REDBACK

AUSTRALIAN MADE®

Operating Manual

A 4500 Alert/Evacuation Controller and 50 Event Timer

Redback® Proudly Made In Australia

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.

REDBACK is a registered trademark of Altronic Distributors Pty Ltd

Since 1976 Redback amplifiers have been manufactured in Perth, Western Australia by Altronics. With close to 40 years experience in the commercial audio industry, we offer consultants, installers and end users reliable products of high build quality with local product support. We believe there is significant added value for customers when purchasing an Australian made Redback amplifier or PA product

Australian Made Status

All Redback house products made by Altronics will now be sporting the official Australian Made logo. Since starting manufacturing of commercial audio equipment in the mid 70's we have always taken pride in producing a quality local product.

The new adoption of the Australian Made logo will help us get the word out to local and export markets that our products carry the official compliance seal of the Australian Made campaign. We have always pushed our 'local is better' line in all of our marketing efforts, it's always an added boost when you are backed up by a widely recognised and respected icon.

Industry leading 10 year warranty.

There's a reason we have the industry leading DECADE warranty. It's because of a long tried and tested history of bulletproof reliability. We've heard PA contractors tell us they still see the original Redford amplifier still in service in schools - that's over 39 years of operation - and still going strong!

Contents

1.0 OVERVIEW

1.1 INTRODUCTION

This Timer and Evacuation 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. Alert & Evac switches on the front of the unit are fitted with safety covers to prevent accidental operation.

The Alert, Evacuation and Bell tones and cancel function are triggered by the front switches or by the rear terminal contacts for remote activation. Switched 24V Out connections are provided for Bell, Alert, Evac or a Common out. These contacts are for connection of override relays in remote volume controls, warning strobes, bells etc.

The unit is a very versatile timer which has a total of 50 station (event) switching times. Each event can be set to turn on any single day of the week or on multiple days, from 1 sec up to 24 hours. Switching events programmed for multiple days count as only a single event and each of the 50 event times may be set to any (but not multiple) output.

The timing events can be programmed to play an MP3 audio file, which is output through the dual RCA socket on the rear of the unit. The timing events can also be programmed to only trigger the Bell 24V out (and in turn the common 24V Out), with no audio output.

The timing events can be programmed through the buttons on the front of the unit, or via the software provided on the SD card. All timing events are saved to the SD card, as are all the tones which must be in MP3 format.

1.2 FEATURES

• Tones conform to AS 1670.4
• Standard 1U 19" rack mount case
• 24V DC operation
• Local operation of Alert, Evac and Bell.
• Voice over message
• Bell chime facility
• Switched 24VDC output for bell, Alert or Evac mode
• 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 4500 Alert/Evacuation Controller/24 Hr 7 Day Timer
24V 2A DC Plugpack
Instruction Booklet

1.4 FRONT PANEL GUIDE

Fig 1.4A shows the layout of the A 4500 front panel.

Fig 1.4A

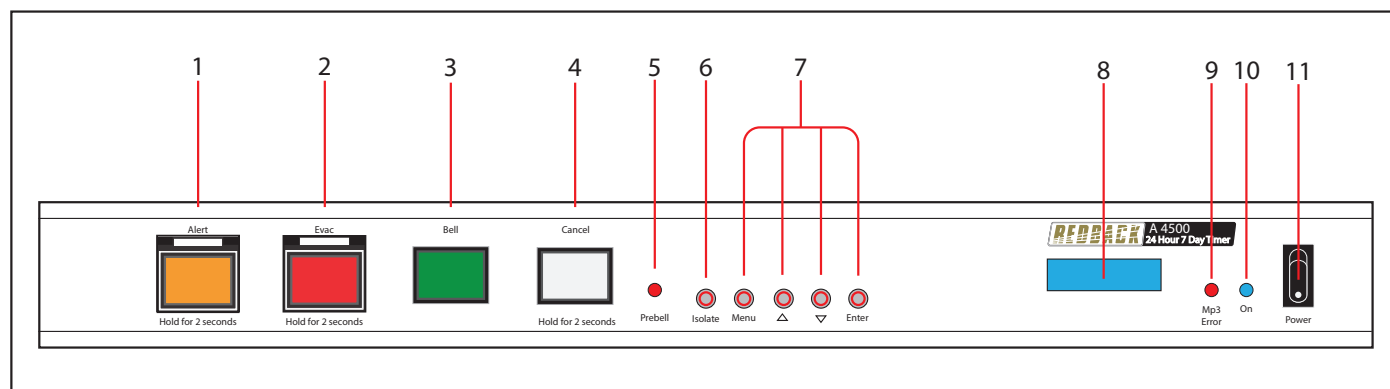**1**   **Alert Tone Activation Switch**
This switch is used to activate the Alert tone. This switch will only function when the unit is in manual mode (see section 2.1 for more details). It may need to be pressed for up to 2 seconds to activate.

2   **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.

3   **Bell Tone Activation Switch**
This switch is used to activate the Bell tone.

4   **Cancel Tone Activation Switch**
This switch is used to cancel the Alert, Evac or bell 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   **Prebell LED**
This LED indicates when the Prebell is active.

6   **Isolate Switch**
This switch is used to isolate the timing functions of the unit. Note: When this is enabled the Alert, Evac and Chime buttons and remote triggers will still function.

7   **Menu and Navigation Switches**
These switches are used to navigate the menu functions of the unit.

8   **LCD Display**
This displays the current time and other timing functions.

11   **MP3 Error Indicator**
This LED indicates the unit has a fault condition with the MP3 playback.

10   **On Indicator**
This LED indicates the unit has power.

11   **Power Switch**
Use this to turn the unit on.

1.5 REAR PANEL CONNECTIONS

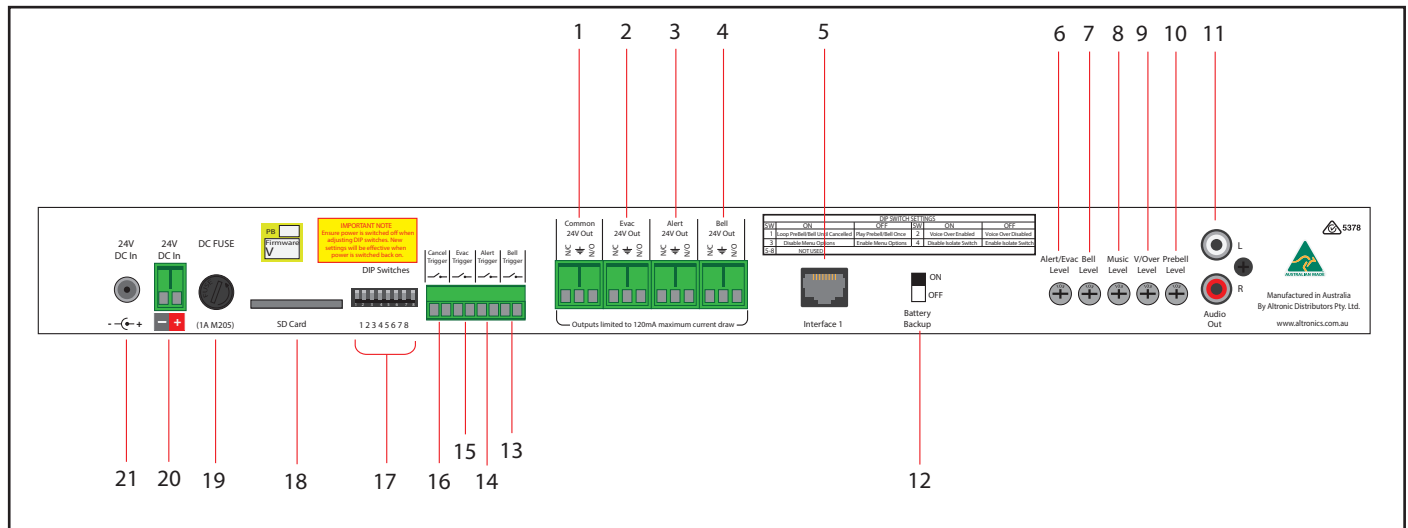Fig 1.5A shows the layout of the A 4500 rear panel.

Fig 1.5A

1   Common 24V Out
This is a common 24V DC output which is activated when any of the Prebell, Bell, Music, Alert or Evac tones are activated. The terminals provided can be used for "Normal" or "Failsafe" modes (see section 2.10 for more details).

2   Evac 24V Out
This is a 24V DC output which is activated when the Evac tone is activated. The terminals provided can be used for "Normal" or "Failsafe" modes (see section 2.10 for more details).

3   Alert 24V Out
This is a 24V DC output which is activated when the Alert tone is activated. The terminals provided can be used for "Normal" or "Failsafe" modes (see section 2.10 for more details).

4   Bell 24V Out
This is a 24V DC output which is activated when the Bell tone or relay only (No MP3 option) is activated. The terminals provided can be used for "Normal" or "Failsafe" modes (see section 2.10 for more details).

5   RJ45 interface
This RJ45 port is for connection to theA 4578 and A 4581 wall plates.

6   Alert/Evac Volume
Adjust this trimpot to adjust the Alert and Evacuation tones playback volume.

7   Bell Volume
Adjust this trimpot to adjust the Bell playback volume.

8   Music Volume
Adjust this trimpot to adjust the Music playback volume.

9   Voice-over Volume
Adjust this trimpot to adjust the message voice-over playback volume.

10   PreBell Volume
Adjust this trimpot to adjust the PreBell playback volume.

11   Audio Out RCA Connectors
Connect these outputs to the input of the background music amplifier.

12   Backup Battery Switch
Use this switch to activate the backup batterry. (Note: The backup battery only backs up the current time).

13   Bell Contact
These contacts are for remote triggering of the Bell tone. These could be triggered by a remote switch or other closing contact.

14   Alert Contact
These contacts are for remote triggering of the Alert tone. These could be triggered by a remote switch or other closing contact.

15   Evac Contact
These contacts are for remote triggering of the Evacuation tone. These could be triggered by a remote switch or other closing contact.

16   Cancel Contact
These contacts are for remote triggering of the cancel function. These could be triggered by a remote switch or other closing contact.

17   Dip Switches
These are used to select various options. Refer to DIP Switch Settings section.

18   SD Card
This is used to store the MP3 audio files for the Prebell, Bell, Alert, Evac and Music playback. It also stores the timing events for the timer. (More details in section 2.1).

19   DC fuse (1A M205)
This fuse protects the internal power supply. Replace with 1A rated fuse only.

20   24V DC Input (Backup)
Connects to a 24V DC backup supply with at least 1 amp current capacity. (Please observe the polarity)

21   24V DC input
Connects to a 24V DC Plugpack with 2.1mm Jack.

2.0 SETUP GUIDE

2.1 INITIAL SETUP

For the unit to function correctly, the supplied SD card must be installed and have MP3 files in each of the associated folders as shown in Fig 2.1.
NOTE: The unit will display an MP3 error message on the screen if any of the folders on the SD card are left empty. I.e. the Alert, Bell, Evac, Music, Prebell and Voice folders must all have an MP3 file inside.

The SD card should have the following folders already installed "Alert, Bell, Evac, Music, Prebell and Voice". If these folders don't exist they will have to be created.
Inside each of these folders there will be a sample MP3 audio file. The alert and evac MP3 files meet the Australian standard for evacuation tones. A library of sample MP3 files is supplied (in the #LIBRARY# folder).

In order to put MP3 files onto the card, or move the sample MP3's to their relevant folders, the SD card will need to be connected to a PC. You will need a PC or laptop equipped with an SD card reader to do this. If an SD slot is not available then the Altronics D 0371A USB Memory Card Reader or similar would be suitable (not supplied).

You will first need to remove power from the A 4500 and then remove the SD card from the rear of the unit.
To remove the SD card push the card in and it will eject itself.

Step by step guide to put an MP3 into it's associated folder with a Windows installed PC.

Step 1: Make sure the PC is on and card reader connected and correctly installed. Then insert the SD card into the reader.

Step 2: Go to "My Computer" or "This PC" and open the SD card which is usually marked "Removable disk".
In this case it is named "Removable disk (F:)". Select the removable disk and then you should get a window that looks like figure 2.1.

Fig 2.1
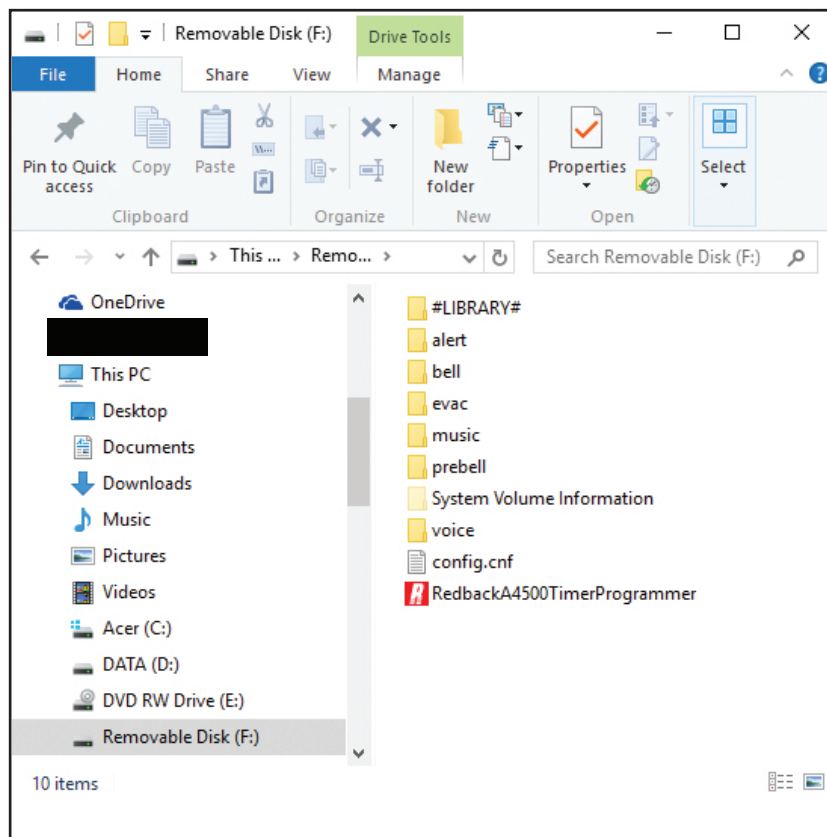
Step 3: Open the folder to change, in our example the "bell" folder, and you should get a window that looks like figure 2.2.
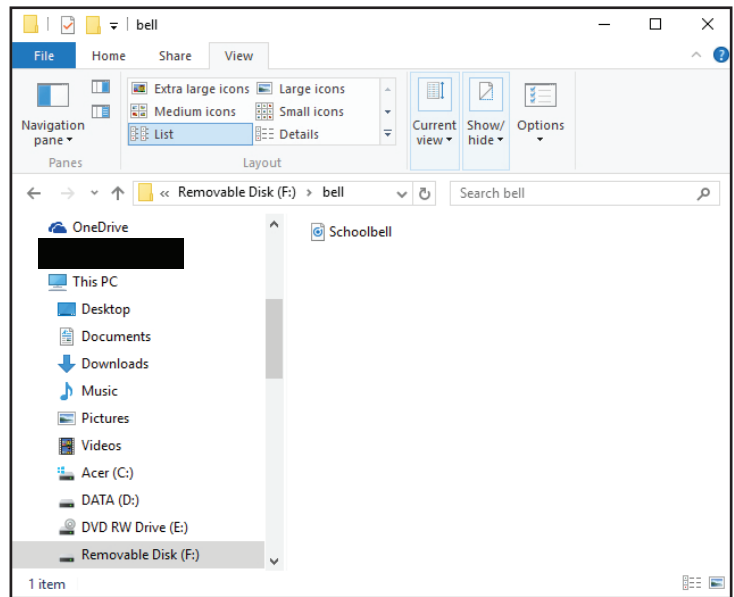

Fig 2.2

Step 4: You should see an MP3 file "Schoolbell.mp3".
This MP3 file needs to be deleted and replaced by the MP3 file you want to play when you activate the bell. The MP3 file name is not important only that there is one MP3 file in the "bell" folder. Make sure you delete the old MP3!

NOTE the new MP3 file cannot be "Read only". To check this right click on the MP3 file and scroll down and select Properties, you will get a window that looks like figure 2.3. Make sure the "Read Only" box has no tick in it.

Repeat these steps for the other folders.

The new MP3's are now installed on the SD card, and the card can be removed from the PC following windows safe card removal procedures. Make sure the A 4500 is OFF and insert the SD card into the slot in the rear; it will click when fully inserted.

The A 4500 can now be switched back On. If all the MP3 files are OK then the unit will display the time screen. If an MP3 error message is is displayed, there is a problem with one or more of the MP3 files.
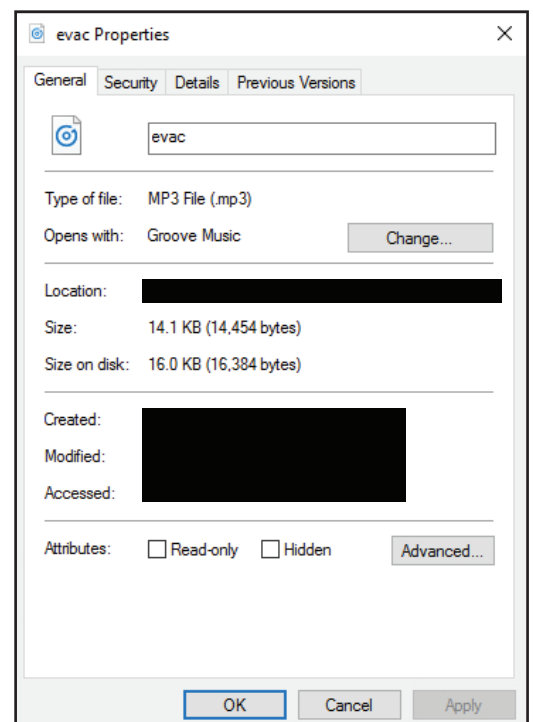

Fig 2.3

2.2 ALERT, EVAC AND BELL SWITCHES

The Alert, Evac and Bell switches on the front of the unit all work in momentary mode. ie. The alert tone will continue to sound after the alert switch is momentarily pressed and the evac tone will continue to sound after the evac switch is momentarily pressed. There is no automatic alert to evac switch-over option associated with the front panel switches.

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

Note 2: To cancel a tone either use the remote cancel contacts or the front cancel button. Note the cancel button will need to be depressed for 2 seconds. This is to prevent accidental cancelling of a tone.

The Alert, Evac and Bell tones are stored on the supplied SD card. Separate folders are supplied on the SD card for each tone. It is up to the user to provide the MP3 files (they must be in MP3 format) for each of the tones. A library of sample MP3 files is supplied (in the #LIBRARY# folder). See section 2.1 for more details.

NOTE: The unit will display an MP3 error message on the screen if any of the folders on the SD card are left empty. I.e. the Alert, Bell, Evac, Music, Prebell and Voice folders must all have an MP3 file inside.

Once these Alert, Evac and Bell outputs are activated, the corresponding 24V switched outputs will become active (refer to section 2.6 for more details)

2.3 PROGRAMMING THE TIMING EVENTS USING THE FRONT BUTTONS

If the unit starts up correctly and no error messages are displayed, the model number will be displayed briefly before the current time is shown. See Fig 2.4.
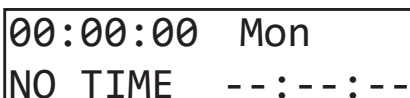
Fig 2.4

```
Altronics A 4500
EVACUATION TIMER
```

If this screen doesn't appear and instead an MP3 error message is displayed, then either the SD card is not inserted correctly or there is a missing MP3 file.

NOTE: The unit will display an MP3 error message on the screen if any of the folders on the SD card are left empty. I.e. the Alert, Bell, Evac, Music, Prebell and Voice folders must all have an MP3 file inside.

The main screen (Current Time Screen) shown in Fig 2.5 displays the current time and day, and the next programmed event.

Fig 2.5

```
00:00:00  Mon
NO TIME   --:--:--
```

When this screen is displayed the unit is running in "AUTO MODE" and therefore all outputs will work as programmed. However if the unit is in any of the sub menu's (Menu Mode) the unit will no longer respond to any event that has been programmed to occur. On exiting the menu, the timer will check all programmed events and update the status of the output zones.

In order to set up the timer, the station (or event) times will need to be programmed. This can be acheived by using the buttons on the front of the unit or via the PC software (supplied on the SD card) see section 2.4 for more details.
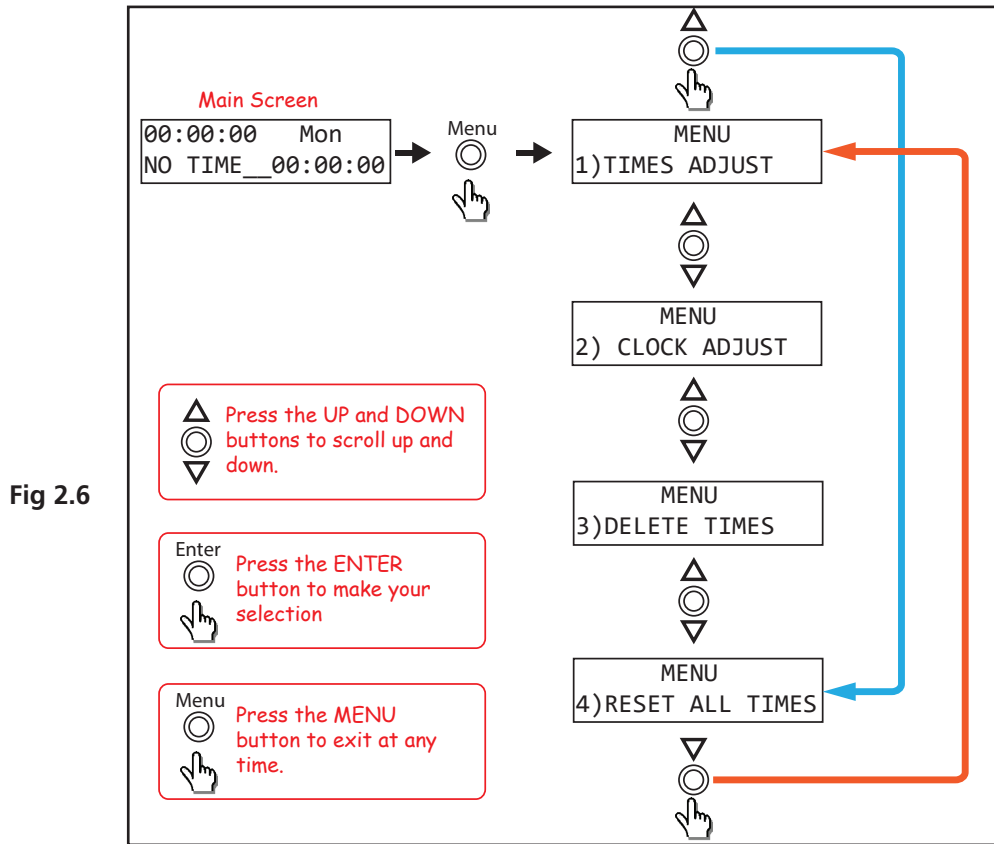
PROGRAMMING THE TIMING EVENTS USING THE FRONT BUTTONS

There are five buttons on the front of the timer which are used to program the unit and navigate the various menus.

SPECIAL NOTE ABOUT "AUTO MODE" OPERATION
If the timer is not displaying the main clock screen, where the time is changing, the unit is not running in "Auto Mode". This means it will not be checking any of the programmed events and hence will not activate any outputs automatically.
Essentially this means that as soon as the Menu button is pressed the unit is no longer in "Auto Mode".
Make sure to return to the main screen by exiting all menu's when not making changes.

Press the "Menu" button on the front of the timer. The unit is now in "Menu Mode" and the screen should display the "Times Adjust" Screen. This is the first of 4 sub menu screens which are navigated by pressing the up and down buttons as shown in Fig 3.1. Pressing the Menu button again will exit the menu structure and return the user to the Main Screen.

Fig 2.6

Main Screen

```
00:00:00   Mon
NO TIME__00:00:00
```

Menu

```
     MENU
1)TIMES ADJUST
```

△ Press the UP and DOWN
○ buttons to scroll up and
▽ down.

Enter Press the ENTER
○ button to make your
selection

Menu Press the MENU
○ button to exit at any
time.

```
     MENU
2) CLOCK ADJUST
```

```
     MENU
3)DELETE TIMES
```

```
     MENU
4)RESET ALL TIMES
```

Select the desired sub menu by pressing the "Enter" button.

There are 4 options to choose from.
1) Times Ajdust
2) Clock Adjust
3) Delete Times
4) Reset All Times

2.3.1 Times Adjust
After selecting this option, the screen as shown in Fig 2.7 should appear.

Fig 2.7

```
TIME1      DISABLED
00:00:00     EDIT?
```

This option allows the user to enter the Station (Event) information which includes the event "Turn on time", "Period" and "Output MP3".
The top left text is the time event number. Up to 50 events can be programmed into the A 4500. Pressing the "up" and "down" buttons at this stage will move up and down through the events 1- 50. The top right text indicates that TIME1 (Event1) is currently disabled. The bottom left text refers to the time this event will happen (i.e. the "Start" Time).
Press the "Enter" button to edit this event, or press the "Menu" button to exit.
Pressing the Enter button will take you to the "Editing Time" screen (Refer to fig 2.8). This is where the event "Start" time is entered. The cursor will be positioned over the hour section of the time. Use the up and down buttons to change the

Fig 2.8

```
EDITING     TIME1
START 00:00:00
```

hour and then press the "Enter Button" to confirm the hour. The cursor will move to the minutes section of the time. Use the up and down buttons to change the minutes and then repeat the process again for the seconds. Once the seconds have been updated the screen will change to the "Period" set screen (Refer to fig 2.9) . This is where the length of time the event should occur, is recorded.

Fig 2.9
```
EDITING      TIME1
PERIOD    00:00:00
```

Once again, use the up and down buttons to set the hour, minutes and seconds and press enter when finished. Once the period has been set, the desired output MP3 for this event is to be set using the MP3 output screen (See fig 2.10).

Fig 2.10
```
EDITING      TIME1
MP3----   PREBELL
```

The MP3 output defaults to Prebell. Scroll through the other options by using the up and down buttons. The MP3 output can be set to Prebell, Bell, Music, No MP3 or the output can be disabled. These MP3 outputs correspond to the MP3 audio files located in the Prebell, Bell and Music folders on the SD card.

RELAY OUTPUT CONFIGURATION
The 24V switched outputs associated with the Prebell, Bell and Music folders are as follows.
When the Bell output is active the Bell 24V output and Common 24V output will become active.
When the Prebell and Music outputs are active the the Common 24V output only will become active.
The NO MP3 option will activate the Bell and Common 24V output, but no audio file will be played.

Once the desired output for the event has been set, press the enter button to move to the next screen (See fig 2.11). This is where the days of the week this event will occur are entered. The top right line of text refers to the days of the week, Monday through to Sunday. The line of text below this sets each day "ON" or "OFF". Use the up and down buttons to set the day to Y for "ON" and N for "OFF".

Fig 2.11
```
DAYS-     MTWTFSS
          NNNNNNN
```

Once the days of the week are set, press the enter button to confirm and be returned to the main menu. Repeat this process for any other events to be programmed.
This process of entering the events can be quite time consuming. An easier method of entering this information is by using the supplied PC software which is provided on the SD card (see section 2.4).

2.4 PROGRAMMING THE TIMING EVENTS USING THE SUPPLIED PC SOFTWARE

The PC software is provided on the units' SD Card and is called "RedbackA4500TimerProgrammer".

In order to access the program, the SD card will need to be connected to a PC. You will need a PC or laptop equipped with an SD card reader to do this. If an SD slot is not available then the Altronics D 0371A USB Memory Card Reader or similar would be suitable (not supplied).

You will first need to remove power from the A 4500 and then remove the SD card from the rear of the unit.
To remove the SD card push the card in and it will eject itself.

Make sure the PC is on and card reader connected and correctly installed. Then insert the SD card into the reader.

Go to "My Computer" or "This PC" and open the SD card which is usually marked "Removable disk".
In this case it is named "Removable disk (F:)". Select the removable disk and then you should get a window that looks like figure 2.12.

Fig 2.12
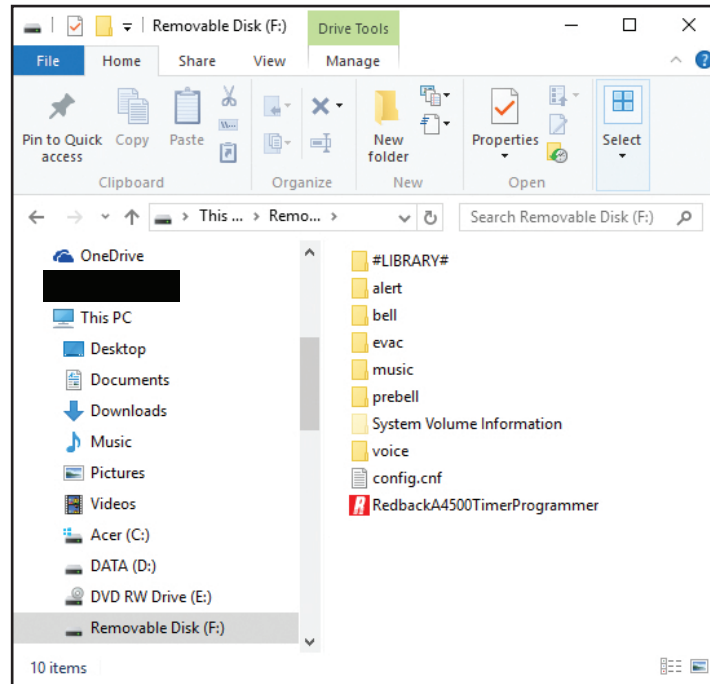
The program can be run on the SD card or it could be copied to the PC desktop or another folder and run from there. Double click on the file - RedbackA4500TimerProgrammer. The programming screen should appear as shown in fig 2.13. All 50 events can be accessed on the screen by scrolling up and down. If you previously saved some timing information
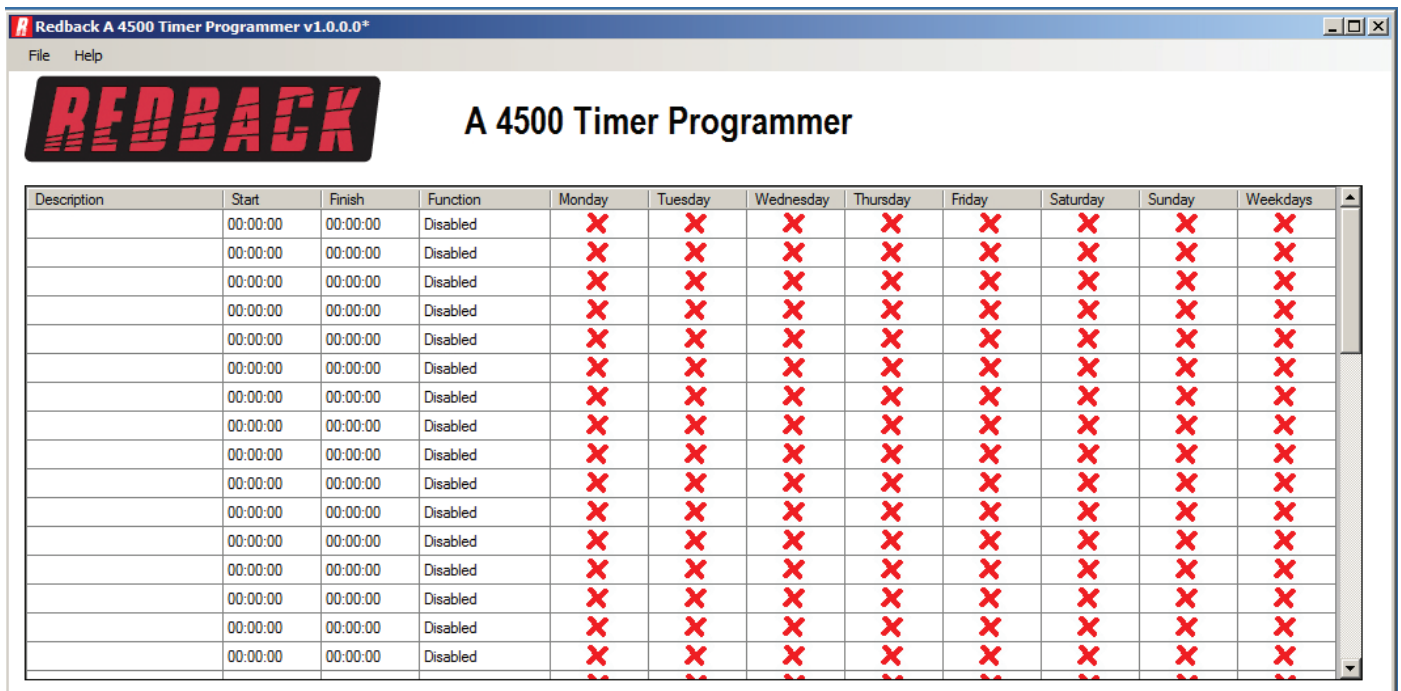

Fig 2.13

using the buttons on the A 4500 then these times should be displayed. Otherwise the timing information should all be blank as shown. The information is saved in a file labelled "config.cnf". This file should already be supplied on the SD card and should be blank as shown.

Entering the timing events is very straight forward.
Double click on any line and a new window should pop up as shown in fig 2.14, which has the event details outlined.
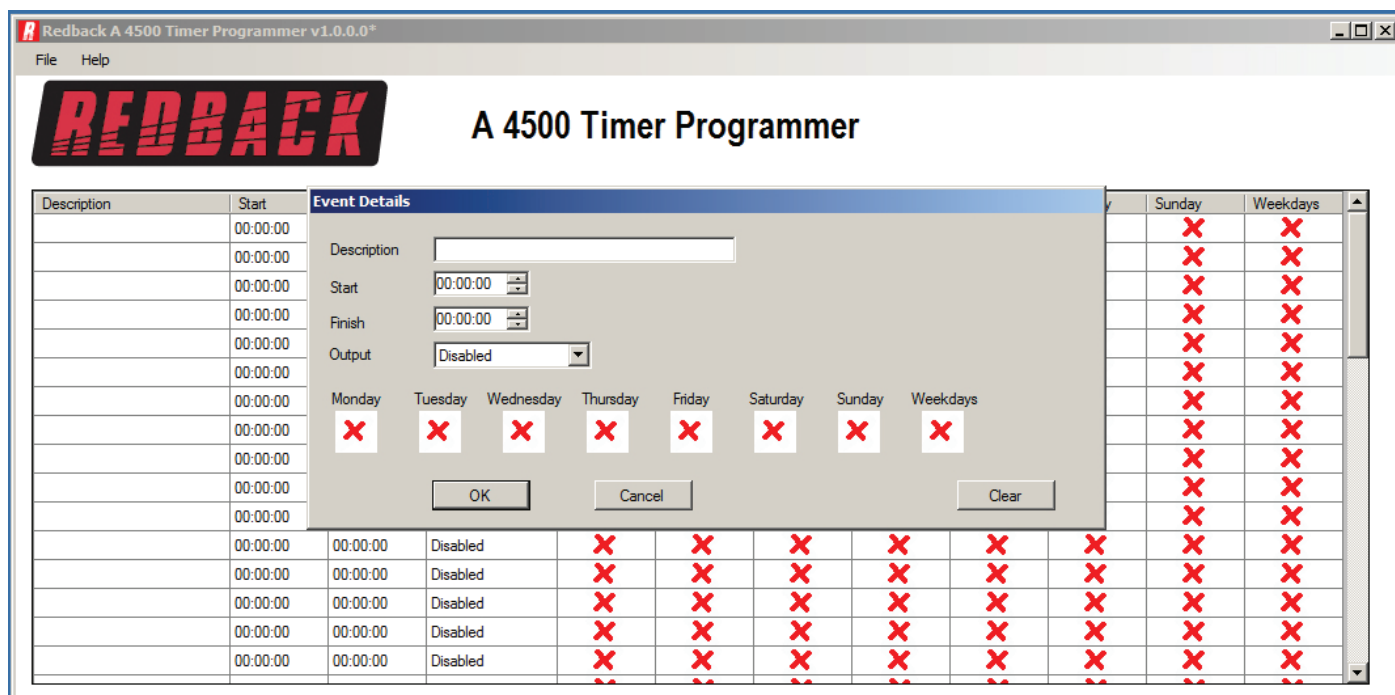
Fig 2.14

An event can now be programmed from this window. A description of the event can be added if desired (such as Pre bell, Morning Tea etc), the start time, finish time and the output can all be entered. Selecting the days of the week is as simple as clicking the desired days or selecting the weekdays box, if all weekdays are required.

Figure 2.14 shown below illustrates an example. This event is the prebell for a primary school and is programmed to activate 5 minutes before the first bell of the day. A music track will be played at 8:55:00 and continue to play until 08:59:59. Once the event programming has been finalised, press the OK button.
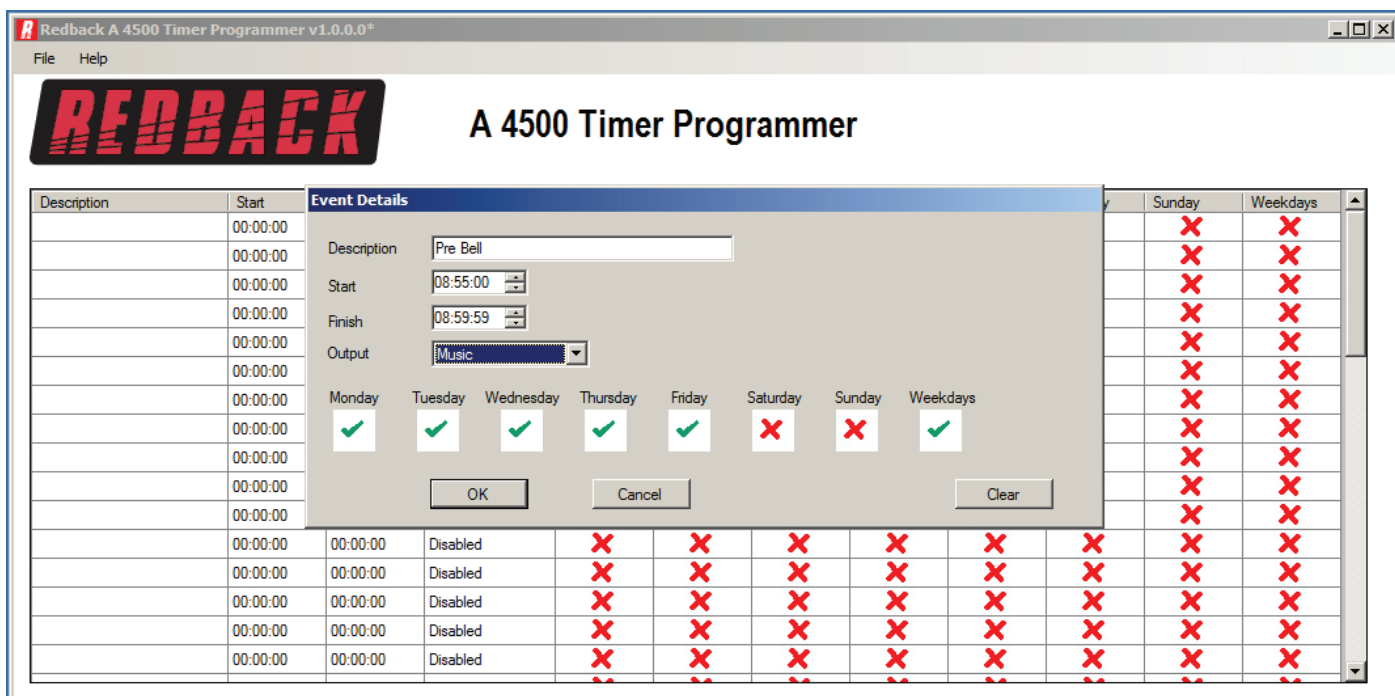
Fig 2.15

The event should now appear in the programming window as shown in fig 2.16.

Fig 2.16

Another event is now added by following the same steps. Double click on a blank line and then enter the details required as illustrated in fig 2.17. This is the first bell of the day for the primary school, the A 4500 is being installed at.

Fig 2.17

Press the OK button and the second event now appears in the programming screen as shown in fig 2.18.

Fig 2.18

As the events are added they will be listed in chronological order. (I.e. In time order). If a new event was programmed, to start at 08:45:00 for instance, this new event would appear before the prebell event.
Continue to enter the events in this manner and then save the program by clicking file and then save as. The file must be saved as config.cnf on the SD card in place of the file already on the SD card.

With the events now programmed on the SD card, the card can be removed from the PC following windows safe card removal procedures. Make sure the A 4500 is OFF and insert the SD card into the slot in the rear; it will click when fully inserted.

The A 4500 can now be switched back On. If all is well, after the startup screen is displayed the current time and next event should be displayed on the screen.

2.5 SETTING THE CURRENT TIME

Press the "Menu" button on the front of the timer. The unit is now in "Menu Mode" and the screen should display the "Times Adjust" Screen. This is the first of 4 sub menu screens which are navigated by pressing the up and down buttons as shown in Fig 2.19. Pressing the Menu button again will exit the menu structure and return the user to the Main Screen.

Select the CLOCK ADJUST sub menu.

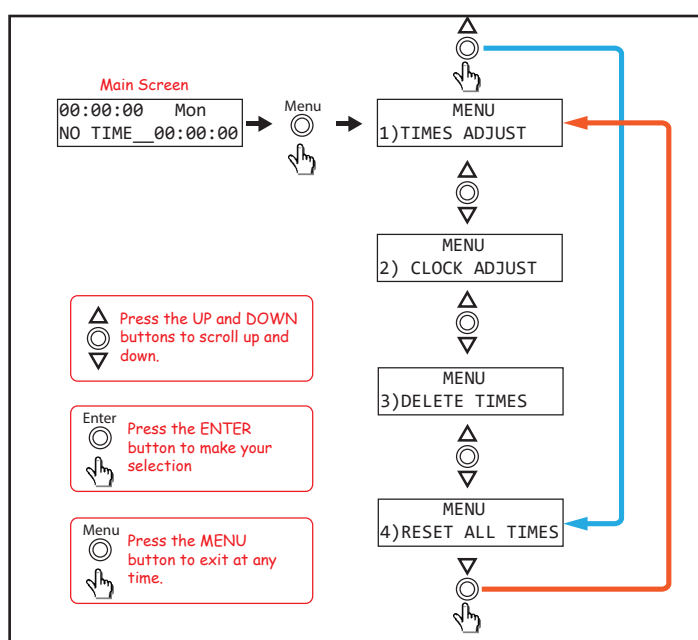After selecting this option, the screen as shown in Fig 2.20 should appear.

Fig 2.19

Fig 2.20

```
EDITING CLOCK
00:00:00    Mon
```

The cursor will be positioned over the hour section of the time. Use the up and down buttons to change the hour and then press the "Enter Button" to confirm the hour. The cursor will move to the minutes section of the time. Use the up and down buttons to change the minutes and then repeat the process again for the seconds. Once the seconds have been updated the cursor will move to the day of the week. Use the up and down buttons again to change the day and then press enter to confirm. The time is now set.

2.6 DELETING A PROGRAMMED TIME

Press the "Menu" button on the front of the timer. The unit is now in "Menu Mode" and the screen should display the "Times Adjust" Screen. This is the first of 4 sub menu screens which are navigated by pressing the up and down buttons as shown in Fig 2.19. Pressing the Menu button again will exit the menu structure and return the user to the Main Screen.

Select the DELETE TIMES sub menu.

After selecting this option, the screen as shown in Fig 2.22 should appear.

Fig 2.22

```
TIME1      PREBELL
07:55:00   DELETE?
```

From this point the "Up" and "Down" buttons can be used to scroll through the different times, or press the "Enter" button to delete this time. After deleting the time, a message will indicate that the time has been cleared and the next time will then be displayed on the screen. Press "Enter" to delete, "Menu" to exit or the "Up" and "Down" buttons to scroll to another time.

A time can also be deleted using the PC software.
See section 2.4 for instructions regarding accessing the event programming. A time can be removed by double clicking on the required programmed line and then pressing the "CLEAR" button.

2.7 RESET ALL PROGRAMMED TIMES

Press the "Menu" button on the front of the timer. The unit is now in "Menu Mode" and the screen should display the "Times Adjust" Screen. This is the first of 4 sub menu screens which are navigated by pressing the up and down buttons as shown in Fig 2.19. Pressing the Menu button again will exit the menu structure and return the user to the Main Screen.

Select the RESET ALL TIMES sub menu.

After selecting this option, the screen as shown in Fig 2.23 should appear.

Fig 2.23

```
RESET ALL TIMES
UP=YES / DN = NO
```

Press the "UP" button to reset all the times programmed and stored on the SD card. Press the "No" button to exit without resetting the times.

2.8 AUDIO CONNECTIONS

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.

Rear Panel Volume Controls:
The output levels of the Alert/Evac, Prebell, Bell, Music and Voice Over tones can all be adjusted via trimpots located on the rear of the unit.

2.9 DIP SWITCH SETTINGS

The A 4500 has some options which are set by the DIP switches on the rear of the unit. These are outlined below and in figure 2.24.

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

Switch 1
This switch is used to either loop the Bell/Prebell, or play the Bell/Prebell only once after it has been triggered.
ON = Loop, OFF = Play Once

Switch 2
DIP switch 2 enables or disables the voice over message. The voice-over message is played in between every three cycles of the evac tone.
ON = Enabled, OFF = Disabled

Switch 3
This switch can be used to lockout the menu button, to deter tampering with the programmed times.
ON = Menu button disabled, OFF = Menu button enabled

Switch
This switch can be used to lockout the front isolate button.
ON = Isolate button disabled, OFF = Isolate button enabled

Switch 5-8 Not Used.

DIP SWITCH SETTINGS					
SW	ON	OFF	SW	ON	OFF
1	Loop PreBell/Bell Until Cancelled	Play Prebell/Bell Once	2	Voice Over Enabled	Voice Over Disabled
3	Disable Menu Options	Enable Menu Options	4	Disable Isolate Switch	Enable Isolate Switch
5-8	NOT USED				

Fig 2.24

2.10 24V OUTPUT CONNECTIONS

These contacts can be used for connection of override relays in remote volume controls, or strobes for unusually noisy environments. 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).

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, or override relays in remote volume controls.
When this output becomes active, 24V will appear between the N/O contact and the GND contact. When this output is not active 24V will appear between the N/C contact and the GND.

Bell 24V Out:
These contacts are for switched 24V outputs whenever the Bell or Relay Only (No MP3 option) are activated These contacts are for operating an external relay used to operate something like a lunch bell etc.
When this output becomes active, 24V will appear between the N/O contact and the GND contact. When this output is not active 24V will appear between the N/C contact and the GND.

Common 24V Out:
These contacts are for switched 24V outputs whenever the Alert, Evac, Bell, Prebell or Relay Only (No MP3 option) tones are activated. When this output becomes active, 24V will appear between the N/O contact and the GND contact. When this output is not active 24V will appear between the N/C contact and the GND.

3.0 REMOTE WALL PLATES

3.1 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 4500 via standard Cat5e cabling as shown in Fig 3.2. 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 4500 main unit the LED on the wall plate will flash.

Only one A 4578 or A 4581 wall plate is allowed to be connected to the A 4500.
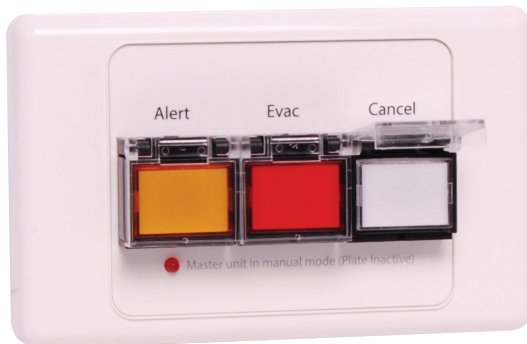
Fig 3.1
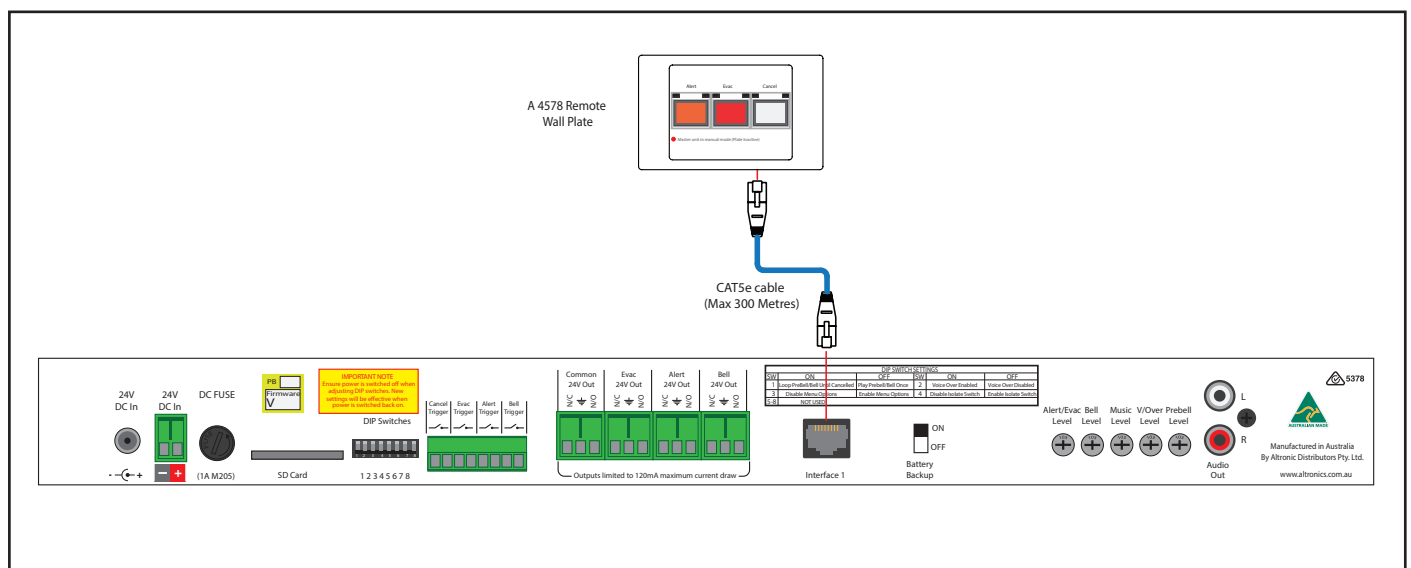
Fig 3.2

3.2 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 4500 via standard Cat5e cabling as shown in Fig 3.4. 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 4500 main unit the LED on the wall plate will flash.
Only one A 4578 or A 4581 wall plate is allowed to be connected to the A 4500.
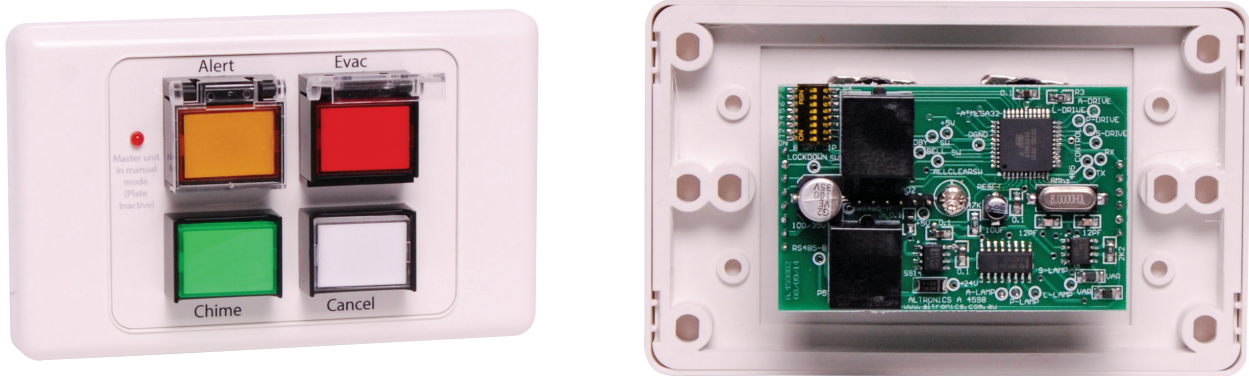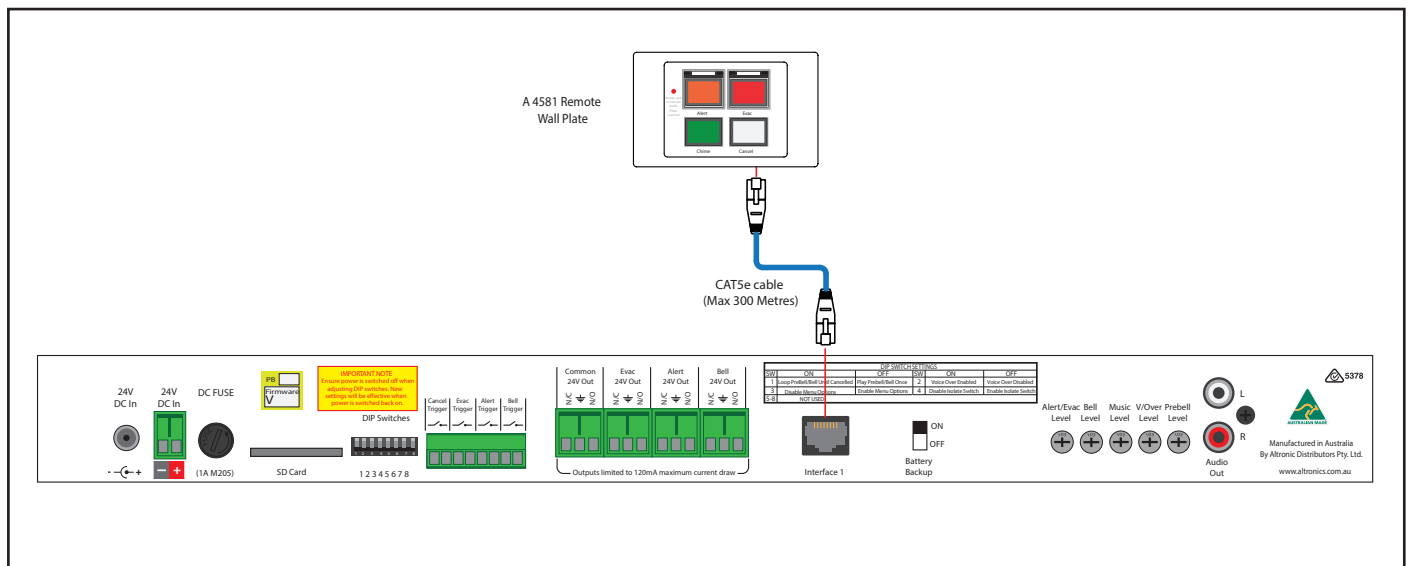

Fig 3.3

Fig 3.4

4.0 TROUBLE SHOOTING

4.1 SYMPTOMS AND REMEDIES

SYMPTOMS	REMEDIES
(SD CARD ERROR1-CHECK SD CARD MESSAGE DISPLAYED)	CHECK SD CARD HAS BEEN INSERTED CORRECTLY

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.

586A
**Straight Through
(both ends)**

Pins Face Upwards

1 TX+
2 TX-
3 RX +
4
5
6 RX-
7
8

1 TX+
2 TX-
3 RX +
4
5
6 RX-
7
8

Fig 4.2

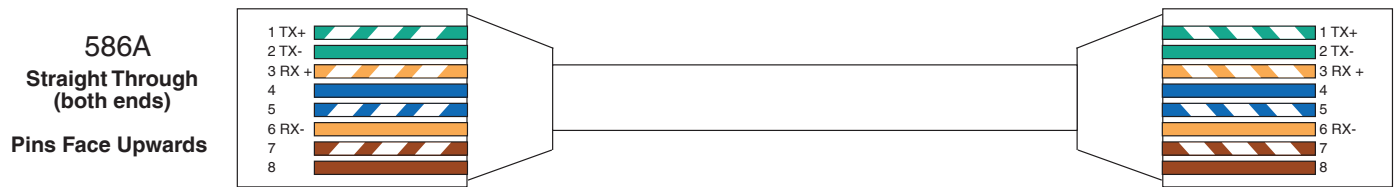> **WARNING**
> **System components are connected using standard "pin to pin" configuration RJ45 data cabling. When installing ensure all connections are verified before switching any system component on.**
>
> **Failure to follow the correct wiring configuration may result in damage to system components.**
>
> **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:
      Alert/Evac/Chime:...............................-70dB typically

OUTPUT CONNECTORS:
      Audio Output:.............................RCA Stereo Socket
      Common 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: Output loads limited 0.12Amp each

INPUT CONNECTORS:
      24V DC Power:...............................Screw Terminals
      24V DC Power:...............................2.1mm DC Jack
      Remote Alert, Evac, Bell, Cancel:......Screw Terminals
MUTING:...........................Via Microphone Switch Contact
CONTROLS:
      Alert/Evac:...Rear Volume
      Voice over:...Rear Volume
      Bell:...Rear Volume
      Prebell:...Rear Volume
      Music:..Rear Volume

      Power:...On/Off Switch
      Alert Switch:.......................Illuminated Push Switch
      Evac Switch:........................Illuminated Push Switch
      Bell Switch:........................Illuminated Push Switch
      Cancel Switch:.....................................Push Switch
INDICATORS:.........................Power on, MP3 error, Prebell
POWER SUPPLY:.. 24V DC
DIMENSIONS:≈................................. 482W x 125D x 44H
WEIGHT: ≈.. 2.2 kg
COLOUR: ....Black

  * Specifications subject to change without notice

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

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Sat 9.00am - 4.00pm
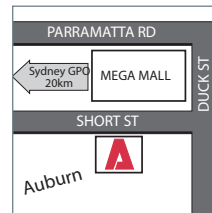
Melbourne, Vic.

891 Princes Hwy, SPRINGVALE, VIC 3171

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

Brisbane, Qld.

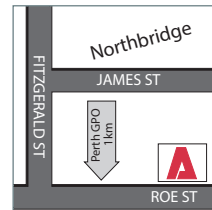Unit 2, 1870 Sandgate Rd, VIRGINIA, QLD 4014

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

Perth, WA.
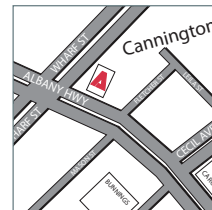
174 Roe St, PERTH, WA 6000

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, BALCATTA, WA 6021

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