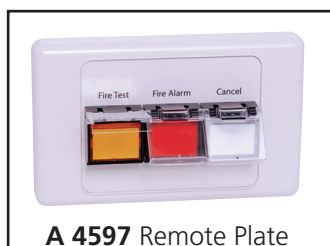


Optional Accessories



A 4596 Paging Console



A 4597 Remote Plate



A 4598 Remote Plate



A 4598V Remote Plate

Operating Manual

A 4595A School Lockdown Controller

A 4596 Paging Console

A 4597 Fire Test Remote Wallplate

A 4598 Lockdown Remote Wallplate (Horizontal)

A 4598V Lockdown Remote Wallplate (Vertical)

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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.

Please check www.redbackaudio.com.au for the latest revisions of instruction manuals.

User manual revision number: 1.0 06/05/2020



Since 1976 Redback amplifiers have been manufactured in Perth, Western Australia. With over 44 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 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 44 years of operation - and still going strong!

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.

CONTENTS

1.0 Overview

1.1 Introduction	4
1.2 Features	4
1.3 What's in the box	4
1.4 Front panel guide	5
1.5 Rear panel connections	6

2.0 Operation

2.1 Lockdown Modes	8
2.2 Fire Test/Fire Alarm	8
2.3 Prebell/Bell	8
2.4 Auxilliary MP3 Triggers	8
2.5 Priorities	9

3.0 Setup Guide

3.1 Power Connections	9
3.2 Audio Connections	10
3.3 24V Output Connections	10
3.4 Micro SD card (MP3)	12
3.5 Connecting to the A 4565	15
3.6 Connecting to the A 4565 and the A 4585	16
3.7 Dip Switch Settings	16

4.0 Paging Consoles

4.1 A 4596 Paging Console Overview	17
4.2 A 4598 and A 4598V Overview	20
4.3 A 4597 Overview	22

5.0 Troubleshooting

5.1 Symptoms and Remedies	23
5.2 RJ45 Cabling Configuration	23

6.0 Specifications	24
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1.0 OVERVIEW

1.1 INTRODUCTION

This lockdown controller complements the A 4565 Alert/Evac controller and is primarily aimed at schools which require a lockdown warning facility. The controller has provision for a Pre-Bell and a Period Bell which are activated by the closing contact triggers on the rear of the unit. Standby, Lock In, Lock Out and All Clear tones can be activated by the switches on the front of the controller, or by the optional wall plates (A 4598) or paging consoles (A 4596).

The unit is powered from a 24V dc source (power supply included) and separate 24V dc switched outputs are supplied for remote triggering (of sirens/strobes etc) for all tone conditions (Bell/Pre-bell, Standby, Lock In, Lock Out and All Clear). There is also an Emergency 24V out which is activated on Standby, Lock In, Lock Out and All Clear conditions and when emergency paging is active. A Common 24V Out is activated by any tone condition or by any paging state. Connections to the paging consoles and wall plates are made via Cat5e cabling.

The audio output is typical 1V rms line level and is adjustable via a trimpot adjustment on the rear of the unit.

The lockdown unit can be connected to the A 4565 alert/evac controller if an EWIS system is also required and is made with a dual RCA lead . The A 4565 will take priority over the A 4595A lockdown unit in the case of an emergency.

1.2 FEATURES

- Standard 1U 19" rack mount case
- Front panel activation of Standby, Lock In, Lock Out and All Clear Modes
- Remote operation of Prebell & Bell tones
- Remote operation of three optional triggers
- SD card storage of audio files
- 24V DC operation
- Switched 24V DC output for Prebell, Bell, Standby, LockIn, LockOut & All Clear Triggers
- 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 4595A Alert/Evacuation Controller
24V 2amp Power supply
Instruction Booklet
Micro SD Card

1.4 FRONT PANEL GUIDE

Fig 1.4A shows the layout of the A 4595A front panel.

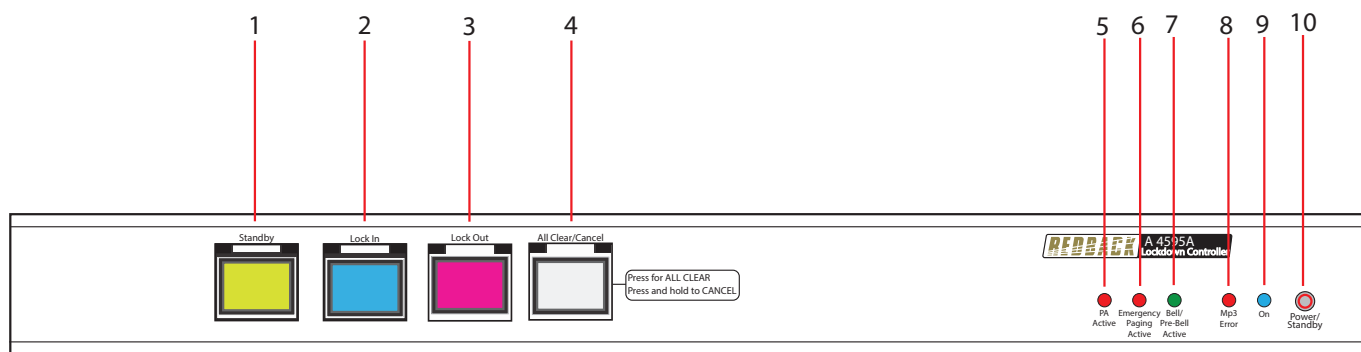


Fig 1.4A

- 1 Standby Tone Activation Switch**
This switch is used to activate the Standby Mode.
- 2 Lock In Tone Activation Switch**
This switch is used to activate the Lock In Mode.
- 3 Lock Out Tone Activation Switch**
This switch is used to activate the Lock Out Mode.
- 4 All Clear Tone/Cancel Activation Switch**
This switch is used to activate the All Clear Mode and to cancel any currently playing tone.
- 5 PA Active Indicator**
This led will illuminate when the A 4596 paging microphone is active.
- 6 Emergency Paging Active Indicator**
This led will illuminate when the Emergency paging on the A 4596 paging microphone is active.
- 7 Bell/Pre Bell Indicator**
This led indicates that the Bell or Pre-Bell has been activated.
- 8 MP3 Error Indicator**
This led indicates that an error has occurred with the internal MP3 player.
- 9 On Indicator**
This led indicates the unit has power.
- 10 Power/Standby Switch**
When the unit is in standby mode this switch will illuminate. Press this button to switch the unit ON. Once the unit is ON the On indicator will illuminate. Press this switch again to put the unit back in standby mode.

Redback® A 4595A School Lockdown Controller

1.5 REAR PANEL CONNECTIONS

Fig 1.5A shows the layout of the A 4595A rear panel.

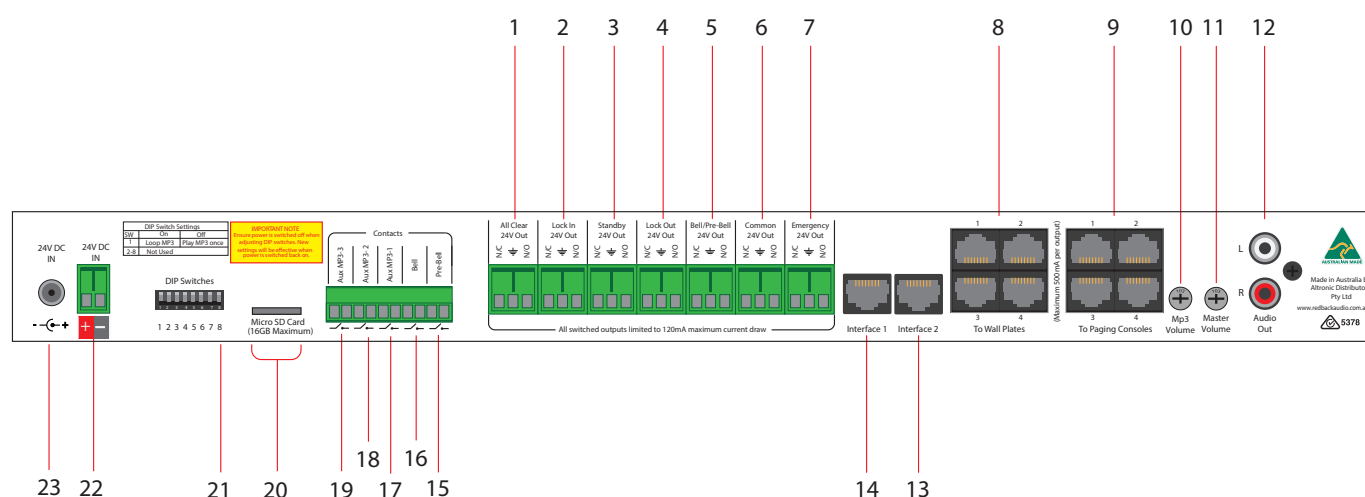


Fig 1.5A

1 All Clear 24V Out

This is a 24V DC output which is activated when the All Clear Mode is triggered. The terminals provided can be used for “Normal” or “Failsafe” modes (see section 3.5 for more details).

2 Lock In 24V Out

This is a 24V DC output which is activated when the Lock In Mode is triggered. The terminals provided can be used for “Normal” or “Failsafe” modes (see section 3.5 for more details).

3 Standby 24V Out

This is a 24V DC output which is activated when the Standby Mode is triggered. The terminals provided can be used for “Normal” or “Failsafe” modes (see section 3.5 for more details).

4 Lock Out 24V Out

This is a 24V DC output which is activated when the Lock Out Mode is triggered. The terminals provided can be used for “Normal” or “Failsafe” modes (see section 3.5 for more details).

5 Bell/Pre-Bell 24V Out

This is a 24V DC output which is activated when the Bell or Pre-Bell tone is triggered. The terminals provided can be used for “Normal” or “Failsafe” modes (see section 3.5 for more details).

6 Common 24V Out

This is a combined 24V DC output which is activated when any of the Bell, Pre-Bell, Standby, Lock In, Lock Out, All Clear, Aux MP3-1, Aux MP3-2 or Aux MP3-3 tones are activated or when paging is active. The terminals provided can be used for “Normal” or “Failsafe” modes (see section 3.5 for more details).

7 Emergency 24V Out

This is a 24V DC output which is activated when the Standby, Lock In, Lock Out and All Clear tones are activated or when Emergency paging is active. The terminals provided can be used for “Normal” or “Failsafe” modes (see section 3.5 for more details).

8 RJ45 connectors for Wall Plates

These RJ45 ports connect to the wall plates. A Maximum of 16 plates is recommended, (If more than 16 wall plates are required contact Redback for configuration details).

9 RJ45 connectors for Paging Consoles

These RJ45 ports connect to the paging consoles. A Maximum of 4 paging consoles is recommended.

10 MP3 Volume

Adjust this trimpot to adjust the MP3 tones volume.

11 Master Volume

Adjust this trimpot to adjust the master volume.

- 12 Audio Out RCA Connectors**
Connect these outputs to the input of the PA amplifier.
- 13 RJ45 connector**
This RJ45 ports is for future peripheral devices.
- 14 RJ45 connector**
This RJ45 ports is for future peripheral devices.
- 15 Pre-Bell Contact**
These contacts are for remote triggering of the Pre-Bell tone. This is the tone usually played before the main school Bell.
- 16 Bell Contact**
These contacts are for remote triggering of the Bell tone. This is the tone usually played for the school Bell.
- 17 Aux MP3-1 Contact**
These contacts are for remote triggering of custom tone 1. There are three contacts for user custom tones.
- 18 Aux MP3-2 Contact**
These contacts are for remote triggering of custom tone 2. There are three contacts for user custom tones.
- 19 Aux MP3-3 Contact**
These contacts are for remote triggering of custom tone 3. There are three contacts for user custom tones.
- 20 Micro SD Card Socket**
This socket holds the Micro SD card which is used to store all the tones or audio MP3 files.
- 21 Dip Switches**
These are used to select various options. (see section 3.6 for more details).
- 22 24V DC Input (Backup)**
Connects to a 24V DC backup supply with at least 1.5 amp current capacity. (Please observe the polarity)
- 23 24V DC Input (Main Supply)**
Connects to a 24V DC supply with at least 1.5 amp current capacity. (Please observe the polarity)

2.0 OPERATION

2.1 LOCKDOWN MODES

The A 4595A Lockdown controller has four Lockdown Modes which are Standby, Lock In, Lock Out and All Clear. Once a Lockdown mode is activated an MP3 audio file is played until the audio file finishes or the A 4595A changes mode. The Audio Files can be an Alert or Evac tone, a piece of music or a recorded message, etc and are stored on the internal SD Card (supplied). Audio files will be supplied to provide basic functionality but the installer will be required to copy their own audio files onto the SD Card (See section 3.6 for more details).

- **Standby Mode** - This would typically be used to notify students and staff that there may be a possible situation in the school grounds and to “Standby” for a possible Lock Down. A music track which doesn’t cause panic but is known by the staff would be an appropriate audio file to be played in this mode.
- **Lock In Mode** - This mode would be used to notify students and staff that there is a situation outside the school class rooms but still in the school grounds (eg The School Oval) or maybe the hall ways. Students and staff would be then required to lock themselves inside their class rooms. A warning tone, maybe with a repeating message may be suitable.
- **Lock Out Mode** - This mode would be used to notify students and staff that there is a situation inside the school buildings. Students and staff would be then required to remain outside their class rooms or other school buildings, but remain in the school grounds. This may be applicable when students are on a lunch break and are playing outside. A warning tone, maybe with a repeating message may be suitable.
- **All Clear Mode** - This would notify students and staff that it is now safe and that the situation has been rectified. A music track which is known by the staff would be an appropriate audio file to be played in this mode.

The lockdown modes can be activated in a number of ways.

- 1) Pressing the buttons on the front of the A 4595A.
- 2) Activating the modes by the A 4598 optional remote plates (see section 4.3).
- 3) Activating the modes via the A 4596 optional paging microphones (see section 4.2).

2.2 FIRE TEST/FIRE ALARM

The A 4595A has two Fire Modes (Fire Test and Fire Alarm) which can only be triggered via the optional A 4597 Wall Plate. Once a Fire mode is activated an MP3 audio file is played until the audio file finishes or the A 4595A changes mode. The Audio Files can be an alarm tone, a piece of music or a recorded message, etc and are stored on the internal Micro SD Card (supplied). Audio files will be supplied to provide basic functionality but the installer will be required to copy their own audio files onto the Micro SD Card (See section 3.6 for more details).

2.3 PREBELL/BELL

As the A 4595A is aimed primarily at schools, a Prebell and Bell function have been included. These are triggered by closing contact terminals on the rear of the unit and could be triggered by a timer such as the A 1709 Timer as shown in figure 3.3. Once the Prebell or Bell mode is activated an MP3 audio file is played until the audio file finishes or the A 4595A changes mode. (See section 3.4 for more details)
An indicator on the front of the unit will illuminate when the Prebell or Bell tone is active.

2.4 AUXILLIARY MP3 TRIGGERS

There may be times when extra tones or audio files are required to be played through the A 4595A. Examples might include playing a message each week calling students to assembly. These are triggered by closing contact terminals on the rear of the unit. Once the Aux MP3’s are activated an MP3 audio file is played until the audio file finishes or the A 4595A changes mode. (See section 3.4 for more details)

An indicator on the front of the unit will illuminate when any of the Aux MP3 tones is active.

2.5 PRIORITIES

The order of priority for the functions of the A 4595A are as follows.

- 1) Emergency paging (Via the optional A 4596 paging consoles)
- 2) Fire Alarm (Via optional A 4597 wall plate)
- 3) All Clear Mode, LockIn or Lockout Mode
- 4) Standby Mode
- 5) General paging (Via the optional A 4596 paging consoles)
- 6) Fire Test (via optional A 4597 wall plate), PreBell/Bell, AuxMP3-1, AuxMP3-2, AuxMP3-3

■ Emergency Paging

Emergency paging via the optional A 4596 paging console, overrides all other functions of the A 4595A. If emergency paging is activated by pressing the Emergency paging button on the paging console, and any of the Standby, Lock In, Lock Out or All Clear modes (the four Lock Down modes) are triggered these will become active once the emergency paging finishes.

If any of the Lock Down modes are already active and paging is initiated, it will override these modes, returning to them once paging has finished. Note: To activate emergency paging while the unit is in any of the Lock down modes, the emergency paging button doesn't need to be pressed. It is simply a matter of using the paging toggle switch to page.

■ Fire Alarm

This has the highest priority of all modes and can only be overridden by emergency paging.

The Fire Alarm can only be initiated by the Fire Alarm wall plate (A 4597).

■ All Clear Mode ,Lock In or Lock Out Mode

The All Clear, Lock In and Lock Out modes all have the same priority, meaning that if one mode is active and the other mode is triggered, the unit will switch over to the other mode. All three of these modes can be overridden by emergency paging.

■ Standby Mode

The standby mode has the lowest priority of the four Lock Down Modes but will override the Fire Test, Prebell/Bell or the Aux MP3 tones.

■ General Paging

General paging via the optional A 4596 paging console overrides the Fire Test, PreBell, Bell and AuxMP3-1 to Aux MP3-3 triggers.

■ Fire Test, PreBell/Bell Tone ,AuxMP3-1, AuxMP3-2, AuxMP3-3

These triggers have the lowest priority of all functions on the A 4595A and can be overridden by every other function.

The Fire test can only be initiated by the Fire Test wall plate (A 4597).

3.0 SETUP GUIDE

3.1 POWER CONNECTIONS

A DC socket and a 2 way terminal have been provided for 24V DC input.

The DC socket is for connection of the supplied plugpack which comes with a standard 2.1mm jack connector. The 2 way terminal is for connection of a backup power supply or battery.

3.2 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. The output level is adjusted via the Master volume trimpot on the rear of the unit. The output level of the MP3 audio files is adjusted via the MP3 level trimpot on the rear of the unit.

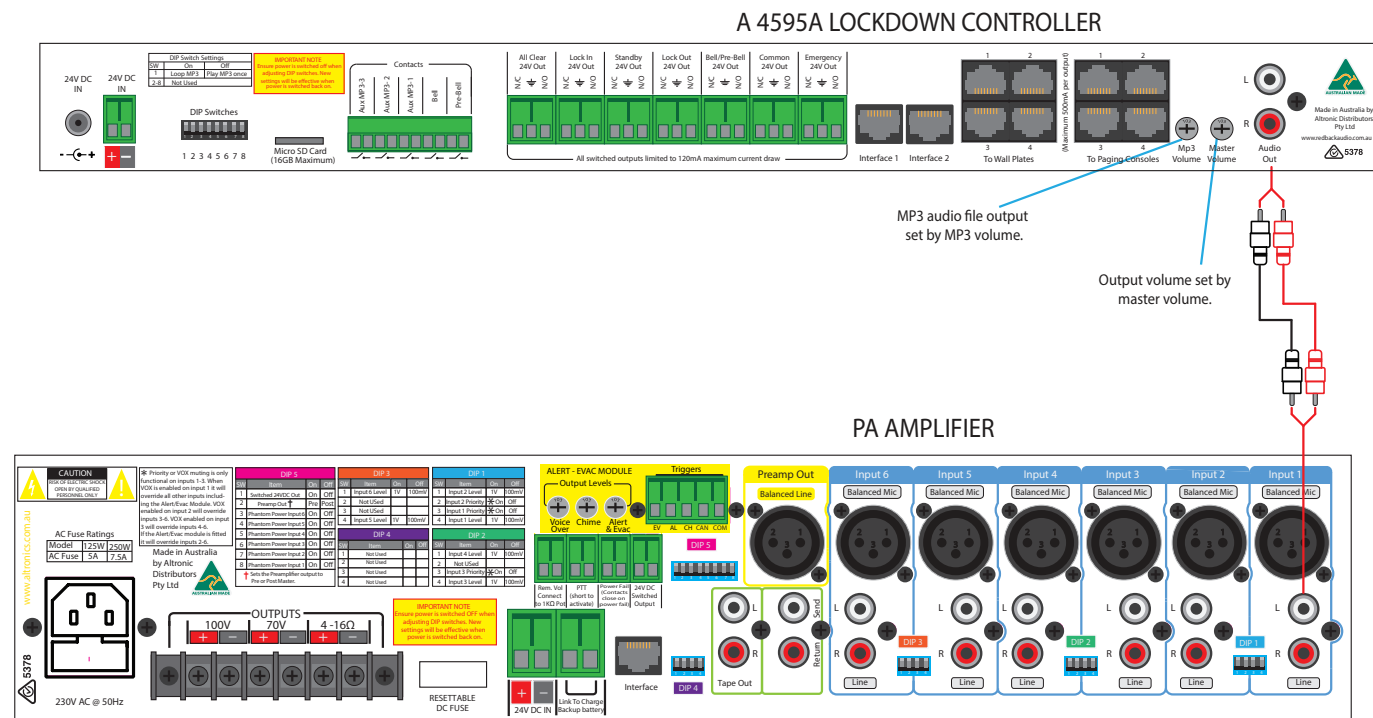


Fig 3.2

3.3 24V DC OUTPUT CONNECTIONS

There are seven sets of output terminals for the connection of 24V DC driven devices. E.g School Bell, warning strobes, override relays in volume controls etc.

Each set of output terminals have a N/O (normally open), N/C (normally closed) and a ground connection. In this configuration 24V appears between the N/O and ground terminals when this output is activated. When this output is not active 24V appears between the N/C and ground terminals.

(NOTE: The maximum current draw per output is about 120 milliamps, so it is advisable to run external 24V DC relays instead of trying to drive a 24V DC device directly from these outputs. See Fig 3.3 for an example of this).

Bell/Pre Bell 24V Out:

These contacts are for operating an external relay used to operate something like a school bell.

Fig 3.3 demonstrates an example of how to connect the A 4595A Lockdown Controller to the A 1708 timer to trigger the schools Pre-Bell and Bell .

The Zone 1 closing contact of the timer is used to trigger the school Pre-bell contact and the Zone 2 closing contact is used to trigger the school Bell. In the example shown the Bell/Pre Bell 24V Output is used to drive a 24V school Bell. As the current draw of the Bell is more than 120mA a relay board is used to switch an external power supply. The S 4444 24V Relay Board as shown below or the S 4455 12/24/48V Din Rail Relay box are inexpensive and easily installed options designed for this purpose.

Standby 24V Out:

These contacts are for switched 24V outputs whenever the Standby mode is activated. These may be used to run external systems such as strobes in unusually noisy environments or for hearing impaired students or staff. They may also be used for the connection of override relays in remote volume controls. An override relay is necessary where attenuators are used so that the audio is broadcast at full volume regardless of the volume setting on the individual volume control (attenuator).

Lock In 24V Out:

These contacts are for switched 24V outputs whenever the LockIn mode is activated. These may be used to run external systems such as strobes in unusually noisy environments or for hearing impaired students or staff. They may also be used for the connection of override relays in remote volume controls.

Lock Out 24V Out:

These contacts are for switched 24V outputs whenever the LockOut mode is activated. These may be used to run external systems such as strobes in unusually noisy environments or for hearing impaired students or staff. They may also be used for the connection of override relays in remote volume controls.

All Clear 24V Out:

These contacts are for switched 24V outputs whenever the All Clear mode is activated. These may be used to run external systems such as strobes in unusually noisy environments or for hearing impaired students or staff. They may also be used for the connection of override relays in remote volume controls.

Common 24V Out:

These contacts are for switched 24V outputs whenever any Bell, Pre-Bell, Standby, Lock In, Lock Out, All Clear, Fire Test, Aux MP3-1, Aux MP3-2 or Aux MP3-3 tones are activated or when paging is active. These may be used to run external systems such as strobes in unusually noisy environments or for hearing impaired students or staff. They may also be used for the connection of override relays in remote volume controls.

Emergency 24V Out:

These contacts are for switched 24V outputs whenever the Standby, Lock In, Lock Out, Fire Test, Fire Alarm and All Clear modes are activated or when emergency paging is active. These may be used to run external systems such as strobes in unusually noisy environments or for hearing impaired students or staff. They may also be used for the connection of override relays in remote volume controls. A possible use for this output would be to override the zone which provides audio to the school assembly area. General paging is blocked to this area but emergency paging is still required.

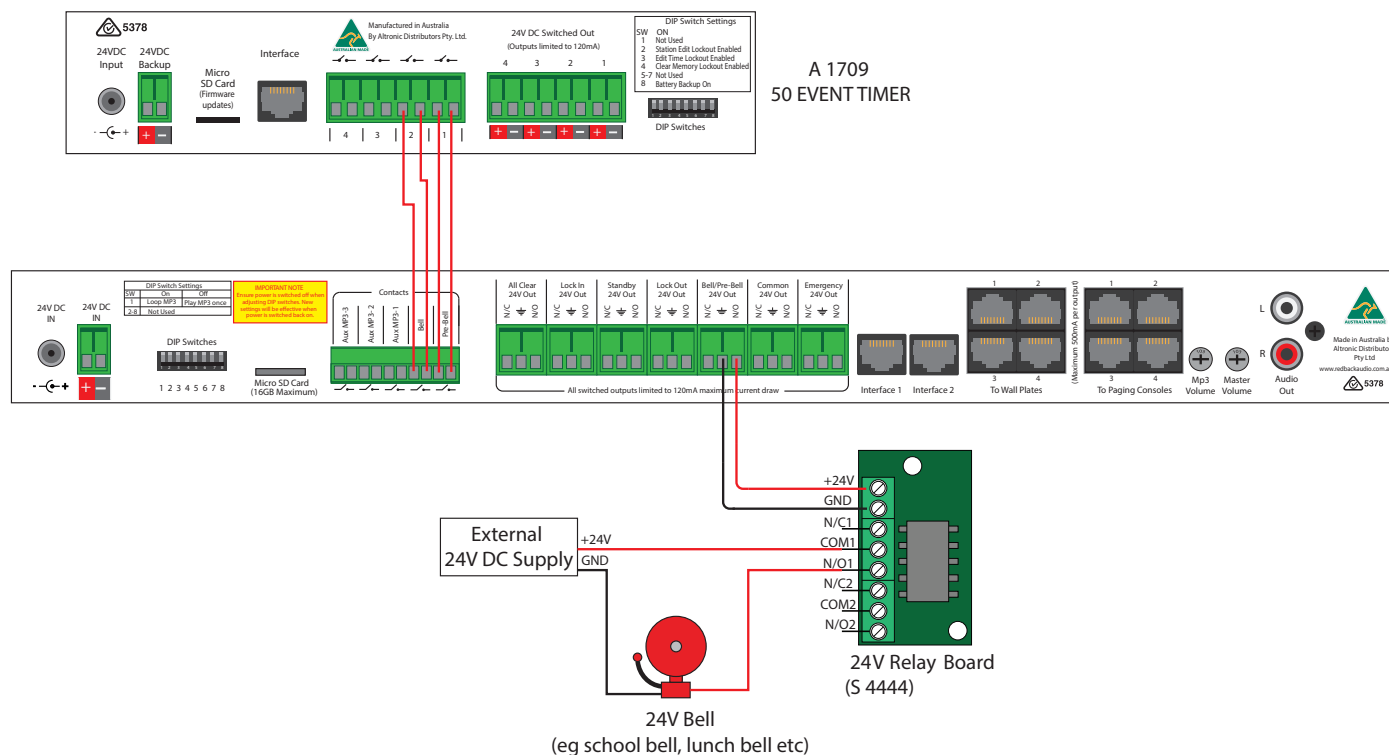


Fig 3.3

Redback® A 4595A School Lockdown Controller

3.4 Micro SD CARD (MP3)

The micro SD card supplied with the unit has audio files for testing purposes only. These audio files do not meet any Australian standards or fulfill any particular criteria.

The audio files must be in MP3 format (they cannot be WMA) and are stored in folders on the Micro SD Card.

NOTE: It is recommended to store only one MP3 file in each folder.

The A 4595A will play the first file it finds in each folder which corresponds to the mode the unit is running in.

For example if "Standby Mode" is activated, the A 4595A will search the "Standby" folder on the Micro SD card, and

then play the corresponding MP3 file. If DIP switch 1 is set to "ON" (See DIP switch settings in section 3.6) the MP3 will be played in a continuous loop. If DIP Switch 1 is set to "OFF" the MP3 will play only once.

The length of time the MP3 plays for is determined by the length of the actual MP3 file itself.

3.6.1 Installing MP3's on to the A 4595A

- Firstly remove power from the A 4595A and then remove the Micro SD card from the rear of the unit.

To remove the Micro SD card, push the card in and it will eject itself.

The Micro SD card will then need to be connected to a PC, equipped with a Micro SD card reader.

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

- Go to "My computer" as shown in Fig 3.4a and open the Micro SD card which may be labelled Local Disk or Removable Disk.

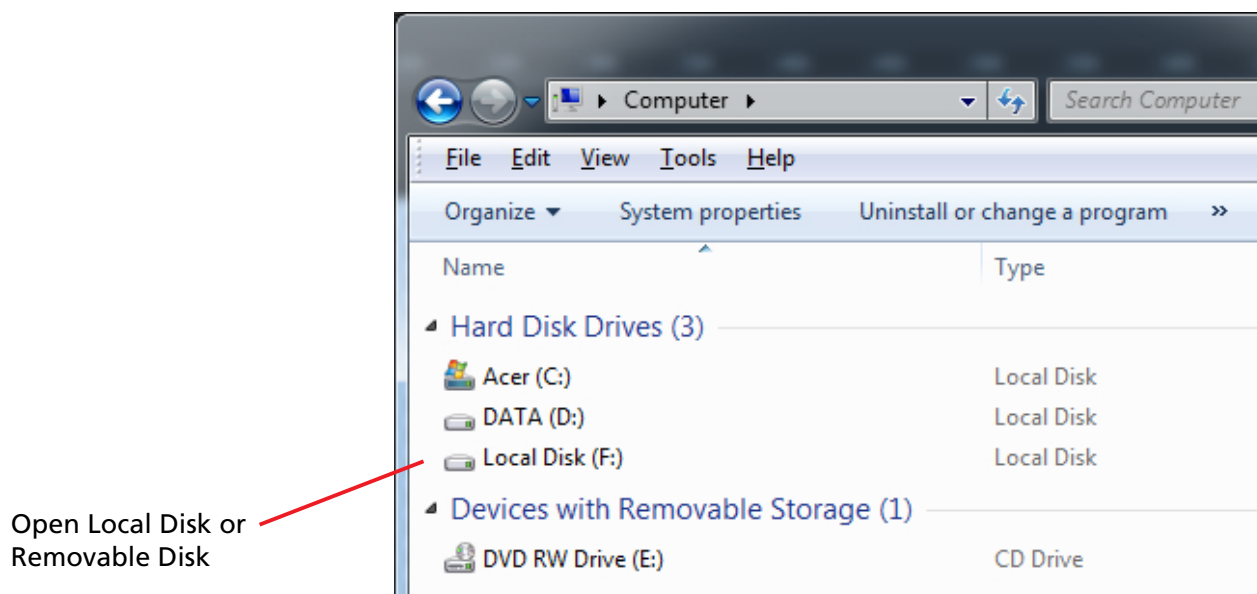


Fig 3.4a

- Once the Micro SD card has been opened you should see a series of folders as shown in Fig 3.4b. These folders relate to the triggers and modes of the A 4595A. E.g the "All Clear" folder contains the MP3 which is played when the "All Clear" mode is activated.

NOTE: There is a folder labelled #LIBRARY# which has some samples tones, school bells etc.

NOTE: Some A 4595A models may not have the Fire and Firetest folders supplied on the SD card. If using the A 4597 wall plate (See section 4.3), these folders will need to be added to the SD card.

We will use the allclear folder to demonstrate the installation of the MP3 file.

all clear folder

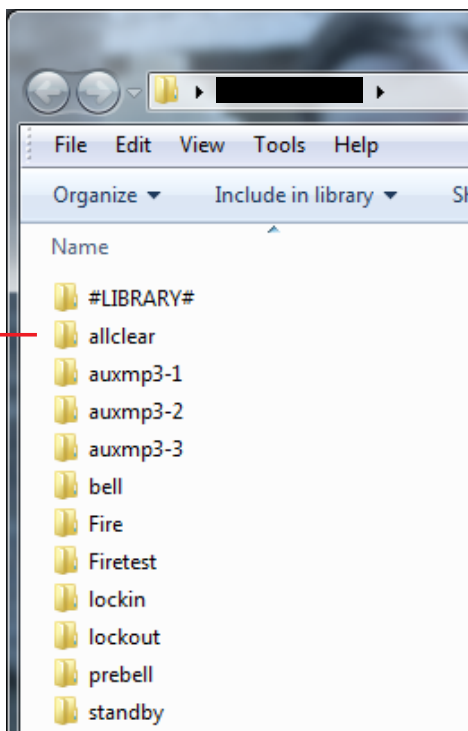


Fig 3.4b

- Open the allclear folder and inside you should find an MP3 audio file as shown in Fig 3.4c. Delete this file and copy your own MP3 file to this folder as shown in fig 3.4d (NOTE : The audio file must be in MP3 format). The file can be named anything you like as long as it is in MP3 format (iin this case we have named it New_allclear_tone).

(NOTE : Do not rename any of the folders.)

Delete this file
and replace it
with a new MP3

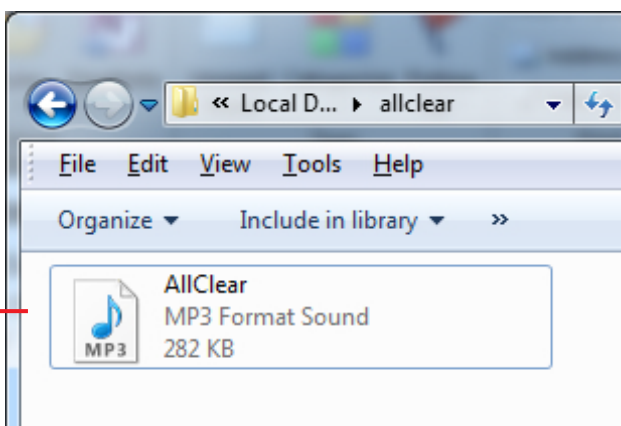


Fig 3.4c

Your custom
MP3 file.

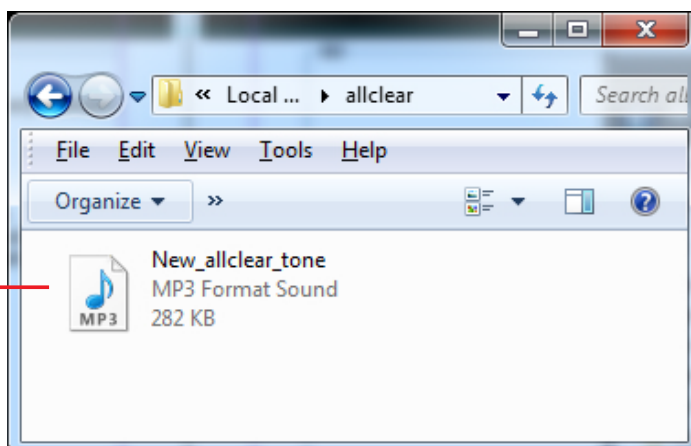


Fig 3.4d

Redback® A 4595A School Lockdown Controller

- The new MP3 file you have installed cannot be “Read Only”.

To check if the file is read-only, select the properties of the file (as shown in Fig 3.4e) by either
a) right clicking on the file with your mouse and then selecting “Properties” of the file.
b) selecting “File” in the tabs bar and then selecting “Properties” of the file.

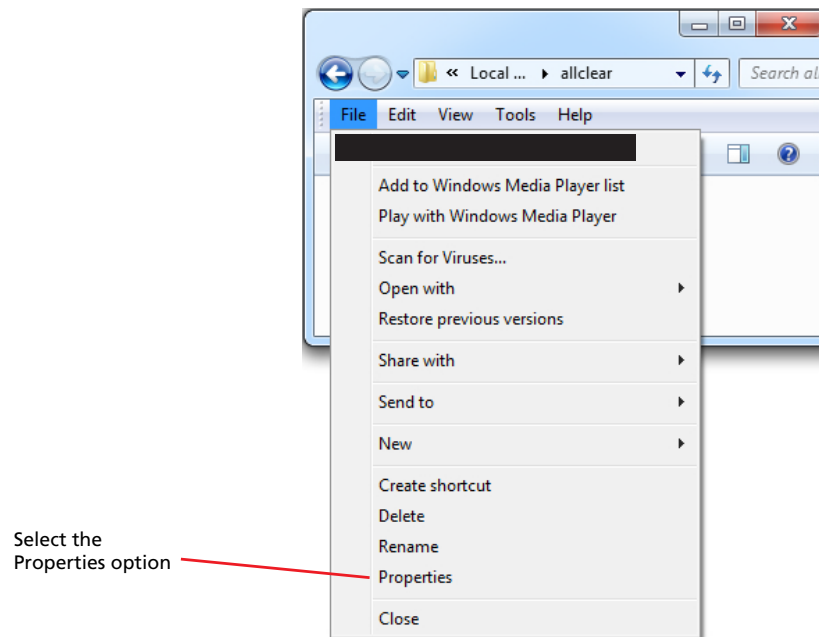


Fig 3.4e

- The properties will then come up as shown in Fig 3.4f. Make sure the Read-only check box is not checked.

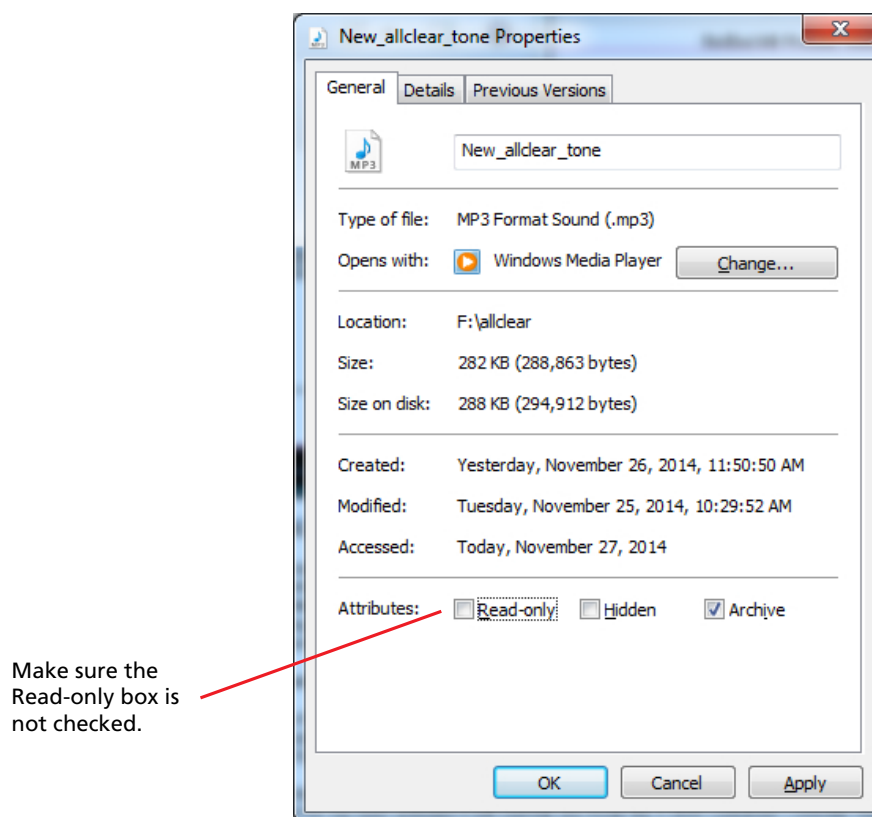


Fig 3.4f

- The “All Clear” MP3 file is now installed and ready to function as it should. Repeat this procedure for all the MP3 files required. Once complete, remove the SD card from the PC, following Windows safe card removal procedures. Make sure the A 4595A is OFF and then insert the SD card back into the rear of the unit. The SD card holder will click when the SD card is inserted correctly.

3.5 CONNECTING TO THE A 4565 ALERT/EVAC CONTROLLER

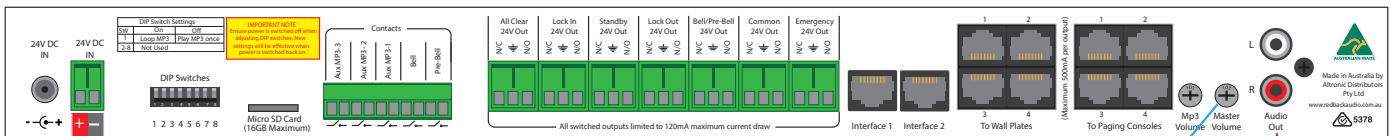
A complete Fire Evacuation System can be configured when the A 4595A is complemented with the A 4565 Alert/Evacuation Controller.

The A 4565 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.

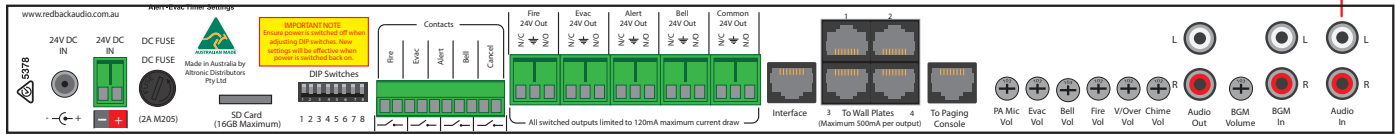
The output of the A 4595A Lockdown controller is connected to the Audio In Input of the A 4565 using dual RCA leads. The output volume is set by the Master volume trimpot adjustment on the rear of the A 4595A. The output of the A 4565 is then fed into the buildings PA system.

When connected in this manner the A 4565 Alert/Evac Controller has priority over the entire system and once any function on the A 4565 has been activated it will override any mode the A 4595A Lockdown Controller may be in.

A 4595A LOCKDOWN CONTROLLER



A 4565 ALERT/EVAC CONTROLLER



PA AMPLIFIER

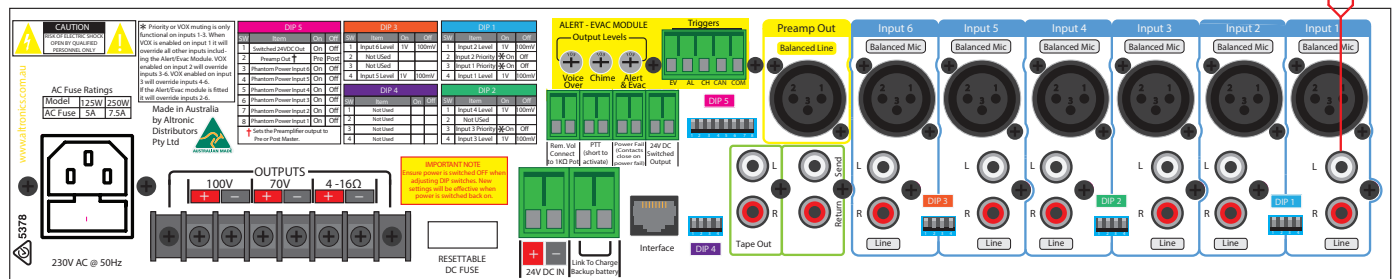
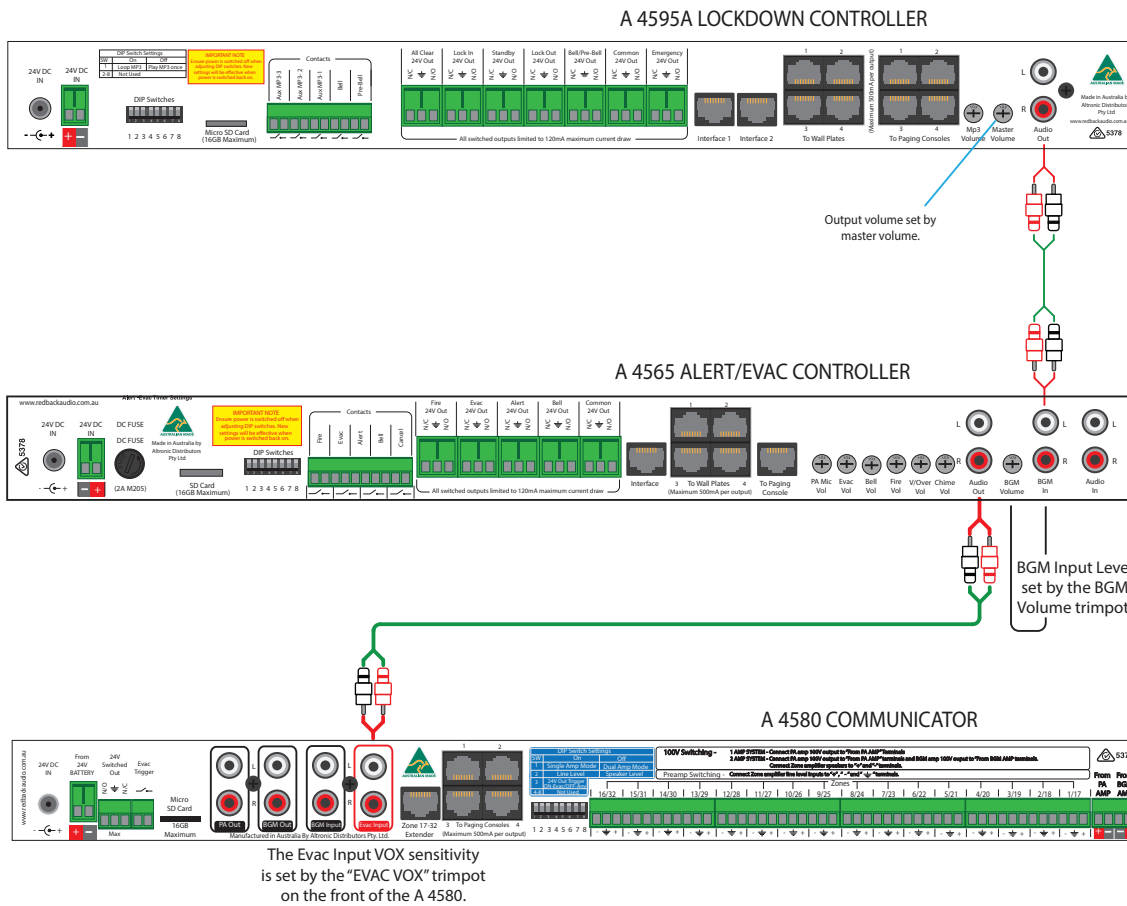


Fig 3.5

Redback® A 4595A School Lockdown Controller

3.6 CONNECTING THE LOCKDOWN CONTROLLER TO THE A 4565 ALERT/EVAC CONTROLLER AND THE A 4580 16 ZONE PAGING SYSTEM.

A complete Fire Evacuation and paging system can be configured when the A 4595A is connected to the A 4565 Alert/Evacuation Controller and the A 4580 16 Zone Paging System. In order to allow the A 4595A and the A 4565 to be fed through the paging system, the wiring diagram shown in Fig 3.6 must be followed. The audio output of the A 4595A is fed into the BGM (background music input) of the A 4565. The Audio output of the A 4565 is then fed into the Evac input of the A 4580. If background music is required this is fed into the BGM input of the A 4580, not the A 4565. The A 4565 has the highest priority in this setup and will override any lockdown condition.



When using the A 4595A Lockdown Controller, the A 4565 Alert/Evac Controller and the A 4580 16 Zone Communicator together in a system, the following wiring diagram must be followed.

The A 4565 has the highest priority in this system and will over-ride any lockdown condition.

Connections:
The Audio output from the A 4595A Lockdown controller is fed into the BGM (Background Music) input on the rear of the A 4565 Evac Controller. The Audio output from the A 4565 is then fed into the Evac input of the A 4580 paging system. If background music is required through the system it is connected to the BGM input on the rear of the A 4580 (Not the A 4565).

Fig 3.6

3.7 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.

Switch 1

This switch determines the MP3 play mode. When set to "ON" the triggered MP3 audio file will play in a continuous loop. When set to "OFF" the triggered MP3 audio file will play only once.

Switch 2-8 Not Used.

4.0 PAGING CONSOLES

4.1 A 4596 OVERVIEW

The A 4596 paging console provides general paging, emergency paging and remote selection of “Standby”, “Lock In”, “Lock Out” and “All Clear” modes.

General paging is achieved by simply pressing the PTT (push to talk) switch and then speaking. General paging will override the Prebell, Bell and all three AuxMP3 triggers.

Emergency paging is achieved by pressing the emergency paging button and then the PTT (push to talk) switch. This combination removes the possibility of accidental activation. When activated, emergency paging overrides all functions of the A 4595A.

If one of the four Lockdown modes (Standby, Lock In, Lock Out or All Clear) is already active, then emergency paging can be achieved by simply using the PTT switch without the need to press the emergency paging button first.

The four Lock Down modes can all be activated from the A 4596 paging console. Simply Press the button for the desired mode and hold for 2-3 seconds to activate. The priorities for these are the same as on the main A 4595A unit. I.e All Clear overrides Lock Down and Lock In, which have the same priority, which then overrides Standby.

NOTE: The All Clear button is also a Cancel button.

If the “Standby”, “Lock In” or “Lock Out” modes are active and need to be cancelled, press the “All Clear” button to activate the All Clear and then press the All Clear button again to cancel.

A maximum of 4 paging consoles can be connected to the A 4595A at the same time. These work in a “first in, best dressed” arrangement. The consoles are wired back to the A 4595A via CAT5E cabling to the four RJ45 ports on the rear of the unit (see section 4.1.3 to 4.1.5 for details).

Each unit must be assigned an ID number through DIP switch settings on the rear of the unit.

A pre-announcement chime is available at the paging console and through the PA system. Both of these are set by DIP switches on the rear of the unit.



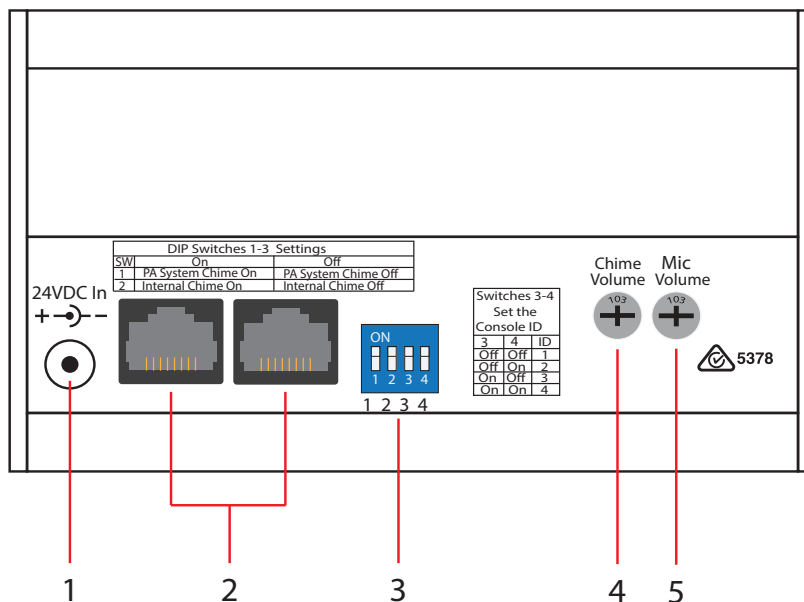


Fig 4.1a

4.1.1 Rear Panel Connections

- 1 24V DC connector**
2.1mm DC jack (centre pin positive).
- 2 RJ45 connector**
For connection back to the A 4595A. Either port can be used
- 3 DIP switch options**
These switches set the chime options and also assign a location number or ID to the console.
- 4 Chime volume**
Use this volume to adjust the chime level.
- 5 Microphone volume**
Use this volume to adjust the microphone level.

4.1.2 DIP Switch Settings

A series of DIP switches which are accessed on the rear of the unit provide a number of options.

DIP switch 1 sets the PA system chime on or off.
DIP switch 2 sets the internal chime on or off.
DIP switches 3-4 select the ID number for the console.

Fig 4.1b shows the ID settings.

A maximum number of 4 consoles can be connected to the A 4595A.

DIP Switches 1-3 Settings		
SW	On	Off
1	PA System Chime On	PA System Chime Off
2	Internal Chime On	Internal Chime Off

Switches 3-4 Set the Console ID		
3	4	ID
Off	Off	1
Off	On	2
On	Off	3
On	On	4

Fig 4.1b

IMPORTANT NOTE:

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

4.1.3 Connecting the paging consoles

The consoles are connected to the A 4595A via standard Cat5e cabling as shown in Fig 4.1c. The maximum distance between the A 4595A and a paging console is 300m. Note that each paging console must be assigned an ID number before operation (see 4.1.2 DIP switch settings).

A maximum of four consoles can be connected using the four RJ45 ports on the back of the A 4595A.

Fig 4.1c shows how to connect one paging console per RJ45 port.

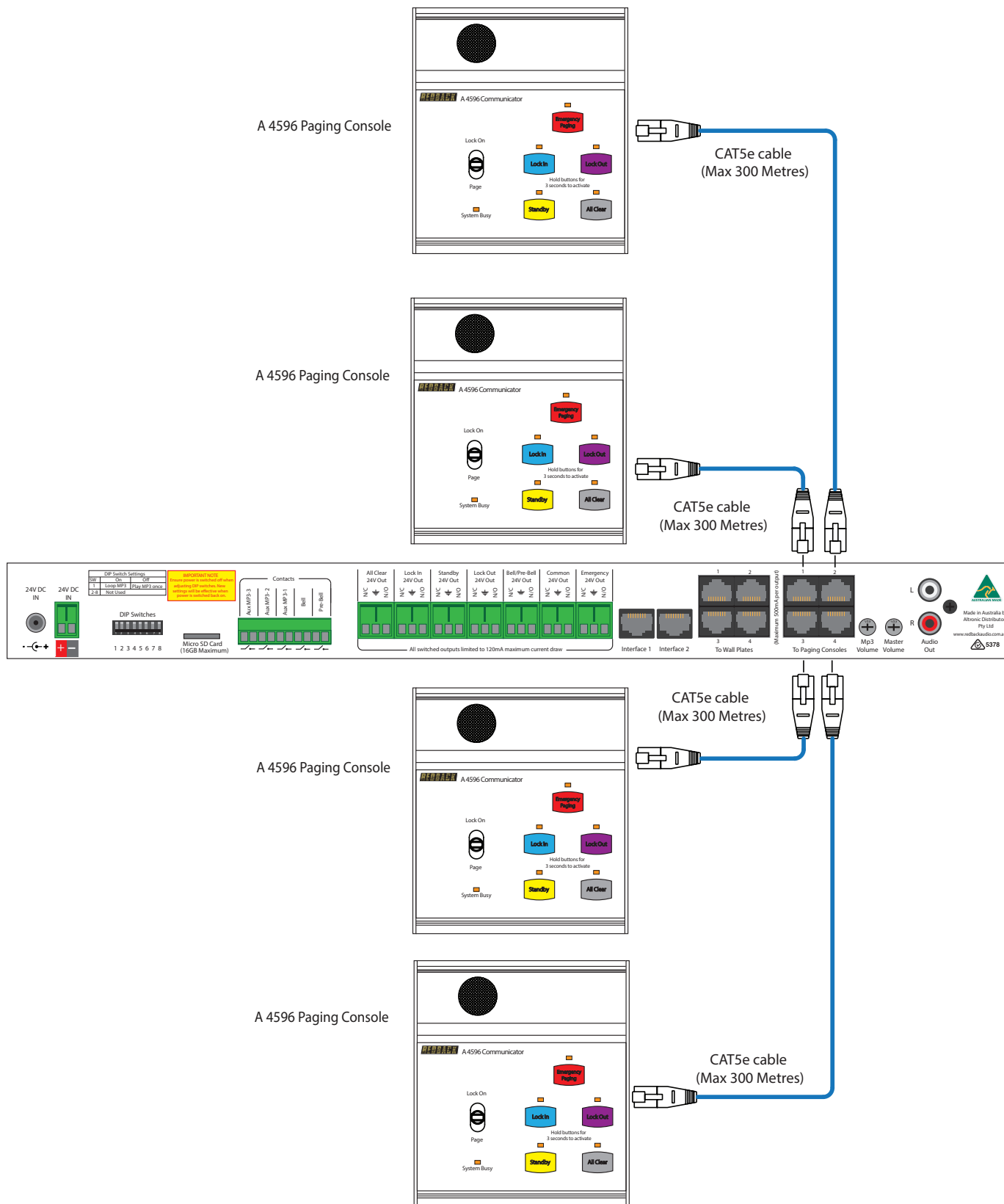


Fig 4.1c

Redback® A 4595A School Lockdown Controller

4.2 A 4598 & A 4598V Lockdown Remote Plates

The A 4598 wall plate allows a remote means of triggering the Standby, Lock In, Lock Out and All Clear modes. 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 4595A via standard Cat5e cabling as shown in figure 4.2B. There are two RJ45 ports on the rear of the A 4598 and A 4598V wall plates, either of which can be used.

NOTE: The All Clear switch doubles as a Cancel switch. Pressing the switch when the unit is in “All Clear” mode will cancel the “All Clear” mode.



A 4598



A 4598V

CASCADING THE A 4598 PLATES

If more than one remote wall plate is required then the A 4598 and A 4598V wall plates can be connected back to the A 4595A using any of the four RJ45 ports supplied. If more than four wall plates are required then they can be cascaded together back to the A 4595A as shown in figure 4.2B.

A Maximum of 16 combined wall plates (A 4598, A 4598V or A 4597) is recommended, but up to 63 wall plates can be connected.

(If more than 16 wall plates are required contact Redback for configuration details).

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 4.2A 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	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	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
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 4.2A

Redback® A 4595A School Lockdown Controller

Redback recommends a combined maximum of 16 x (A 4598, A 4598V or A 4597) wall plates be connected to the A 4595A as shown in this figure.

Although up to 63* wall plates can be cascaded together to the A 4595A.

* (If more than 16 wall plates are required contact Redback for configuration details).

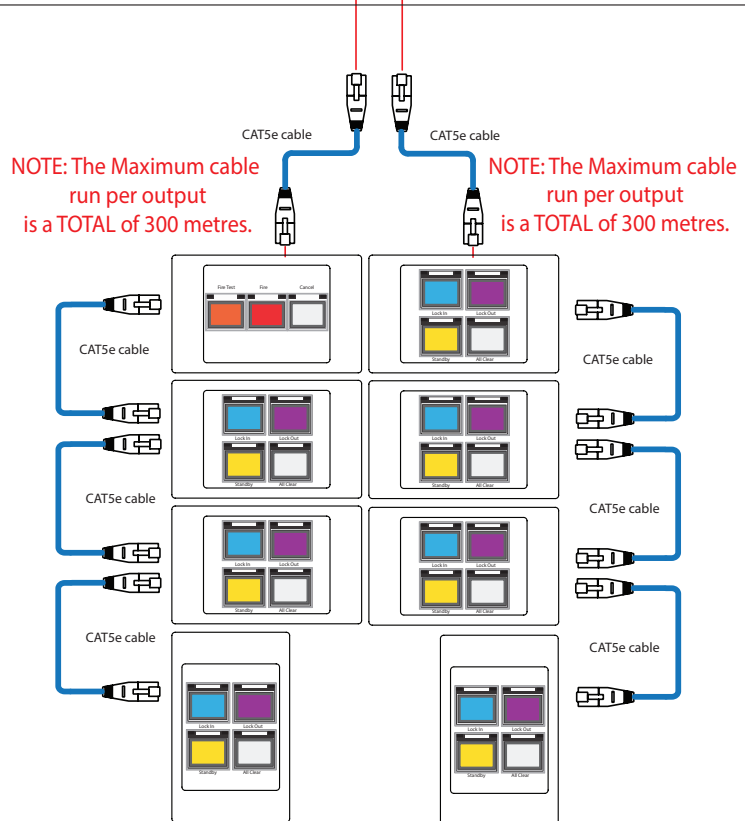
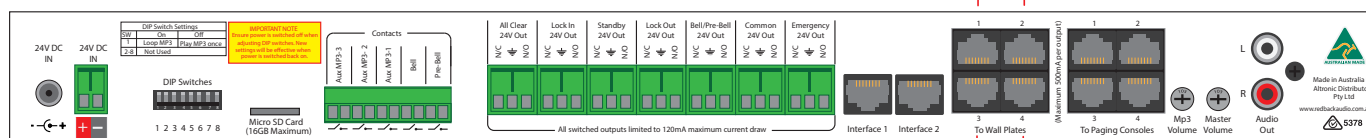
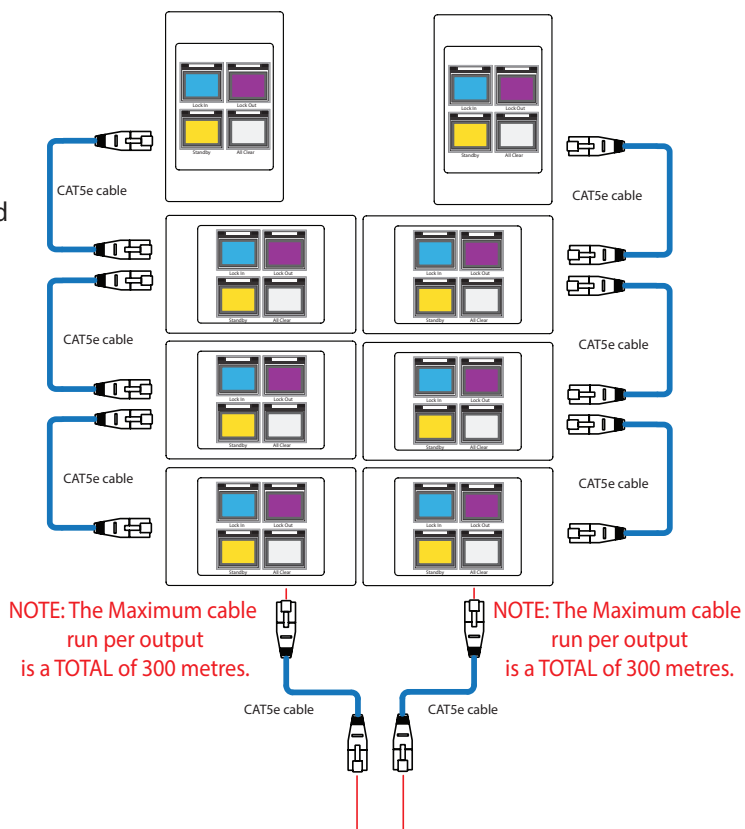


Fig 4.2B

4.3 A 4597 Fire Test/Fire Remote Plate

The A 4597 wall plate provides the means to remotely operate the Fire Test and Fire Alarm tones of the A 4595A. 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 4595A via standard Cat5e cabling as shown in Fig 4.2C. There are two RJ45 ports on the rear of the A 4597 wall plate, either of which can be used. These are connected in the same manner as the A 4598 wall plates, and can be daisy chained in line with the A 4598 plates.

NOTE: The Fire Test and Fire tones cannot be triggered by any other means than the A 4597 wall plate.



CASCADING THE A 4597 PLATES

If more than one remote wall plate is required then the A 4597 wall plates can be connected back to the A 4595A using any of the four RJ45 ports supplied. If more than four wall plates are required then they can be cascaded together back to the A 4595A as shown in Fig 4.2C.

A Maximum of 16 combined wall plates (A 4597 or A 4598) is recommended, but up to 63 wall plates can be connected. (If more than 16 wall plates are required contact Redback for configuration details).

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 4.3B 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	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	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
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 4.3B

5.0 TROUBLE SHOOTING

5.1 SYMPTOMS AND REMEDIES

SYMPTOMS	REMEDIES
Front switches not responding	Press and hold switch for at least 2 seconds
Output Volume Level Is Low	Adjust master volume on rear of unit
MP3 Volume Level Is Low	Adjust MP3 volume on rear of unit
No power to unit.	Check fuse and replace with 2A M205 type fuse if required.
Audio files not playing	Audio files must be MP3 format. Check SD card
DIP switch changes not effective	Turn the unit OFF before changing DIP switch settings. Settings become effective after power is returned.

5.2 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 5.2. 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 5.2

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".

6.0 SPECIFICATIONS

OUTPUT LEVEL:.....0dBm into 600Ω

OUTPUT CONNECTORS:

Audio Output:.....RCA Stereo Socket

Emergency 24V DC Out:.....Euroblock terminal

Common 24V DC Out :.....Euroblock terminal

Prebell/Bell 24V DC Out:.....Euroblock terminal

Standby 24V DC Out:.....Euroblock terminal

Lock In 24V DC Out:.....Euroblock terminal

Lock Out 24V DC Out:.....Euroblock terminal

All Clear 24V DC Out:.....Euroblock terminal

PLEASE NOTE: Maximum output load per output is 120mA

INPUT CONNECTORS:

Paging Console Input:.....4 x RJ45 8P8C

Wall Plate Input:.....4 x RJ45 8P8C

24V DC Power:.....Euroblock terminal

24V DC Power:.....2.1mm JACK (centre +ve)

PreBell, Bell, AuxMp3 triggers:.....Euroblock terminal

CONTROLS:

MP3 Volume:.....Rear Volume

Master Volume:.....Rear Volume

Power:.....On/Off Switch

Standby Switch:.....Illuminated Push Switch

Lock In Switch:.....Illuminated Push Switch

Lock Out Switch:.....Illuminated Push Switch

All Clear Switch:.....Illuminated Push Switch

INDICATORS:.....Power on

Bell/Prebell Active, Mp3 Error, Aux Mp3 Active,PA Active

MP3 FILE FORMAT: up to 320kbps, 44.1kHz, 32bit,VBR or CBR, Stereo (even better as mono).

POWER SUPPLY:.....24V DC @ 2 Amp

DIMENSIONS:≈..... 483W x 125D x 44H

WEIGHT: ≈..... 1.6 kg

COLOUR: Black

* Specifications subject to change without notice