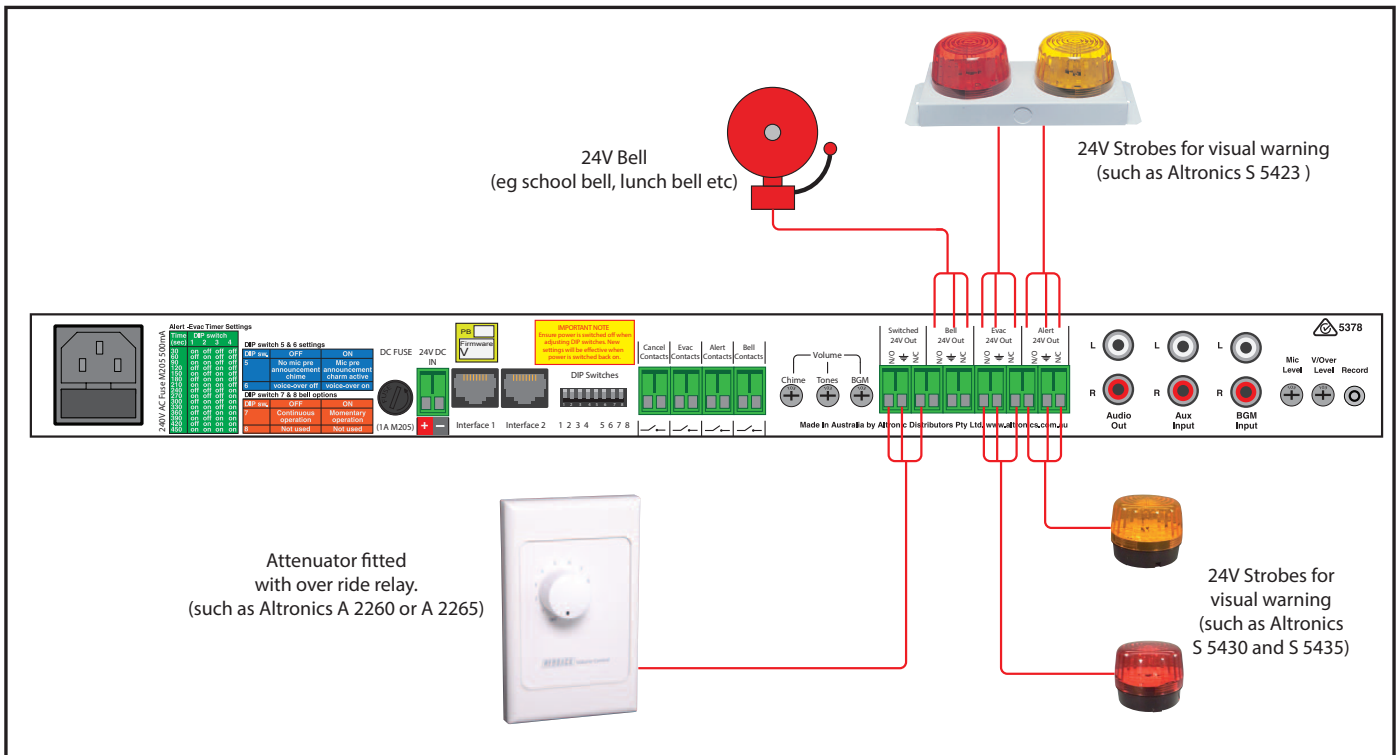


Fig 2.5

2.6 RECORDING OF VOICE OVER MESSAGE

The A 4575B has the facility to record an emergency message which can be set to play during the Evac tone cycle. To record a message follow these steps.

- 1) Connect a push to talk microphone to the front panel XLR input socket. The microphone must have the PTT (push to talk) function. The wiring for these microphones can be seen in Fig 2.6. Suitable microphones with the PTT function include the Altronics C 0334 CB type microphone and the C 0379 desk paging microphone. Set the keyswitch to "manual" (the unit will not record in the "auto" or "isolate" positions).
2. Push the "record" button on the back of the unit. The record LED on the front of the unit will illuminate to indicate it is ready to record.
3. Use the microphone PTT button to start recording your message. The message can be any length from 1 to 16 seconds. Recording will not begin until the PTT is activated.
4. Message recording will finish when the PTT microphone is de-activated. The recorded message will then be played back. The output level of the recorded message can be adjusted using the trimpot on the rear of the unit as shown in Fig 2.6.

NOTE: The microphone volume is affected by the tones level. Set this level after setting the tones volume control as the mic volume is relative to the tones volume. Adjusting the tones volume up will increase the mic volume, and adjusting the tones volume down will decrease the mic volume.

5. To re-record the message simply follow steps 2 to 4 again.

NOTE: To cancel recording a message, turn the key switch to "isolate" or remove the power from the unit.

Activating the Voice Over Message:

Now that the message is recorded it needs to be turned ON. Switch DIP switch 6 to "ON" to activate the recorded message to play during the evacuation tone cycle. (Refer to Dip switch settings in section 2.4)

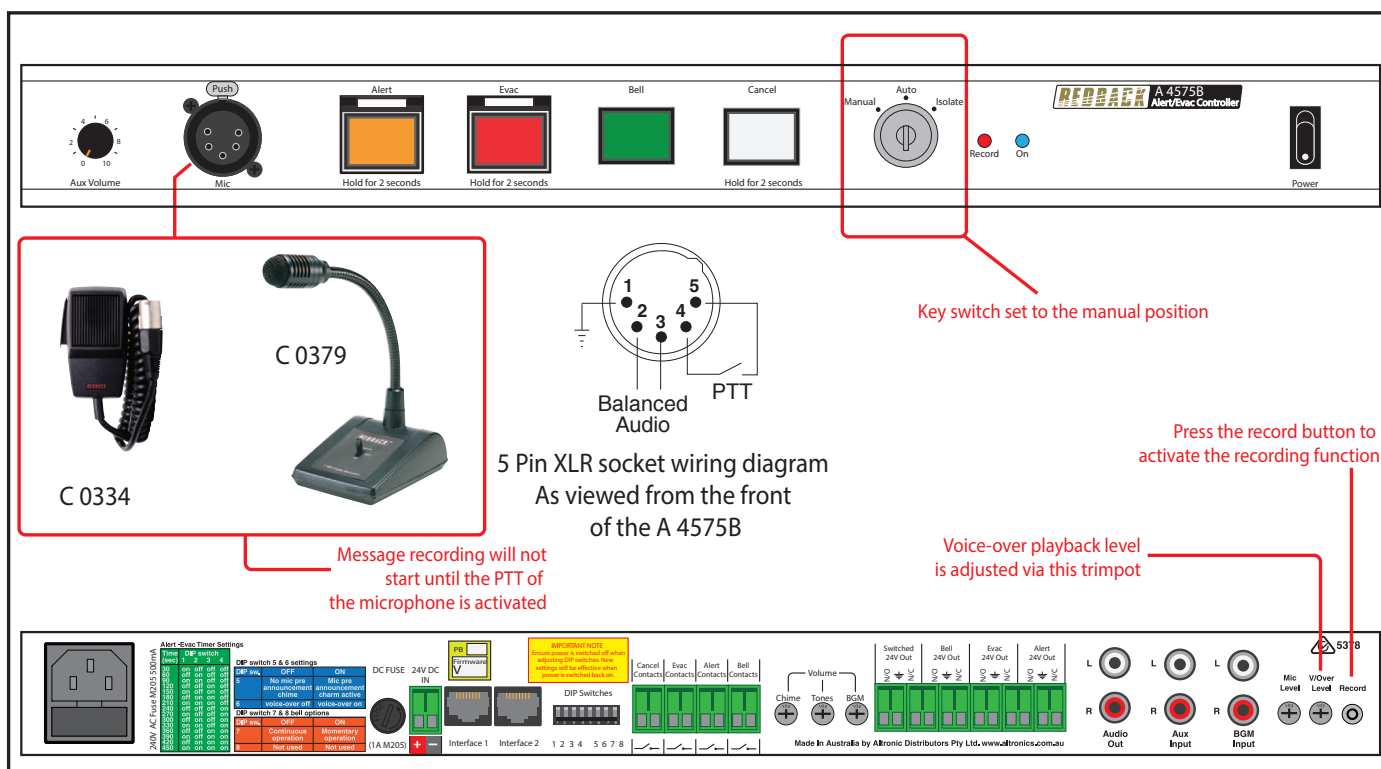


Fig 2.6

3.0 REMOTE WALL PLATES

There are four remote wall plates which can be connected to the A 4575B for remote triggering of the Alert, Evacuation and Bell tones and for remotely cancelling any tones which may be active.

3.1 A 2078B Remote Plate

The A 2078B wall plate provides a remote means of triggering the Alert and Evacuation tones and the cancel function. Connection is made to the A 4575B via a minimum of 7 wires as shown in Fig 3.1B. Remote triggering is only available when the A 4575B is in "Auto" mode which is selected by the key switch on the front of the A 4575B. If standard Cat5 cable is used for the wiring, the plate can be located up to 30m away from the main unit. This can be increased to 100m away using heavier guage cable, which reduces the voltage drop across this distance and ensures the switch leds illuminate.

The Alert/Evac/Cancel switches on the A 2078B wall plate are connected to the corresponding contacts on the rear of the A 4575B. While the Alert and Evac leds on the wall plate are connected to the Alert 24V and Evac 24V outputs of the A 4575B. The cancel led is not connected. A minimum of seven wires can be used if the ground connections of the Alert and Evac 24V outputs are linked and if the Alert/Evac and cancel switch grounds are linked together (see Fig 3.1B).

If the Alert and Evac switches on the A 2078B are pressed when the A 4575B main unit is in "Manual" or "Isolate" mode, nothing will happen. If the Alert and Evac switches are pressed on the A 4575B while in "Manual" mode the Alert and Evac switches on the A 2078B wall plate will illuminate.

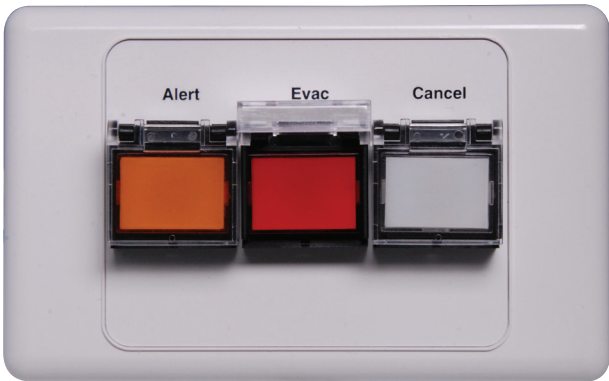


Fig 3.1A

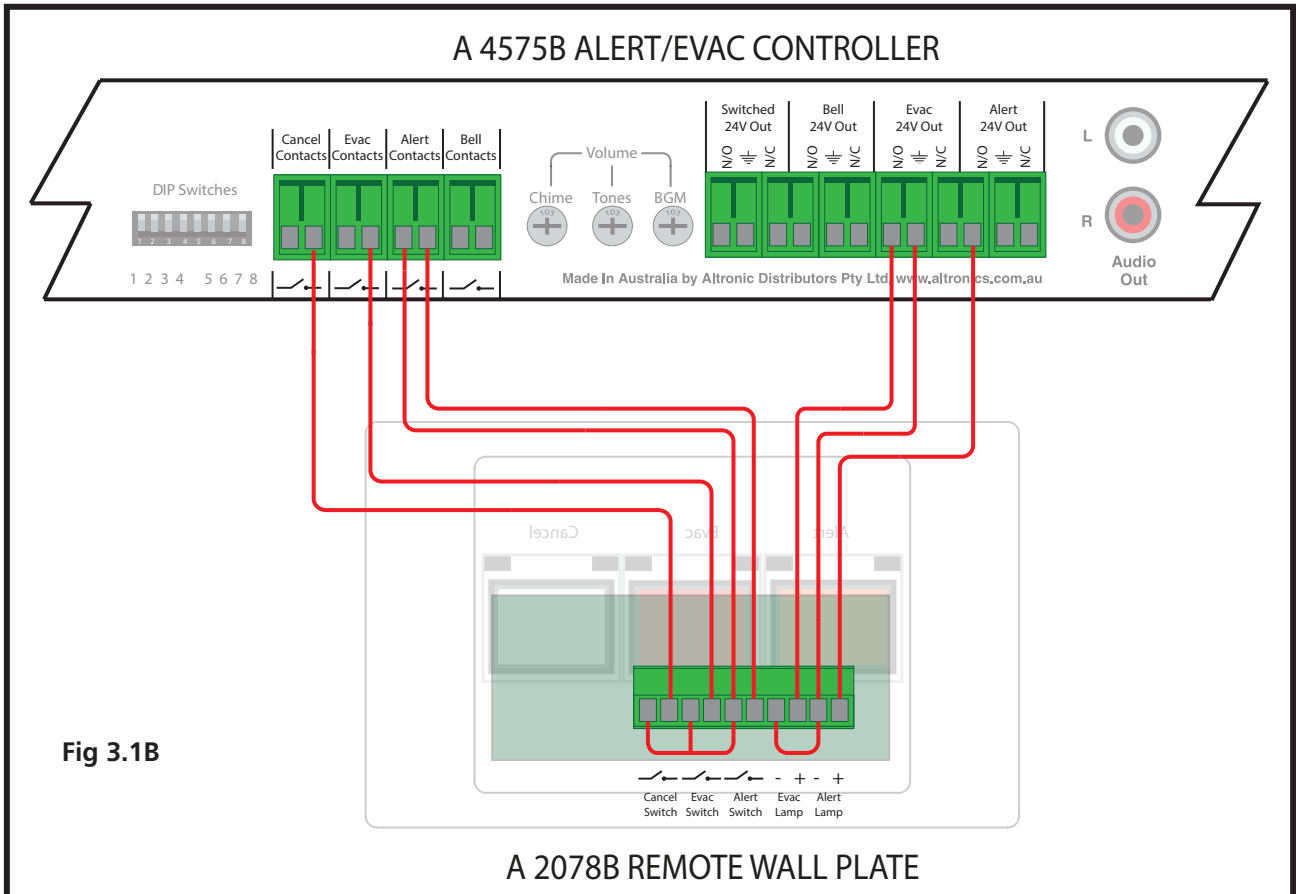


Fig 3.1B

3.2 A 2081 Remote Plate

The A 2081 wall plate provides a remote means of triggering the Alert, Evacuation and Bell tones and the cancel function. Connection is made to the A 4575B via a minimum of 9 wires as shown in Fig 3.2B. Remote triggering is only available when the A 4575B is in "Auto" mode which is selected by the key switch on the front of the A 4575B. If standard Cat5 cable is used for the wiring, the plate can be located up to 30m away from the main unit. This can be increased to 100m away using heavier guage cable, which reduces the voltage drop across this distance and ensures the switch leds illuminate. The Alert/Evac/Chime/Cancel switches on the A 2081 wall plate are connected to the corresponding contacts on the rear of the A 4575B. While the Alert, Evac and Bell leds on the wall plate are connected to the Alert, Evac and Bell 24V outputs of the A 4575B. The cancel led is not connected. A minimum of nine wires can be used if the ground connections of the Alert, Evac and Bell 24V outputs are linked and if the Alert/Evac/Chime and cancel switch grounds are linked together (see Fig 3.2B).

If the Alert, Evac and Chime switches on the A 2081 are pressed when the A 4575B main unit is in "Manual" OR "Isolate" mode, nothing will happen. If the Alert, Evac and Bell switches are pressed on the A 4575B while in "Manual" mode the Alert, Evac and Chime switches on the A 2081B wall plate will illuminate.

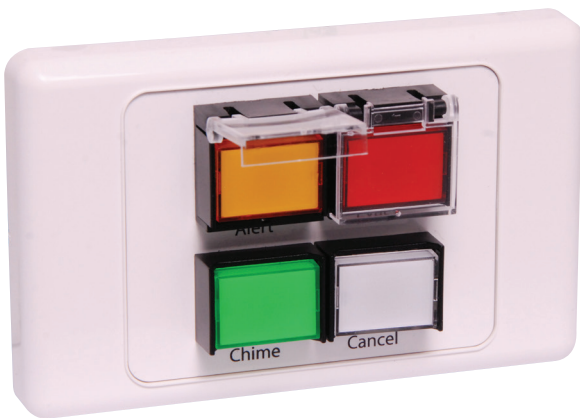


Fig 3.2A

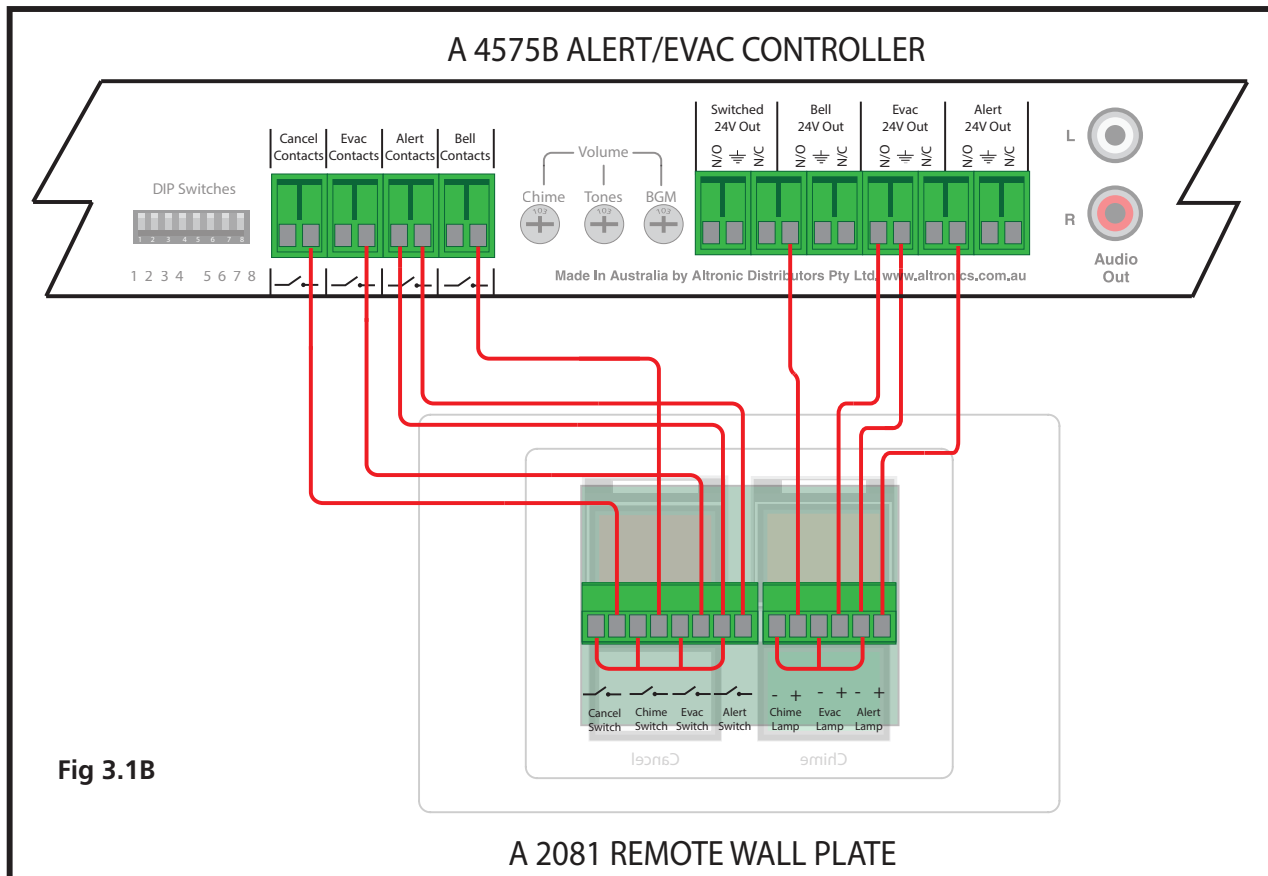


Fig 3.1B

3.3 A 4578 Remote Plate

The A 4578 wall plate allows a remote means of triggering the Alert and Evacuation tones and the cancel function. The switches are momentary operation and must be pressed for up to 3 seconds to activate. The switches have protective “flip up” covers to prevent accidental operation.

Connection is made to the A 4575B via standard Cat5e cabling as shown in Fig 3.3C. There are two RJ45 ports on the rear of the A 4578 wall plate, either of which can be used. If the A 4578 has a connection problem with the A 4575B main unit the LED on the wall plate will flash.

Remote triggering is only available when the A 4575B is in “Auto” mode which is selected by the key switch on the front of the A 4575B.

If the Alert and Evac switches on the A 4578 are pressed when the A 4575B main unit is in “Manual” or “Isolate” mode, nothing will happen. If the Alert and Evac switches are pressed on the A 4575B while in “Manual” mode the Alert and Evac switches on the A 4578 wall plate will illuminate. A LED on the wall plate will illuminate when the A 4575B main unit is in “Manual” or “Isolate” mode to alert the user that the wall plate is inactive.

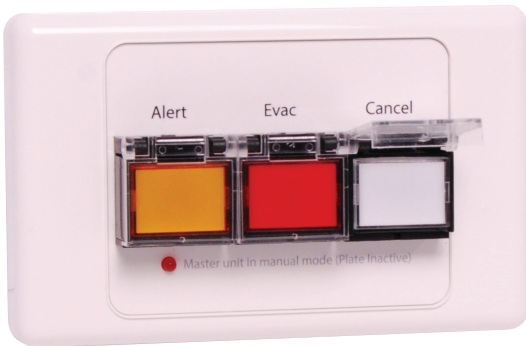


Fig 3.3A

CASCADING THE A 4578 PLATES

If more than one remote wall plate is required then the A 4578 wall plates can be cascaded together with only one connection back to the A 4575B required (see Fig 3.3C).

A Maximum of 16 plates is recommended, (If more than 16 wall plates are required contact Altronics for configuration details). There are two RJ45 ports on the rear of the A 4575B, either of which can be used for connection to the wall plates.

The A 4575B also supports connection of the A 4581 wall plate which is the same as the A 4578 but with the addition of a “Chime” button. Both the A 4578 and A 4581 plates can be connected to the A 4575B at the same time and in any combination. Figure 3.3D illustrates one example.

Every wall plate must have a unique ID which is set by the DIP switches which are accessed on the rear of the unit. A maximum of 63 ID's are available. Fig 3.3B illustrates the DIP switch ID settings.

DIP Switches 7-8 are not used.

DIP Switch Settings						
ID	1	2	3	4	5	6
1	ON	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF
5	ON	OFF	ON	OFF	OFF	OFF
6	OFF	ON	ON	OFF	OFF	OFF
7	ON	ON	ON	OFF	OFF	OFF
8	OFF	OFF	OFF	ON	OFF	OFF
9	ON	OFF	OFF	ON	OFF	OFF
10	OFF	ON	OFF	ON	OFF	OFF
11	ON	ON	OFF	ON	OFF	OFF
12	OFF	OFF	ON	ON	OFF	OFF
13	ON	OFF	ON	ON	OFF	OFF
14	OFF	ON	ON	ON	OFF	OFF
15	ON	ON	ON	ON	OFF	OFF
16	OFF	OFF	OFF	OFF	ON	OFF
17	ON	OFF	OFF	OFF	ON	OFF
18	OFF	ON	OFF	OFF	ON	OFF
19	ON	ON	OFF	OFF	ON	OFF
20	OFF	OFF	ON	OFF	ON	OFF
21	ON	OFF	ON	OFF	ON	OFF
22	ON	OFF	ON	ON	OFF	OFF
23	ON	ON	ON	OFF	ON	OFF
24	OFF	OFF	OFF	ON	ON	OFF
25	ON	OFF	OFF	ON	ON	OFF
26	OFF	ON	OFF	ON	ON	OFF
27	ON	ON	OFF	ON	ON	OFF
28	OFF	OFF	ON	ON	ON	OFF
29	ON	OFF	ON	ON	ON	OFF
30	OFF	ON	ON	ON	ON	OFF
31	ON	ON	ON	ON	ON	OFF
32	OFF	OFF	OFF	OFF	OFF	ON

DIP Switch Settings						
ID	1	2	3	4	5	6
33	ON	OFF	OFF	OFF	OFF	ON
34	OFF	ON	OFF	OFF	OFF	ON
35	ON	ON	OFF	OFF	OFF	ON
36	OFF	OFF	ON	OFF	OFF	ON
37	ON	OFF	ON	OFF	OFF	ON
38	OFF	ON	ON	OFF	OFF	ON
39	ON	ON	ON	OFF	OFF	ON
40	OFF	OFF	OFF	ON	OFF	ON
41	ON	OFF	OFF	ON	OFF	ON
42	OFF	ON	OFF	ON	OFF	ON
43	ON	ON	OFF	ON	OFF	ON
44	OFF	OFF	ON	ON	OFF	ON
45	ON	OFF	ON	ON	OFF	ON
46	OFF	ON	ON	ON	OFF	ON
47	ON	ON	ON	ON	OFF	ON
48	OFF	OFF	OFF	OFF	ON	ON
49	ON	OFF	OFF	OFF	ON	ON
50	OFF	ON	OFF	OFF	ON	ON
51	ON	ON	OFF	OFF	ON	ON
52	OFF	OFF	ON	OFF	ON	ON
53	ON	OFF	ON	OFF	ON	ON
54	OFF	ON	ON	OFF	ON	ON
55	ON	ON	ON	OFF	ON	ON
56	OFF	OFF	OFF	ON	ON	ON
57	ON	OFF	OFF	ON	ON	ON
58	OFF	ON	OFF	ON	ON	ON
59	ON	ON	OFF	ON	ON	ON
60	OFF	OFF	ON	ON	ON	ON
61	ON	OFF	ON	ON	ON	ON
62	OFF	ON	ON	ON	ON	ON
63	ON	ON	ON	ON	ON	ON

Fig 3.3B

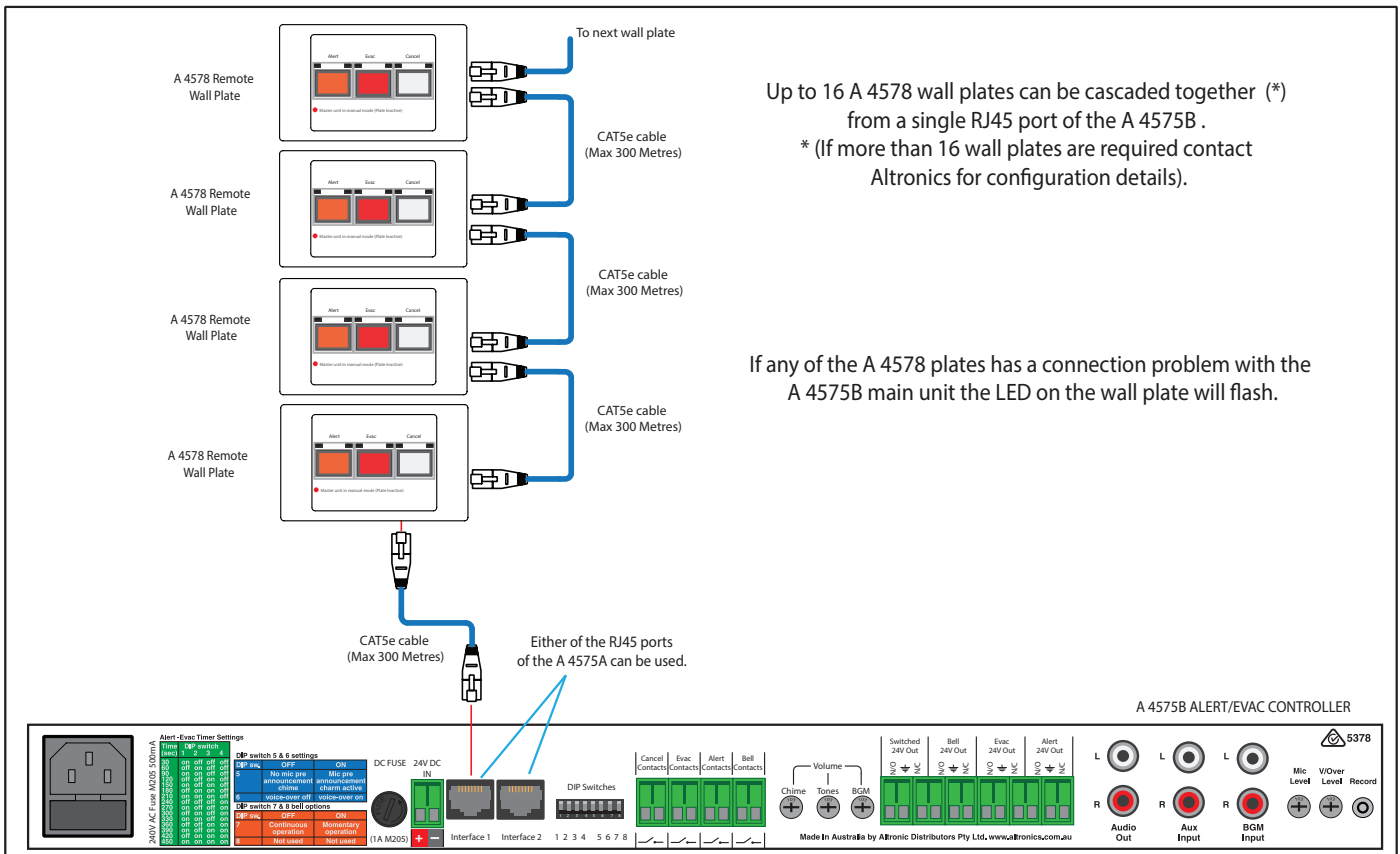


Fig 3.3C

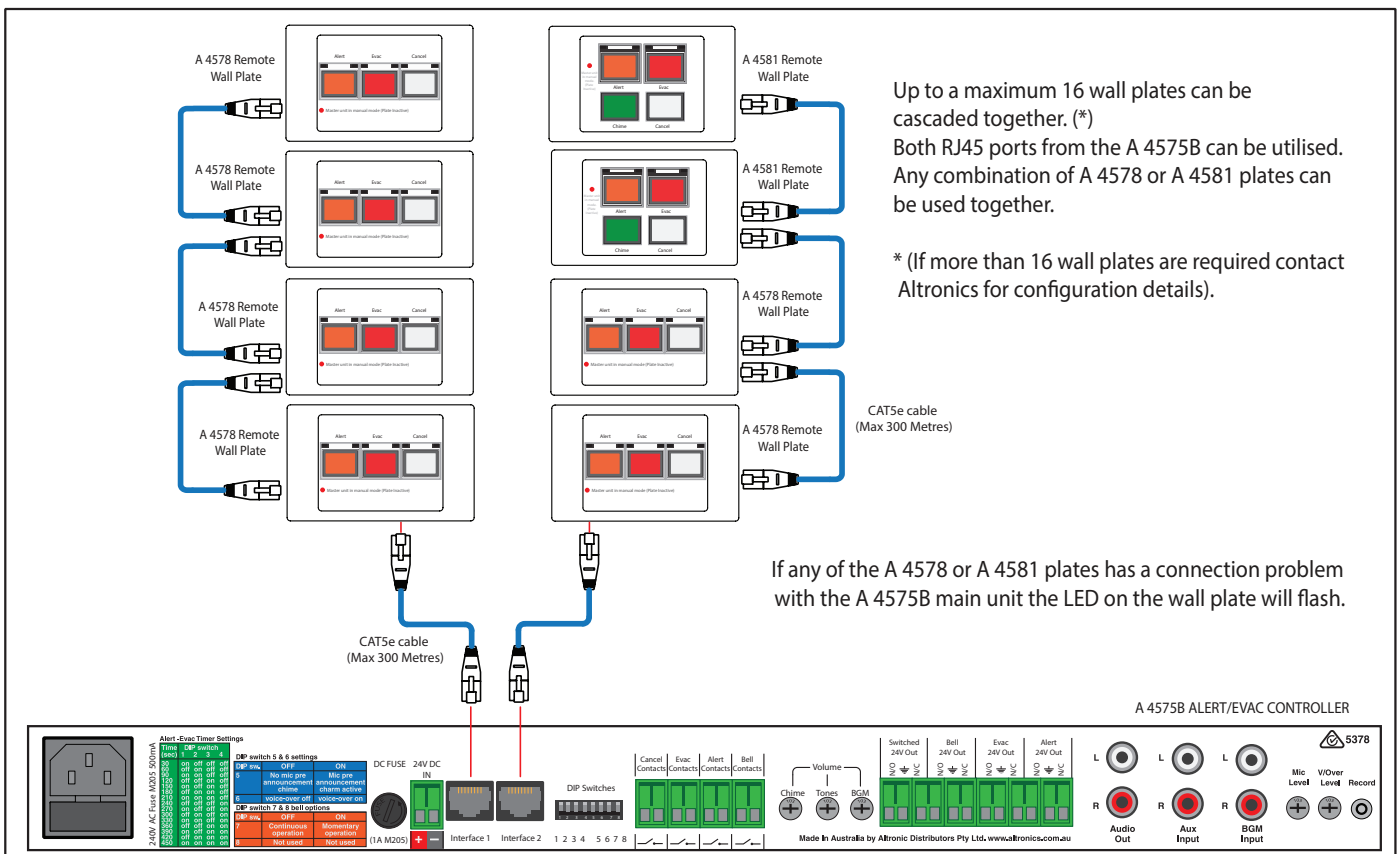


Fig 3.3D

3.4 A 4581 Remote Plate

The A 4581 wall plate provides a remote means of triggering the Alert, Evacuation and Bell tones and the cancel function. The switches are momentary operation and must be pressed for up to 3 seconds to activate. The Alert and Evac switches have protective “flip up” covers to prevent accidental operation.

Connection is made to the A 4575B via standard Cat5e cabling as shown in Fig 3.3C. There are two RJ45 ports on the rear of the A 4581 wall plate, either of which can be used.

If the A 4581 has a connection problem with the A 4575B main unit the LED on the wall plate will flash.

Remote triggering is only available when the A 4575B is in “Auto” mode which is selected by the key switch on the front of the A 4575B.

If the Alert, Evac and Bell switches on the A 4581 are pressed when the A 4575B main unit is in “Manual” or “Isolate” mode, nothing will happen. If the Alert, Evac and Bell switches are pressed on the A 4575B while in “Manual” mode the Alert, Evac and Bell switches on the A 4581 wall plate will illuminate. The LED on the wall plate will illuminate when the A 4575B main unit is in “Manual” or “Isolate” mode to alert the user that the wall plate is inactive.

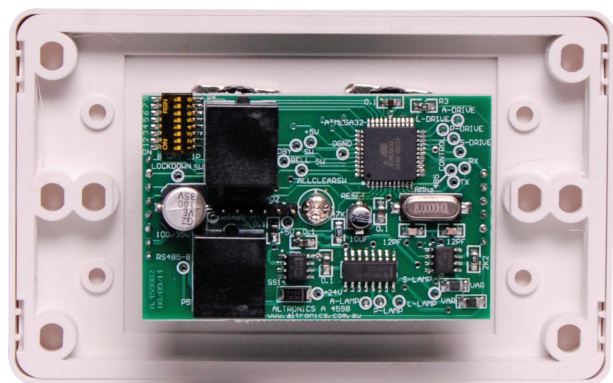


Fig 3.4A

DIP Switch Settings						
ID	1	2	3	4	5	6
1	ON	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF
5	ON	OFF	ON	OFF	OFF	OFF
6	OFF	ON	ON	OFF	OFF	OFF
7	ON	ON	ON	OFF	OFF	OFF
8	OFF	OFF	OFF	ON	OFF	OFF
9	ON	OFF	OFF	ON	OFF	OFF
10	OFF	ON	OFF	ON	OFF	OFF
11	ON	ON	OFF	ON	OFF	OFF
12	OFF	OFF	ON	ON	OFF	OFF
13	ON	OFF	ON	ON	OFF	OFF
14	OFF	ON	ON	ON	OFF	OFF
15	ON	ON	ON	ON	OFF	OFF
16	OFF	OFF	OFF	OFF	ON	OFF
17	ON	OFF	OFF	OFF	ON	OFF
18	OFF	ON	OFF	OFF	ON	OFF
19	ON	ON	OFF	OFF	ON	OFF
20	OFF	OFF	ON	OFF	ON	OFF
21	ON	OFF	ON	OFF	ON	OFF
22	OFF	ON	ON	OFF	ON	OFF
23	ON	ON	ON	OFF	ON	OFF
24	OFF	OFF	OFF	ON	ON	OFF
25	ON	OFF	OFF	ON	ON	OFF
26	OFF	ON	OFF	ON	ON	OFF
27	ON	ON	OFF	ON	ON	OFF
28	OFF	OFF	ON	ON	ON	OFF
29	ON	ON	OFF	ON	ON	OFF
30	OFF	ON	ON	ON	ON	OFF
31	ON	ON	ON	ON	ON	OFF
32	OFF	OFF	OFF	OFF	OFF	ON
33	ON	OFF	OFF	OFF	OFF	ON
34	OFF	ON	OFF	OFF	OFF	ON
35	ON	ON	OFF	OFF	OFF	ON
36	OFF	OFF	ON	OFF	OFF	ON
37	ON	OFF	ON	OFF	OFF	ON
38	OFF	ON	ON	OFF	OFF	ON
39	ON	ON	ON	OFF	OFF	ON
40	OFF	OFF	OFF	ON	OFF	ON
41	ON	OFF	OFF	ON	OFF	ON
42	OFF	ON	OFF	ON	OFF	ON
43	ON	ON	OFF	ON	OFF	ON
44	OFF	OFF	ON	ON	OFF	ON
45	ON	OFF	ON	ON	OFF	ON
46	OFF	ON	ON	ON	OFF	ON
47	ON	ON	ON	ON	OFF	ON
48	OFF	OFF	OFF	OFF	ON	ON
49	ON	OFF	OFF	OFF	ON	ON
50	OFF	ON	OFF	OFF	ON	ON
51	ON	ON	OFF	OFF	ON	ON
52	OFF	OFF	ON	OFF	ON	ON
53	ON	OFF	ON	OFF	ON	ON
54	OFF	ON	ON	OFF	ON	ON
55	ON	ON	ON	OFF	ON	ON
56	OFF	OFF	OFF	ON	ON	ON
57	ON	OFF	OFF	ON	ON	ON
58	OFF	ON	OFF	ON	ON	ON
59	ON	ON	OFF	ON	ON	ON
60	OFF	OFF	ON	ON	ON	ON
61	ON	OFF	ON	ON	ON	ON
62	OFF	ON	ON	ON	ON	ON
63	ON	ON	ON	ON	ON	ON

Fig 3.4B

CASCADING THE A 4581 PLATES

If more than one remote wall plate is required then the A 4581 wall plates can be cascaded together with only one connection back to the A 4575B required (see Fig 3.4C). A Maximum of 16 plates is recommended, (If more than 16 wall plates are required contact Altronics for configuration details). There are two RJ45 ports on the rear of the A 4575B, either of which can be used for connection to the wall plates.

The A 4575B also supports connection of the A 4578 wall plate which is the same as the A 4581 but without the “Chime” button. Both the A 4578 and A 4581 plates can be connected to the A 4575B at the same time and in any combination. Figure 3.4D illustrates one example.

Every wall plate must have a unique ID which is set by the DIP switches which are accessed on the rear of the unit. A maximum of 63 ID's are available. Fig 3.4B illustrates the DIP switch ID settings.

DIP Switches 7-8 are not used.

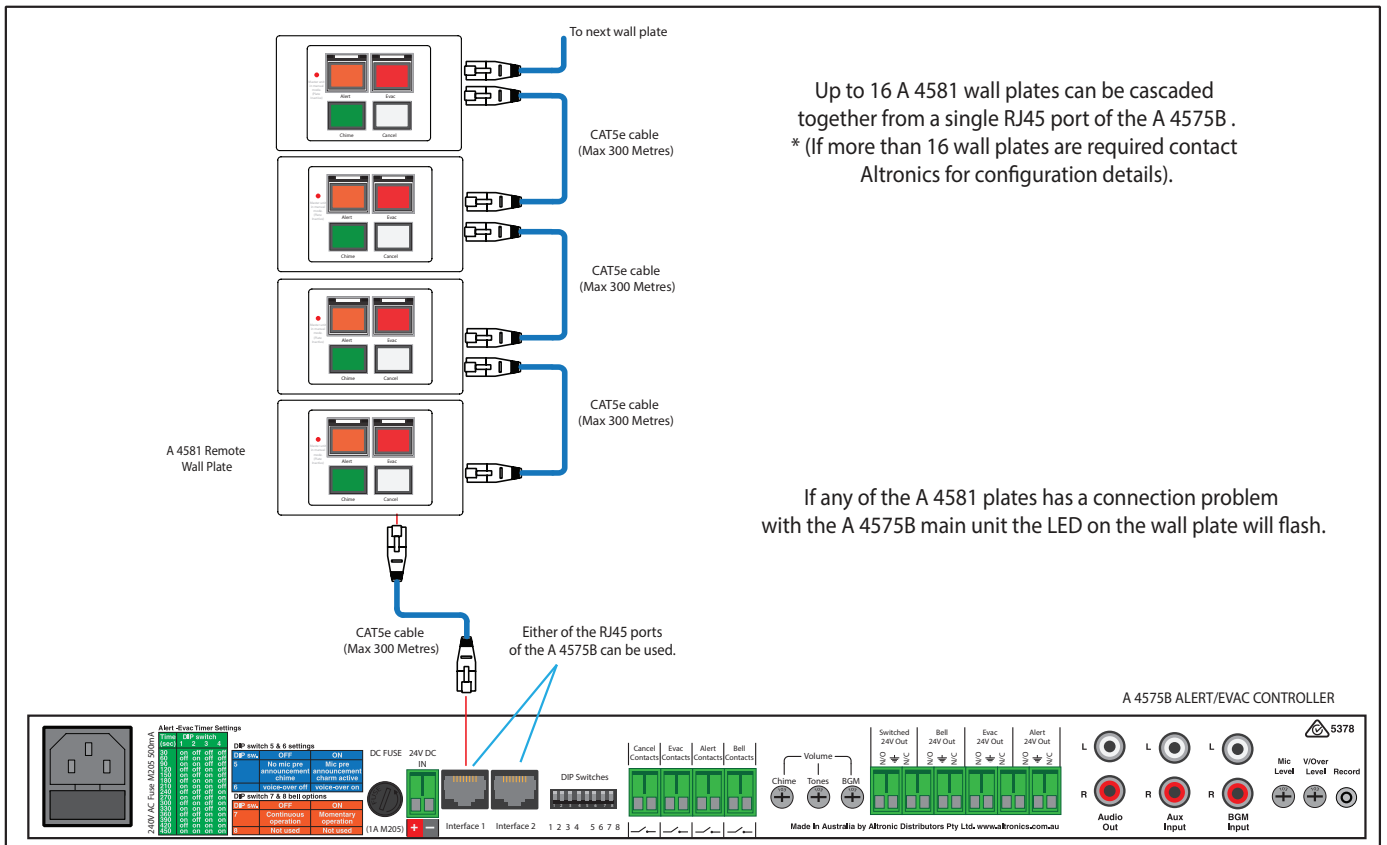


Fig 3.4C

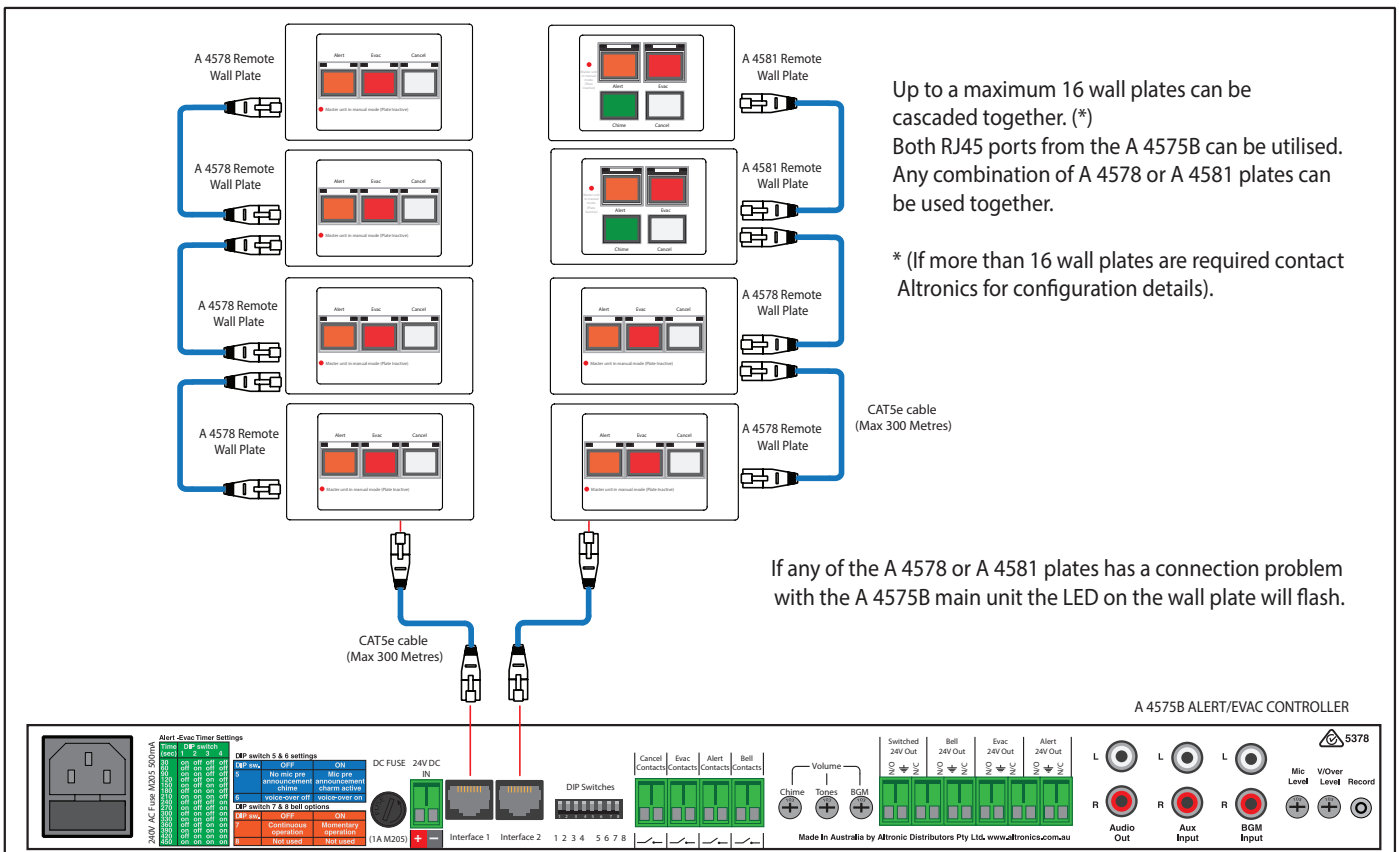


Fig 3.4D

4.0 TROUBLE SHOOTING

4.1 SYMPTOMS AND REMEDIES

SYMPTOMS	REMEDIES
Low Level Recording	Ensure that a good quality mic is being used and the operator is speaking clearly into the mic.
Mic Volume Level Is Low	Adjust mic volume on rear of unit
Alert/evac tone levels are ow	Adjust tones volume on rear of unit
No power to unit from AC mains.	Check fuse and replace with M205 type 500mA fuse if required. Check power to unit
Front volume control not functioning	Front volume control functions on aux input only. Check connections to rear of unit.
DIP switch changes not effective	Turn the unit OFF before changing DIP switch settings. Settings become effective after power is returned.
Voice over message not recording	Make sure the microphone used to record message has PTT function.

4.2 RJ45 cabling configuration for system components (586A 'Straight through')

System components are connected using "pin to pin" configuration RJ45 data cabling as shown in fig 4.2. When installing ensure all connections are verified with a LAN cable tester before switching any system component on.

Failure to follow the correct wiring configuration may result in damage to system components.

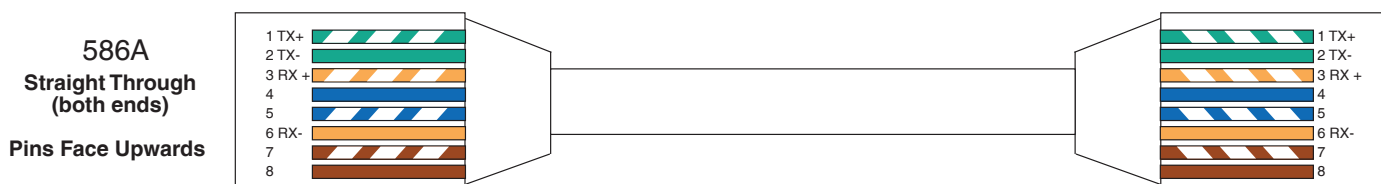


Fig 4.2

WARNING

System components are connected using standard "pin to pin" configuration RJ45 data cabling. When installing ensure all connections are verified before switching any system component on.

Failure to follow the correct wiring configuration may result in damage to system components.

For the correct wiring configuration, see section 6.0 "Troubleshooting".

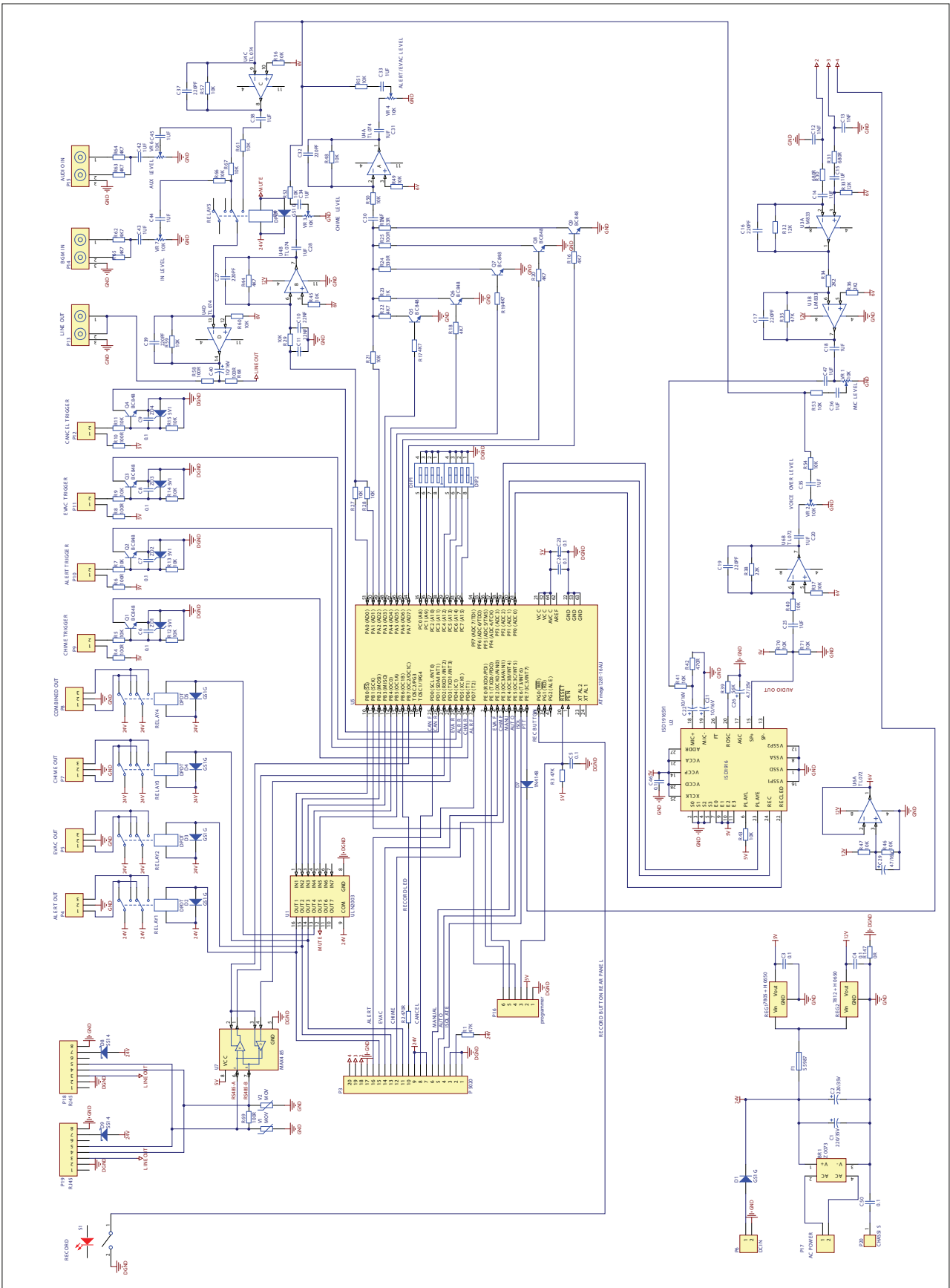
5.0 SPECIFICATIONS

OUTPUT LEVEL:	.....0dBm
DISTORTION:	.....0.01%
FREQ. RESPONSE:	.....140Hz - 20kHz
SIGNAL TO NOISE RATIO:	
Aux/Music Input:	.....-90dB typically
Alert/Evac/Chime:	.....-70dB typically
INPUT SENSITIVITY:	
Mic:	.....2mV Balanced
BGM/Aux Input:	.....300mV Unbalanced
OUTPUT CONNECTORS:	
Audio Output:	.....RCA Stereo Socket
Switched 24V DC Out:	.....Screw Terminals
Alert 24V DC Out :	.....Screw Terminals
Evac 24V DC Out:	.....Screw Terminals
Bell 24V DC Out:	.....Screw Terminals
PLEASE NOTE:	Maximum combined output load should not exceed 1Amp.
INPUT CONNECTORS:	
Mic:	.....5 pin XLR
Aux Input:	.....RCA Stereo Socket
24V DC Power:	.....Screw Terminals
240V AC Power:	.....IEC Chassis Socket
Remote Alert, Evac, Bell, Cancel:	.....Screw Terminals
MUTING:	.....Via Microphone Switch Contact
CONTROLS:	
Mic Input:	.....Rear Volume
BGM Input:	.....Rear Volume
Alert, Evac, Chime Tones:	.....Rear Volume
Voice over:	.....Rear Volume
Auxiliary Input:	.....Front Panel Volume
Power:	.....On/Off Switch
Mode Selection:	.....Keyswitch Keyed to 003 Standard
Alert Switch:	.....Illuminated Push Switch
Evac Switch:	.....Illuminated Push Switch
Bell / Chime Switch:	.....Illuminated Push Switch
Cancel Switch:	.....Push Switch
INDICATORS:	.....Power on, Record LED
POWER SUPPLY:	.....240V AC or 24V DC
DIMENSIONS:≈	.....482W x 125D x 44H
WEIGHT: ≈	.....2.2 kg
COLOUR:	.....Black

* Specifications subject to change without notice

6.0 CIRCUIT DIAGRAM

Shown below is the full circuit diagram of the A 4575B.



All Australian made Redback products are covered by a 10 year warranty.

Should a product become faulty please contact us to obtain a return authorisation number. Please ensure you have all the relevant documentation on hand. We do not accept unauthorised returns. Proof of purchase is required so please retain your invoice.

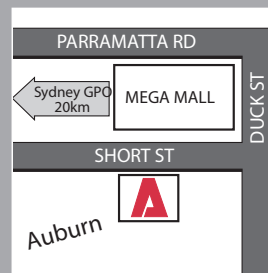
Ph: 1300 797 007 Fax: 1300 789 777

www.altronics.com.au

Sydney, NSW.

15 Short St, AUBURN,
NSW 2144

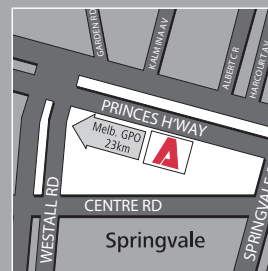
Open:
Mon-Fri 8.30am - 5.30pm
Sat 9.00am - 4.00pm



Melbourne, Vic.

891 Princes Hwy, SPRINGVALE
VIC 3171

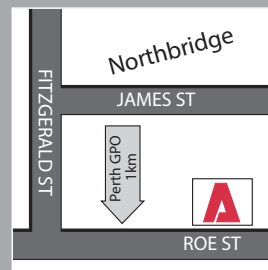
Open:
Mon-Fri 8.30am - 5.30pm
Sat 9.00am - 5.00pm
Sun 10.00am - 4.00pm



Perth, WA.

174 Roe St, PERTH, WA 6000

Open:
Mon-Wed, Fri 8.00am - 5.30pm
Thur 8.00am - 8.00pm
Sat 8.30am - 5.00pm
Sun 12.00pm - 5.00pm



Cannington, WA.

Unit 6, 1326 Albany Highway,
CANNINGTON, WA 6107

Open:
Mon-Wed, Fri 8.00am - 5.30pm
Thur 8.00am - 8.00pm
Sat 8.30am - 5.00pm



Balcatta, WA.

Unit 7, 58 Erindale Rd,
BALCATT, WA 6021

Open:
Mon-Fri 8.00am - 5.30pm
Sat 8.30am - 5.00pm
Sun 10.00am - 4.00pm



ACCESSORIES

Just some of Altronics products which compliment the A 4575B Alert/Evacuation Controller

C 0379 Desk Paging Microphone

This desk microphone has a tapered low frequency response for articulate speech reproduction and enhanced clarity. Fitted with a 2 metre lead and terminated with a 5 pin XLR which includes a PTT mute switching pair. The PTT switch features both momentary and lock-on positions.



C 0334 CB Type Balanced Microphone

Low impedance, 500 Ohm, omni-directional, dynamic microphone with curly cord fitted with a 5 pin XLR plug which includes a PTT mute switching pair.



S 5423 24V Low Power Fire Evac Strobe

Low current draw dual red and amber coloured strobe lights for emergency evacuation systems. Housed in a sturdy, white powder-coated steel case with conduit knockouts for cable entry. A terminal block allows quick power connection.



S 5430 24V 15W Red Strobe

S 5435 24V 15W Orange Strobe

24V DC strobe with 5 watt output. Uses Xenon tube for high energy flash with current draw of 250mA.



A 2260 10W PA Attenuator - Vertical

A 2262 10W PA Attenuator - Horizontal

Designed to control 100V line speaker systems. They feature 11 position switches for fine adjustment of sound level. They include an over-ride relay for emergency paging .



A 2265 40W PA Attenuator - Vertical

A 2267 40W PA Attenuator - Horizontal

Designed to control 100V line speaker systems. They feature 11 position switches for fine adjustment of sound level. They include an over-ride relay for emergency paging .

