A 4580

A 4660

A 4658

Operating Manual

A 4580 Zone Paging System

A 4658 Power Injector Box (Optional)
A 4660 4-32 Zone Paging Console (Optional)

User manual revision number: 1.9 21/02/2024

Distributed by Altronic Distributors Pty. Ltd.
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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 unit from working as designed.

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1.0 OVERVIEW

1.1 INTRODUCTION

This unit is a very versatile cost effective public address/background music control system which provides audio to up to 32 zones (*32 zones only available when two A 4580 units are daisy chained). Background music which can be selected to play through any zone is muted when general paging occurs or when an evacuation input overrides the system.

Operation is as follows:

Background music is piped to any zone which has been selected to have background music via switches on the front of the A 4580.

General Paging (via optional paging consoles) will mute the background music to the zone paged or all zones depending on the setup configuration. The paging audio will then feed to the selected zones.

Evac Input mutes background music to all zones. This is a vox enabled dual RCA input which can be adjusted via the vox sensitivity control on the front of the unit. Once the evac input is triggered, background music will be muted to all zones and the audio present at the Evac input will be piped to all zones.

1.2 FEATURES

- 16 zone paging (up to 32 zones with a second unit)
- Background music selectable to each zone
- 100V or line level switching
- 24V switched output
- Evac Input
- Evac Trigger
- Backup battery input
- Single amp or Dual amp mode
- 24V DC operation (plugpack supplied).
- 19" Rack Mount (2 unit).

Optional Features

- Zone and emergency over-ride paging via A 465 and A 4660 paging consoles.

1.3 WHAT'S IN THE BOX

A 4580 Audio Switcher
24V DC 2A Plugpack
USB - PS2 compatible keyboard (Altronics D 2111)
Instruction Booklet

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 5.0 "Troubleshooting".

1.4 FRONT PANEL GUIDE

Fig 1.4A shows the layout of the A 4580 front panel.

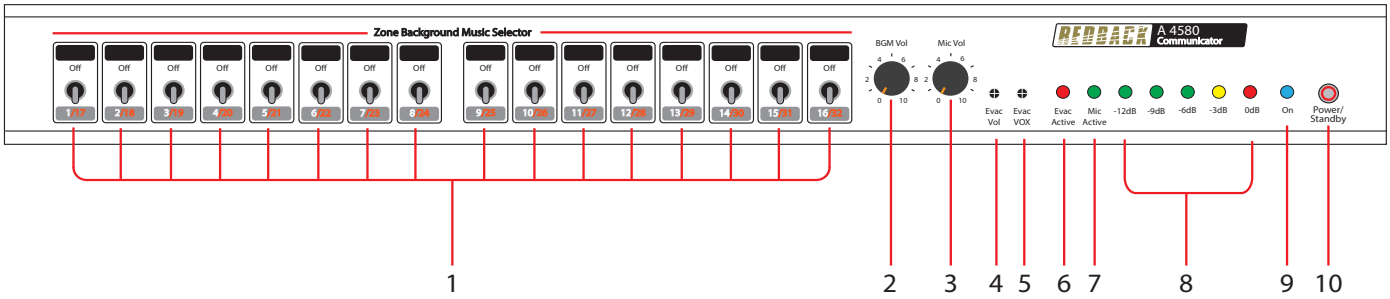


Fig 1.4A

1 **Zone Background music selector switches**
Use these switches to turn on or off the background music to a zone.

2 **Background music volume control**
Use this control to adjust the volume of the background music input.

3 **Paging microphone volume control**
Use this control to adjust the volume of the paging microphone input.

4 **Evac volume control**
Use this control to adjust the volume of the Evac Input.

5 **Evac VOX**
This trimpot is used to set the VOX sensitivity of the Evac input.

6 **Evac active indicator**
These LED illuminate to indicate when the evac input is active.

7 **Mic active indicator**
This led illuminates to indicate when the microphone is active.

8 **LED VU Meter**
This LED bargraph provides a visual indication of the output signal.

9 **On indicator**
This led indicates the unit has power.

10 **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.

1.5 REAR PANEL CONNECTIONS

Fig 1.5A shows the layout of the A 4580 rear panel.

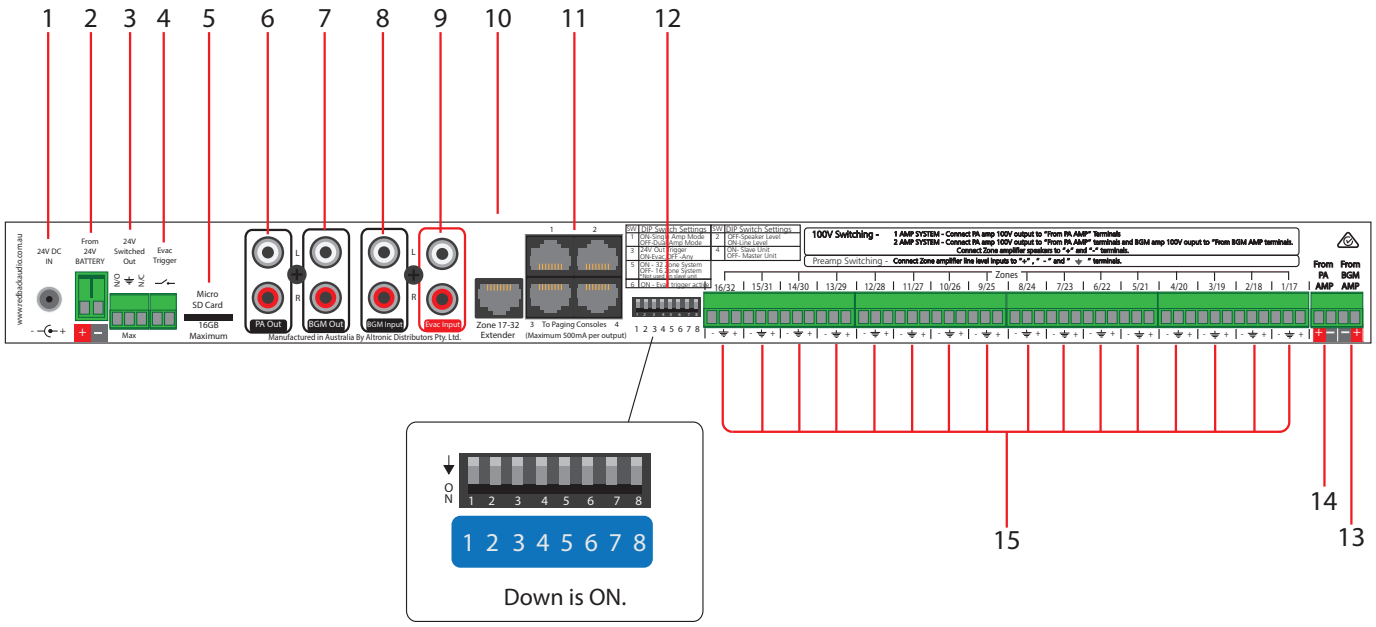


Fig 1.5A

1 **24V DC Input**
Connects to a 24V DC Plugpack with 2.1mm Jack. (Please observe the polarity)

2 **24V Battery Backup**
Connect a 24V backup supply to these terminals. (Please observe the polarity)

3 **24V DC Switched Output**
A 24V output is provided which operates in a normally closed and normally open condition.
This is activated whenever a zone is paged or when an evac input is triggered (see dip switch settings).

4 **Evac Trigger**
This is activated by a closing contact such as a switch. Once activated the audio from the Evac input will be piped to all zones.

5 **Micro SD Card Socket**
This is used for firmware updates (see Section 5.0 for more details). A Micro SD card is not supplied.

6 **PA Out RCA Connectors**
Connect these outputs to the input of the paging amplifier

7 **BGM Out RCA Connectors**
Connect these outputs to the input of the background music amplifier

8 **BGM In RCA Connectors**
Connect these inputs to the output of the background music source such as a CD player.

9 **Evac In RCA Connectors**
Connect these inputs to the output of an evacuation tone generator.

10 **Zone 17-32 Extender**
Use this port for connection of a second A 4580 for paging to zones 17-32 .

11 **RJ45 connectors for paging consoles**
These RJ45 ports connect to the A 4660 zone paging consoles.
NOTE: A maximum of two A 4660 microphone paging consoles may be connected to each port.

12 Dip Switch Settings

. *Note: The DIP switches are ON when they are down.*

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

DIP switch 1 sets the amplifier mode, either single amp or dual amp mode. (see section 2.2 for more details)
ON - Single Amp Mode, OFF - Dual Amp mode
DIP switch 2 sets the output level, either line level or 100V speaker level. (see section 2.2 for more details)
ON - Line Level, OFF - Speaker Level
DIP switch 3 sets the 24V DC switched output configuration. This can be set to operate when any zone is triggered or for Evac triggering (see section 2.5 for more details).
ON - Evac Triggering, OFF - Any Zone Triggering
DIP switch 4 sets the A 4580 as either a master or slave unit. When using the A 4580 with 16 zones only, it must still be set to be a master unit. When the A 4580's are being used for 32 zones of paging one unit must be the master and the second unit must be a slave.
ON - Slave, OFF - Master
DIP switch 5 sets the master A 4580 as a 16 or 32 zone switcher (This switch is not used on the slave unit).
ON - 32 zone system, OFF - 16 zone system
DIP switch 6 sets the Evac trigger as active. ON - Active. OFF - disabled.
DIP switches 7-8 are not used.

. *Note: The DIP switches are ON when they are down.*

13 From BGM AMP input
Connect this 100V line input from the 100V output of the BGM (background music) amplifier.

14 From PA AMP input
Connect this 100V line input from the 100V output of the PA (or paging) amplifier.

15 Zone 1-16 outputs.
The zone outputs can be either 100V or line level depending on configuration of the dip switches (see Fig1.6A)

2.0 SETUP

2.1 Setup Guide

The A 4580 is a 16-32 zone paging system which switches 100V speaker levels or balanced low level (line levels) signals. Background music which can be piped to any zone is muted when paging is initiated by the paging consoles or when the Evac input is triggered.

WARNING : For correct operation the dip switches 1 & 2 need to be set before using the unit.

If the A 4580 is being used in single amplifier mode (see section 2.2.1) dip switch 1 must be set to "ON"
otherwise if the unit is being used in two amplifer mode (see section 2.2.2) then dip switch 1 must be set to "OFF"

When using the unit for 100V speaker switching Dip switch 2 must be set to "OFF".
If line level switching is required then Dip Switch 2 must be set to "ON".

Failure to set the dip switches correctly might result in the unit malfunctioning.

2.2 SWITCHING 100V SPEAKER LEVELS

There are two different configurations for switching 100V speaker levels. The first uses a single amp system which is used for both Background music and PA paging. This setup mutes background music to "ALL" zones when any zone is paged. (see section 2.2.1)

The second setup involves a two amplifier system where both the background music and the PA paging has its own dedicated amplifier. This setup mutes background music to only those zones which are being paged. (See section 2.2.2)

2.2.1 SINGLE AMPLIFIER 100V LINE SWITCHING

A single amp system uses one amplifier which is used for both the background music and the PA paging. In this configuration when any zone or zones is paged the background music will be muted to all zones. (Note: If muting is desired for only those zones being paged a two amplifier setup is required (See section 2.2.2)).

NOTE : Before turning the unit on make sure the dip switches are set correctly.
For single amp switching of 100V speaker levels, Dip switch 1 should be set to "ON" and dip switch 2 should be set to "OFF" (see 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.

Each zone requiring background music must be switched "ON" from the "Zone Background Music Selector" switches on the front of the A 4580. (refer to section 1.4)

A background music source such as a CD player is connected to the BGM input (RCA connectors) on the rear of the A 4580.
The amplifier audio connection is from the "PA Out" RCA sockets on the rear of the A 4580. This is a line level signal and must be connected to a Line/Aux input on the amplifier. This is a mixed output which contains both the paging audio and BGM audio.
The amplifier 100V output must be connected to the "From PA AMP" terminals on the rear of the A 4580.
The zone 100V speakers are wired to the "+" and "-" terminals only on the rear of the A 4580 as shown in Fig 2.1.
(Note: the earth connection is not used for 100V switching system. This terminal is used when switching line level signals.)

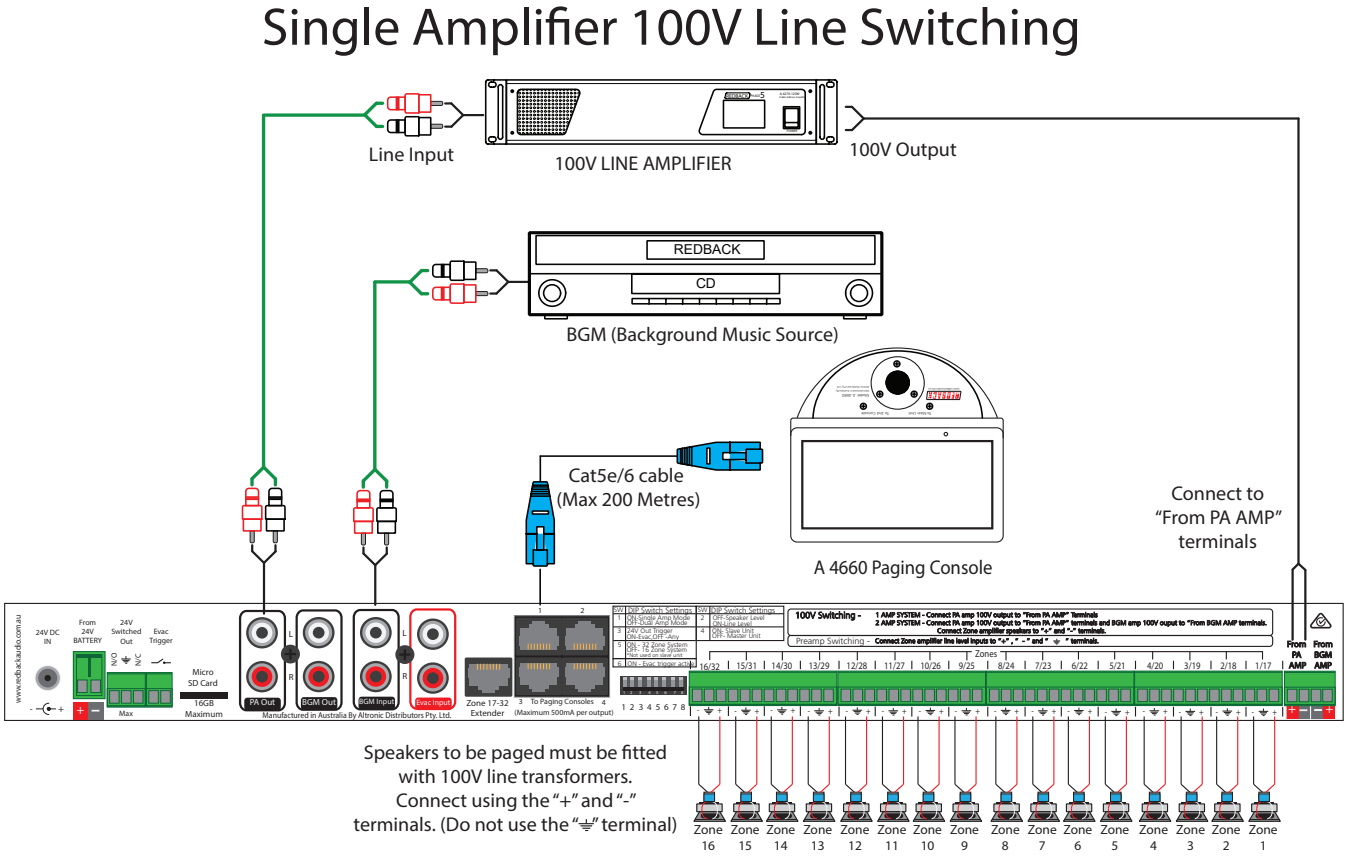


Fig 2.1

2.2.2 TWO AMPLIFIER 100V LINE SWITCHING

A two amplifier system uses dedicated amplifiers for both the background music and the PA paging. This setup mutes background music to only those zones which are being paged.

NOTE : Before turning the unit on make sure the dip switches are set correctly.
For two amp switching of 100V speaker levels, Dip switch 1 should be set to "OFF" and dip switch 2 should be set to "OFF" (see 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.

Each zone requiring background music must be switched "ON" from the "Zone Background Music Selector" switches on the front of the A 4580. (refer to section 1.4)

A background music source such as a CD player is connected to the BGM input (RCA connectors) on the rear of the A 4580.

Paging Amplifier Connections
The paging amplifier audio connection is from the "PA Out" RCA sockets on the rear of the A4580. This is a line level signal and must be connected to a Line/Aux input on the amplifier.
The paging amplifier 100V output must be connected to the "From PA AMP" terminals on the rear of the A 4580.

Background Music Amplifier Connections
The background music amplifier audio connection is from the "BGM Out" RCA sockets on the rear of the A 4580. This is a line level signal and must be connected to a Line/Aux input on the amplifier.
The background music amplifier 100V output must be connected to the "From BGM AMP" terminals on the rear of the A 4580.

The zone 100V speakers are wired to the "+" and "-" terminals only on the rear of the A 4580 as shown in Fig 2.2. (Note: the earth connection is not used for 100V switching system. This terminal is used when switching line level signals.)

Two Amplifier 100V Line Switching

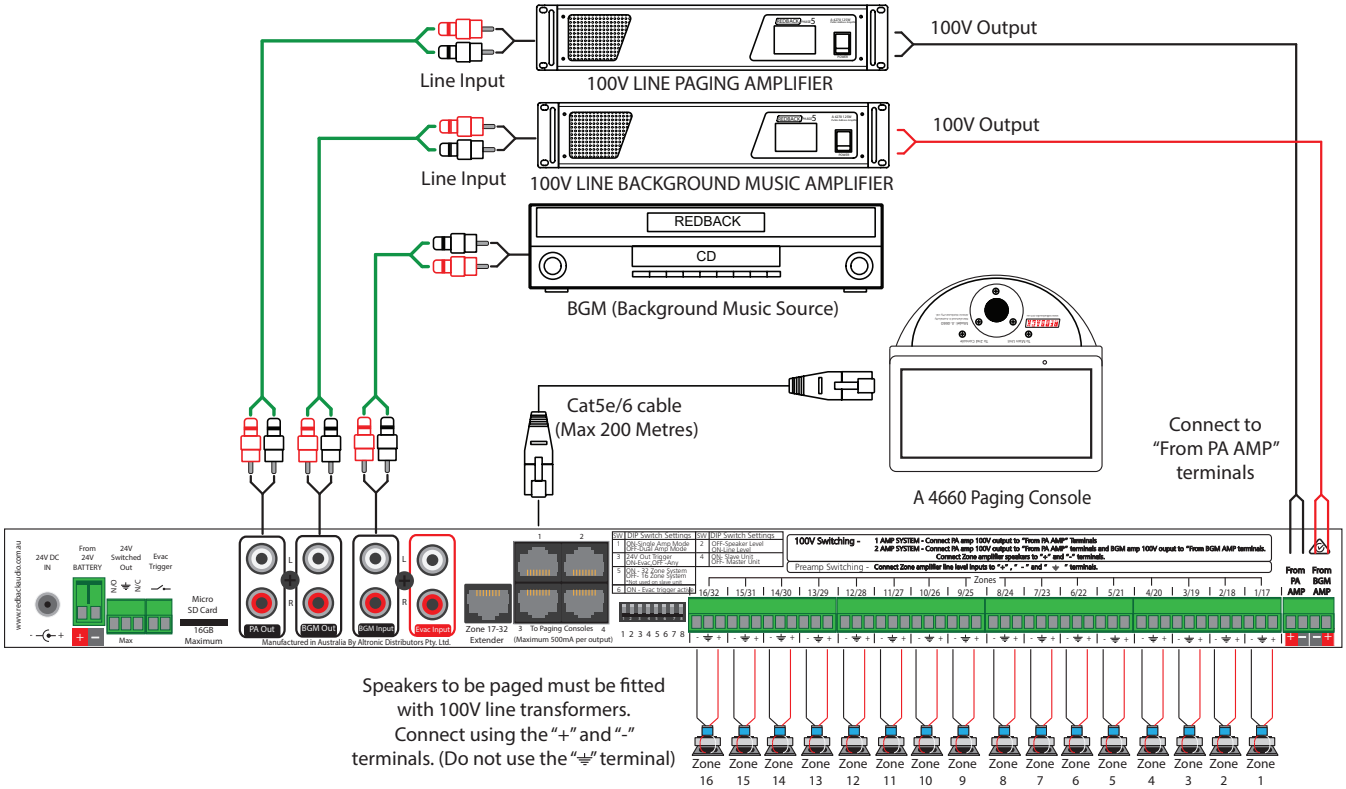


Fig 2.2

2.3 SWITCHING LINE LEVELS

The A 4580 can also be used to switch line level signals. Amplifiers are not connected to the PA OUT or BGM OUT of the A 4580. Instead each zone has its own dedicated amplifer which can then feed multiple areas. Background music and the evacuation tones are still supplied by the A 4580 and are fed into each zone amplifier. Each zone amplifier can still have its own local microphone or background music.

NOTE : Before turning the unit on make sure the dip switches are set correctly.
Dip switch 2 should be set to "ON" (see Dip switch settings)
Dip switch 1 will be disabled if dip switch 2 is set to "ON"

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

This setup mutes the background music (supplied by the A 4580) to only those zones which are being paged.

Each zone requiring background music must be switched "ON" from the "Zone Background Music Selector" switches on the front of the A 4580. (refer to section 1.4)
A background music source such as a CD player is connected to the BGM input (RCA connectors) on the rear of the A 4580.

The zone output terminals on the rear of the A 4580 are connected to the zone amplifier inputs. The "+","-" and earth terminals are all used. Each zone output is a low impedance signal suitable for feeding directly into a power amplifier. As the signal is balanced the amplifier can be remotely located when connected using 2 core shielded cable. This enables the amplifier to be located up to 100m from the A 4580 switch box.

Individual Zone Amplifier Preamp (Low Level) Switching

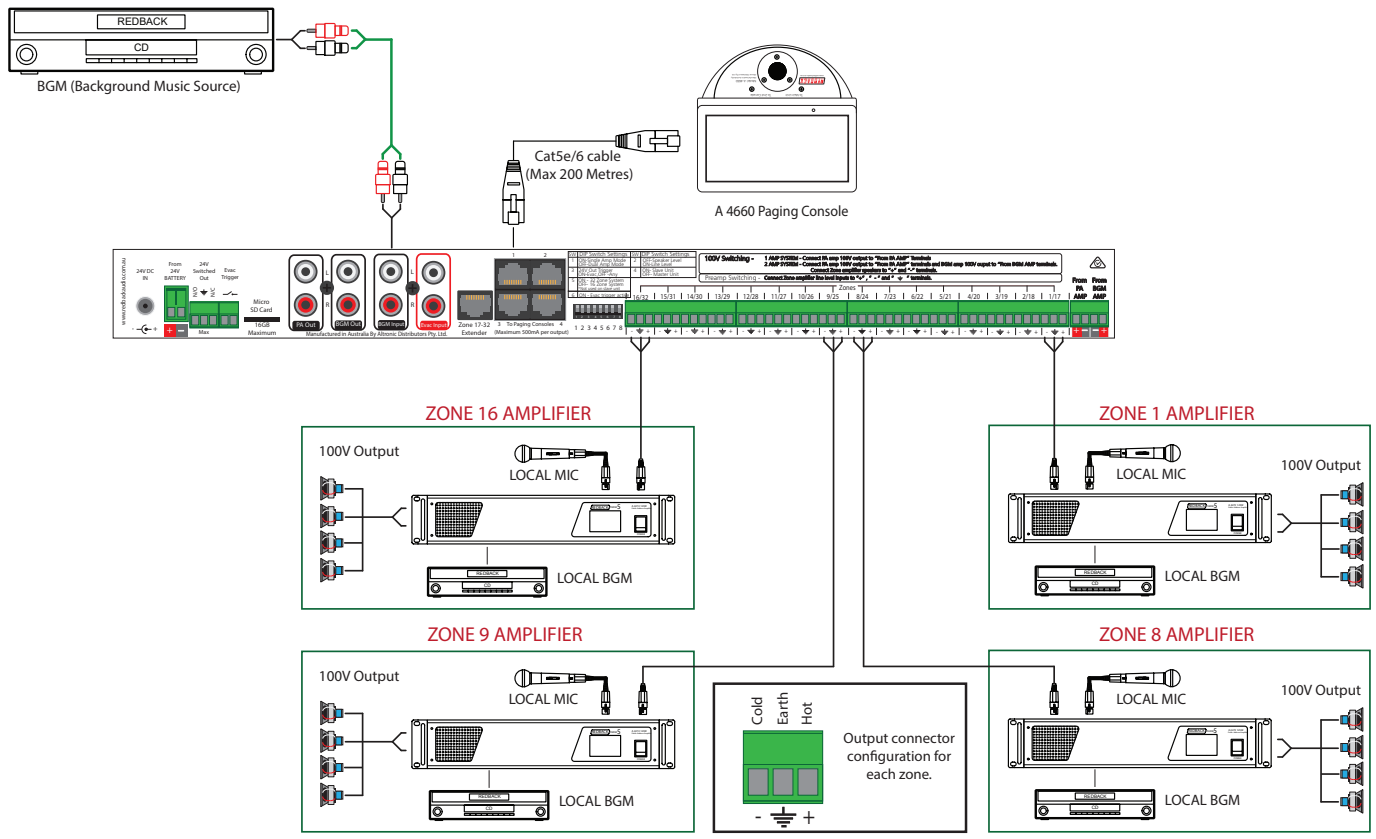


Fig 2.3

2.4 EVAC INPUT

There are two forms of evacuation triggering available on the A 4580.

The first method for triggering is a closing contact on the Evac Trigger terminals on the rear of the unit (see Fig 2.4).
Note: DIP switch 6 must be set to ON.

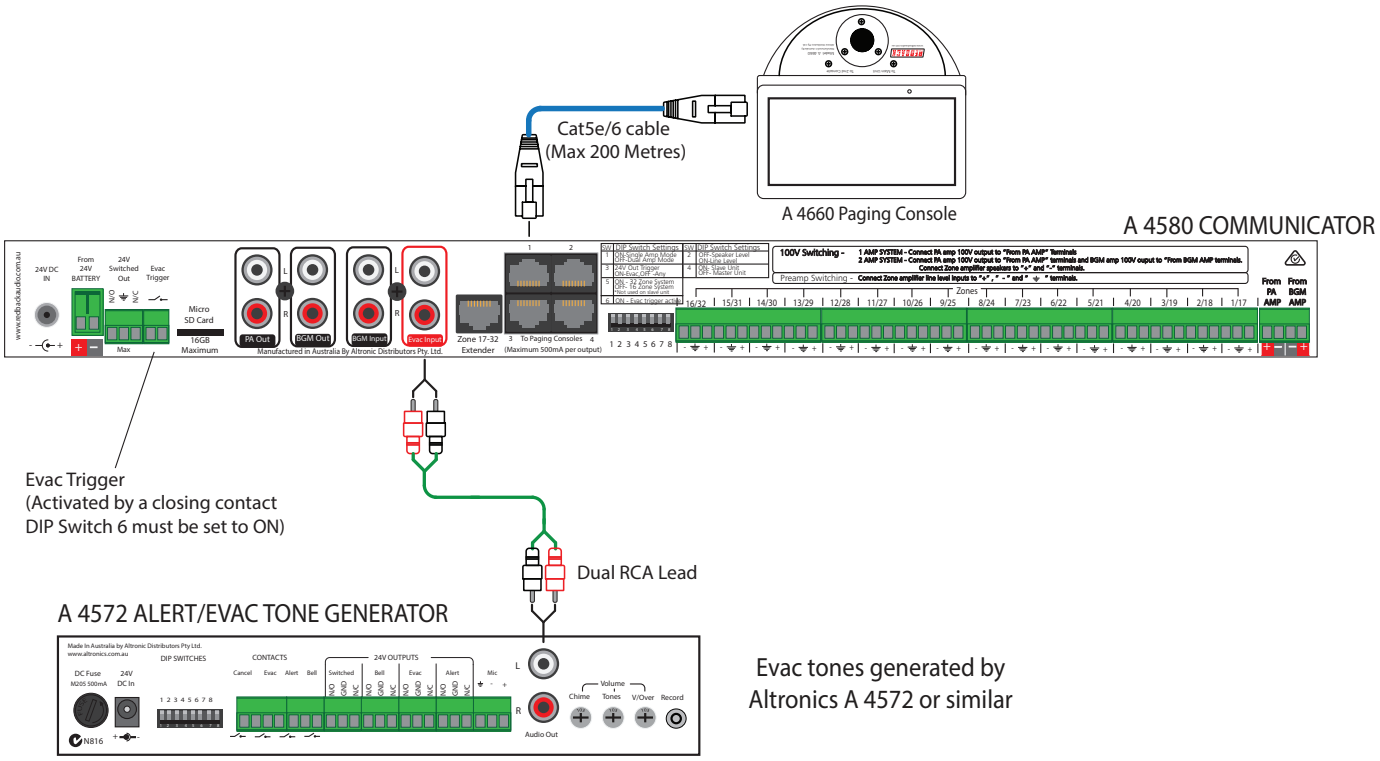
The second method for triggering is a VOX controlled input in the form of a dual RCA audio input on the rear of the unit labelled Evac Input (see Fig 2.4). The trigger level is adjusted via the evac vox sensitivity control of the front of the A 4580.

Once either evac input is triggered, background music will be muted to all zones and the audio present at the Evac input will be piped to all zones.

Paging from an A 4660 paging console will over-ride the evac input.

When the evac input is active the "Evac active" led on the front of the unit will illuminate.

EVACUATION INPUT TRIGGERING VIA EVAC INPUT



The volume of the Evac input is adjusted via the trimpot on the front of the unit labelled "Evac Vol".

Fig 2.4

2.5 ALL CALL INPUT

The EVAC Input (discussed in section 2.4) which is primarily aimed for use as an Evac input, can also be used as an All Call Input from any line level input source.
This could be used for ALL CALL telephone paging when used with a suitable Line Isolation Unit.

NOTE: The volume of the Evac input is adjusted via the trimpot on the front of the unit labelled "Evac Vol". The trigger level is adjusted via the evac vox sensitivity control of the front of the A 4580.

2.6 24V DC SWITCHED OUTPUT

A switched output has been provided to allow for the connection of external 24V DC operated fixtures.

This is set by Dip Switch 3 (see section 1.5)

The 24V DC output can be used to operate attenuators fitted with override relays, evacuation strobes (with the addition of external relays and DC supplies), or any other fire evacuation equipment operated of 24V DC. It is important that any product connected to the 24V DC output not draw more than 100mA maximum.

This output can be set to be activated any time any zone is paged or any form of evac input is triggered (see Fig 2.5a).
"or"
only when the Evac input has been triggered (see Fig 2.5b).

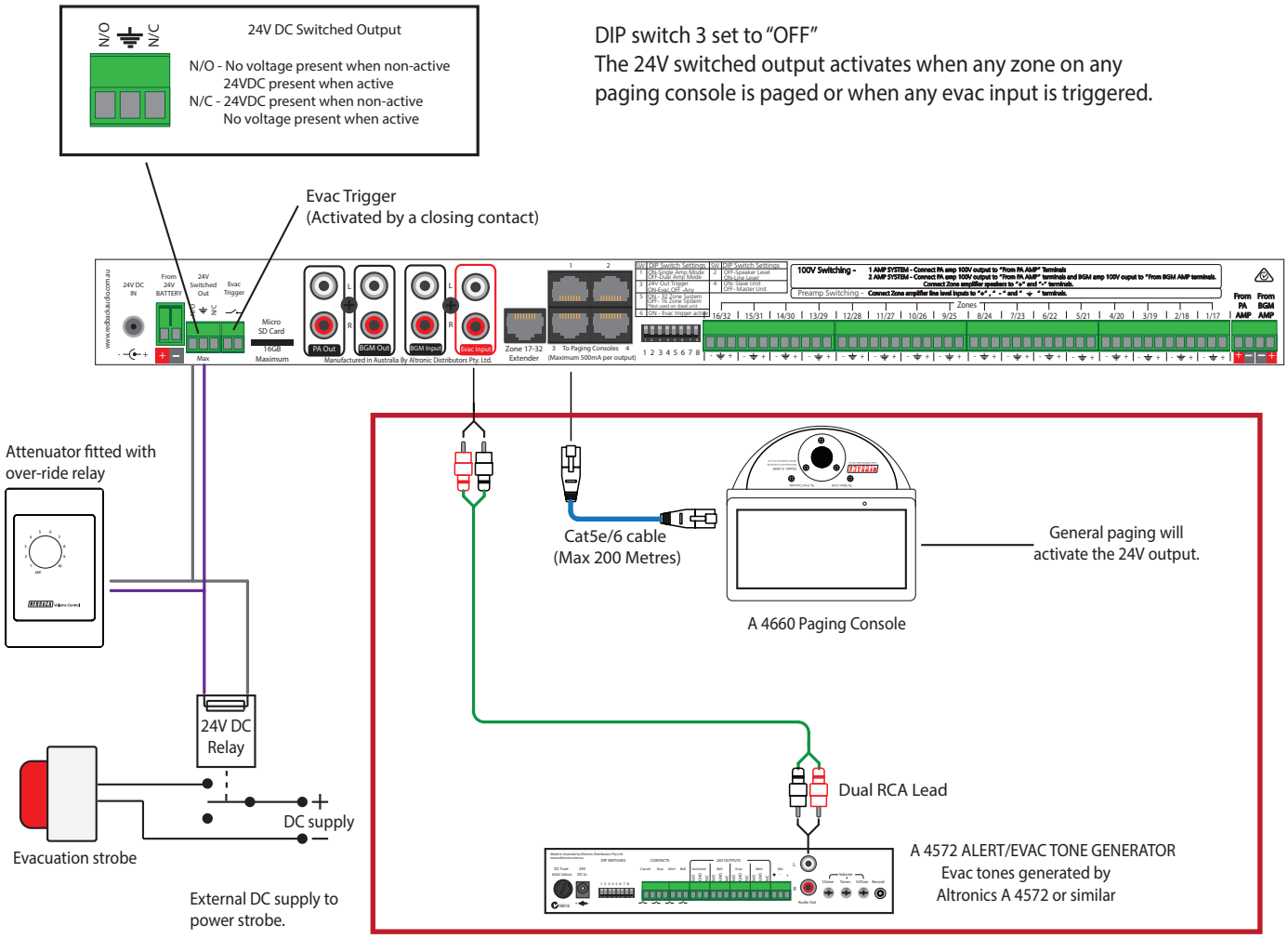


Fig 2.5a

The 24V DC Switched output terminals operate as follows.

N/O - No voltage present when non-active, 24VDC present when active

N/C - 24VDC present when non-active, No voltage present when active

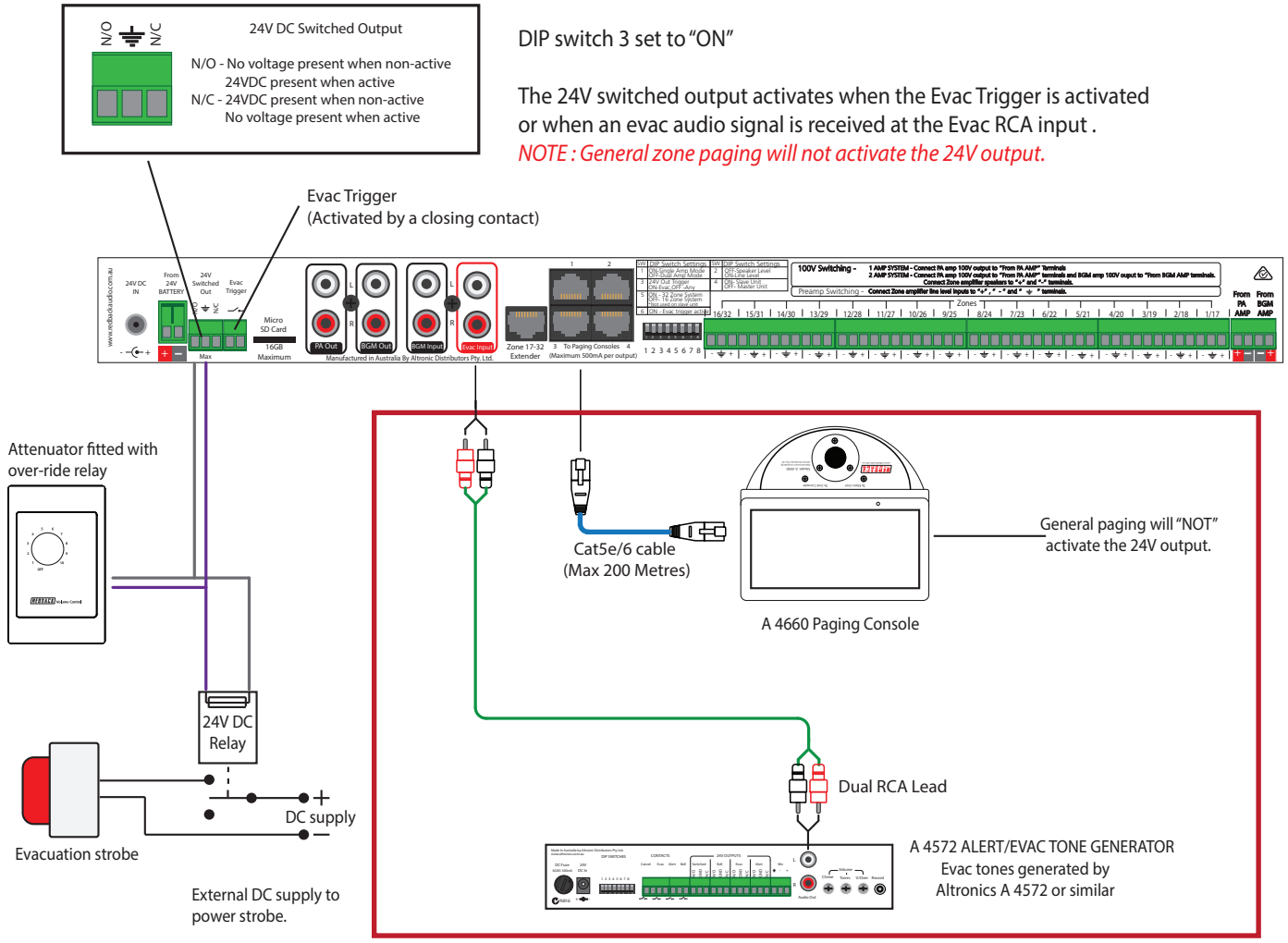
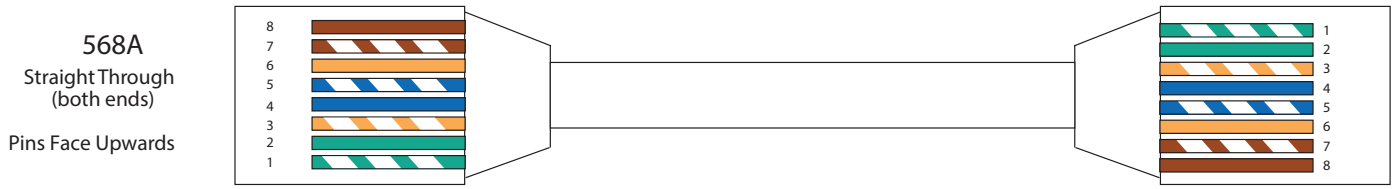


Fig 2.5b

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

System components are connected using "pin to pin" configuration RJ45 data cabling as shown below. 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.



3.0 A 4660 PAGING CONSOLE

The A 4660 paging console provides up to 32 zones* of paging to the A 4580 audio switcher. (* 17-32 zones only available when a second A 4580 is connected to the system).

The consoles can be used for multi zone paging with the facility to store and recall multiple zones to a single button. The zones and re-call functions can be labelled via the menu. Example might be board room as a zone label and "sales" as a recall label. An installer label can also be displayed for service calls etc.

A maximum of 8 paging consoles can be connected to the A 4580 at the same time. These work in a "first in, best dressed" arrangement. A maximum of two consoles can be cascaded together and then wired back to one of the four paging console connection ports on the rear of the A 4580.
Note: For long cable runs or when cascading consoles, Redback® A 4658 power injectors may be required.

Each unit must be assigned a unique address which is set when the A 4660 is first initialised, or it can be re-assigned by accessing the Factorty Reset option (see section 3.1.1). The address must match the output port number on the rear of the A 4580 (refer to figures 3.6 and 3.7 for more details).

Features

- Multi zone paging.
- Recall multiple zones with a single button press.
- Labelling of zones and installer label.
- Pre and post announcement chimes.
- Backlight and timeout adjustments
- Microphone gain and AGC adjustment

3.1 A 4660 SETTINGS MENU

The settings menu can be accessed using the icon on the top left of the screen. Once in this menu the following screen will be displayed.

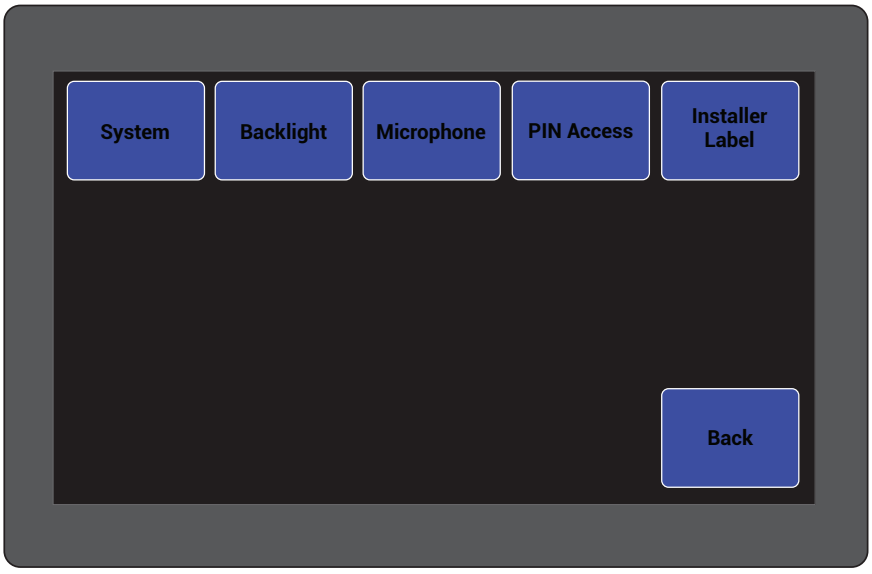


Fig 3.1 - Console Settings Screen.

3.1.1 System Settings

The System settngs screen is shown in figure 3.2.

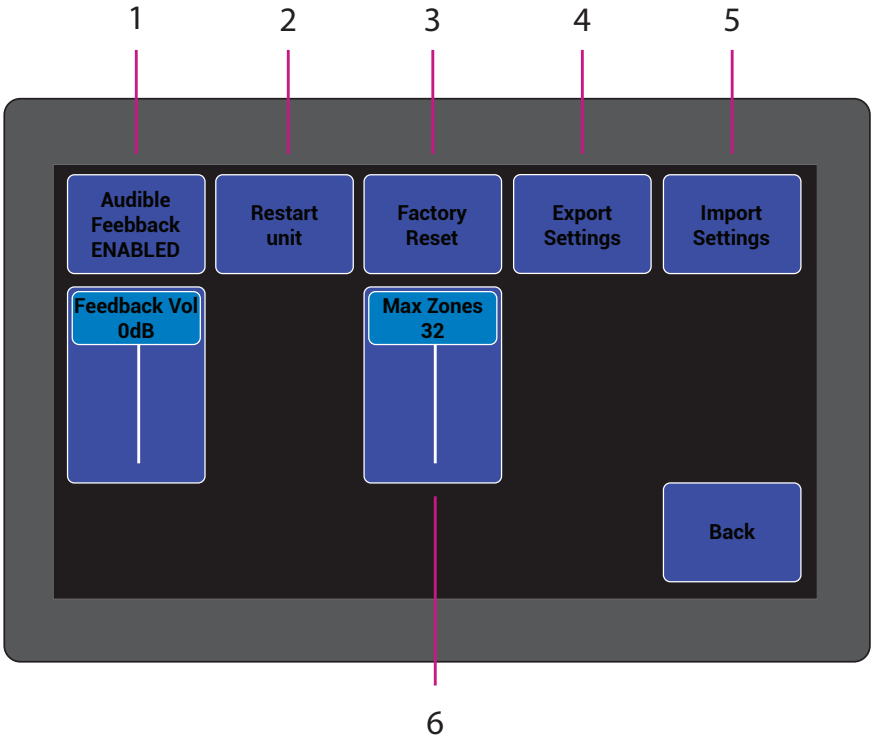


Fig 3.2 - System Settings Screen.

1 **Audible Feedback** - Allows you to enable/disable the audible feedback (in built speaker) on button presses and set the volume. Press the button to enable/disable and use the slider below to adjust the feedback volume.

2 **Restart unit** - This will cycle power to the A 4580 and re-start the unit. Handy if the unit is locked away. (Note: If two A 4580's are connected for a 32 zone system, both units will re-start).

3 **Factory reset** - This will reset the unit back to it's default settings. This option is also required to re-assign the paging console address (Press the factory reset button, tap confirm and a prompt will appear for the units address. Select the required address (this must match the output port of the A 4580). If any settings need saving before the factory reset, use the Export Settings option below.

Note: Each console must have a unique address or the system will not operate correctly.

4 **Export Settings** - This feature allows the settings of the unit to be transferred to another unit or kept as a back up. Handy if the unit's address needs to be re-assigned.

Simply insert a Micro Sd card into the unit and follow the prompts.

5 **Import Settings** - This feature allows the settings of the unit to be imported from another unit. Insert a Micro SD card and follow the prompts.

6 **Set Max Zones** - This sets the number of zones displayed on the main screen. Move the slider to display the number of zones from a minimum of four zones up to a maximum of 32 zones in multiples of 4.

(Note: A second A 4580 is required for zones greater than 16).

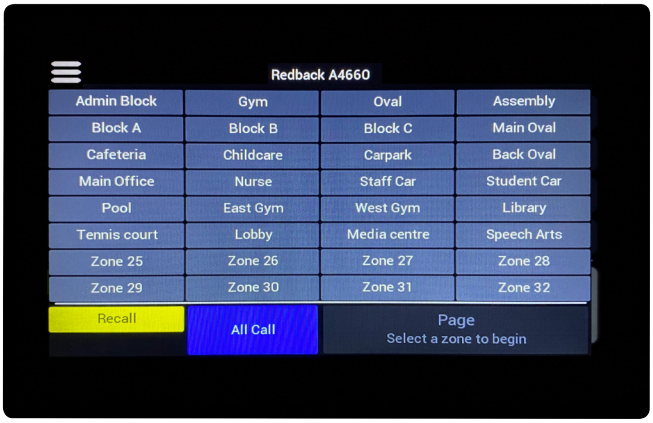


Fig 3.3 - Example of a 32 Zone Screen.

3.1.2 Backlight Settings

Press the "backlight" button to display the screen shown in figure 3.4.

There are two levels of screen brightness which come into effect, when the screen hasn't been touched for a period of time set by the user.

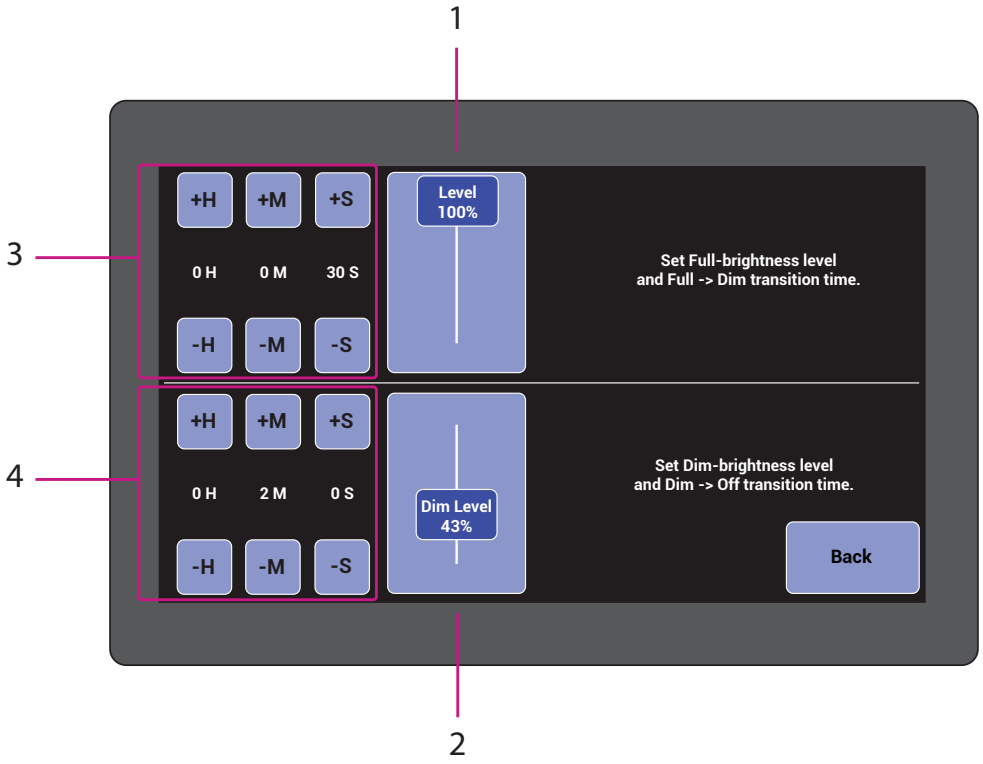


Fig 3.4 - Backlight Settings Screen.

This menu screen allows the user to select the active screen brightness level, the dimmed brightness level and timeout periods for the transition from active screen mode to dimmed mode, and the transition period from dimmed mode to screen off mode.

1 **Active Screen Brightness Level** - Use this slider to adjust the brightness level of the active screen.

2 **Dimmed Screen Brightness Level** - Use this slider to adjust the brightness level of the dimmed screen

3 **Active Screen to Dimmed Mode transition time** - Use these buttons to adjust the timeout period to enter dimming mode (set to 0 for the screen to be remain always on).

4 **Dimmed Mode to screen Off transition time** - Use these buttons to adjust the timeout period from dimmed screen mode to the screen turning off completely (This is unavailable if the dimming mode is set to zero).

3.1.3 PIN Access - Set an optional access PIN preventing unauthorised access to the wallplates settings. Type in a preferred PIN and press "E" to accept. Press "C" to delete PIN digits or to reset the PIN (For access without a PIN, delete all PIN digits). Once complete press the BACK button and the change will take effect.

3.1.4 Change labels - Allows you to set and change the labels for the output zones, and also customise an installer label which is displayed on the top of the main screen.

Select the desired zone button or installer label button and then use the displayed keyboard to enter the labels.

3.1.5 Zone Lock - General paging can be blocked to any zones via this menu. Select the zones to be blocked and then press the back button. On the main screen these blocked zones will be blacked out and unavailable.

NOTE: This will only lock out zones for this console. It will not lock out the same zones from other paging consoles connected to the A 4580.

3.1.6 Microphone settings

Press the "microphone" button to display the screen shown in figure 3.5.
From this menu the chime options and action of the paging button are set.

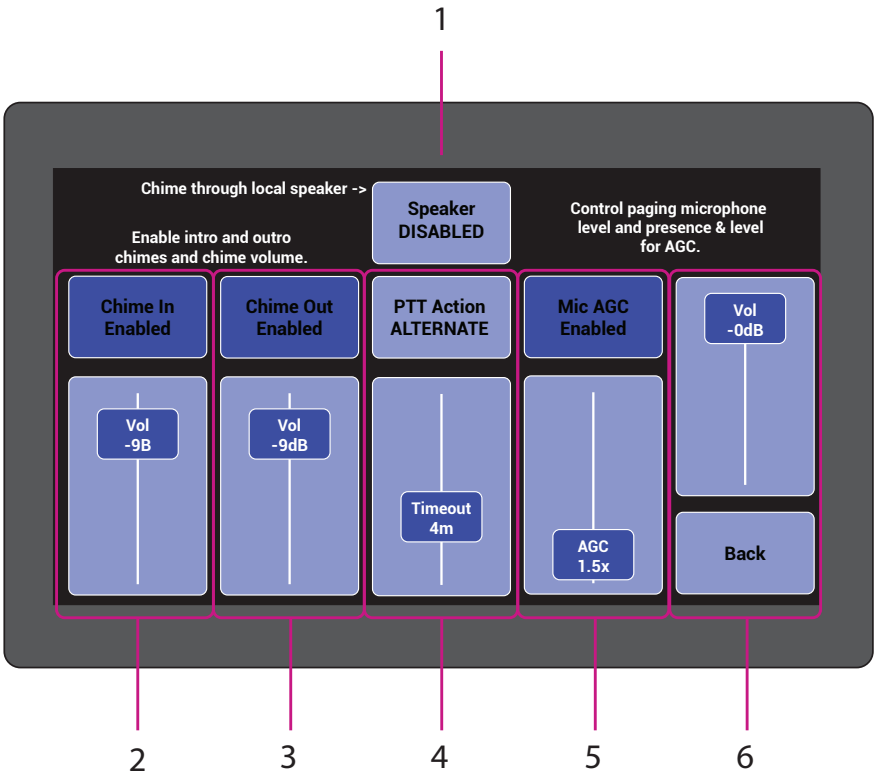


Fig 3.5 - Microphone Settings Screen.

1 **Console Speaker** - This button enables the speaker built into the A 4660. If enabled the chime will be audible from the console as well as through the paging system.

2 **Chime In** - This button allows you to enable or disable the pre-annoucement chime on the paging audio. The level can also be adjusted to suit the installation. For instance a user may require the pre-annoucement chime be louder than the normal programming.

3 **Chime Out** - This button allows you to enable or disable the post-annoucement chime on the paging audio. The level can also be adjusted to suit the installation. For instance a user may require the post-annoucement chime be louder than the normal programming.

3 **PTT Action** - This button determines the action of the paging button. If momentary action is selected the paging button will need to be held to page. If alternate action is selected the paging button needs to be pressed and released to start paging. The paging mode will stay active for the period set by the timeout, or until the paging is cancelled by the user.

5 **Mic AGC** - Allows for the microphones automatic gain control (AGC) effect to be adjusted up or down according to installation requirements. AGC allows the signal to automatically adjust to compensate for variations in level of peoples voices when making paging annoucements. Please note high levels of AGC will increase audible noise in the system while paging.

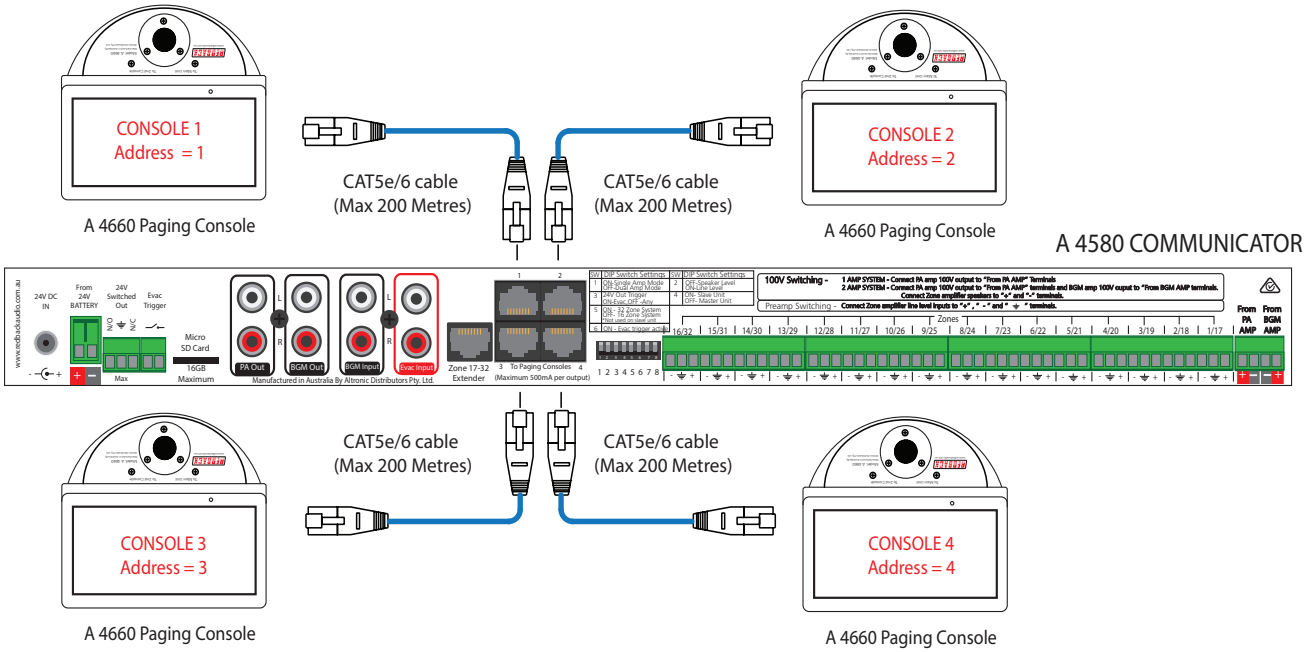
6 **Paging Level** - Adjust the paging level to suit the installation. This allows for paging to be adjusted to suit the level of programming from other sources connected to the system.3.2 A 4660 CONNECTIONS

3.2.1 Connecting the paging consoles

The consoles are connected to the A 4580 via standard Cat5e/6 cabling as shown in Fig 3.6. There are four RJ45 ports on the back of the A 4580 which can be used to connect the A 4660 paging consoles. The maximum distance between the A 4580 and a paging console is 200m.
Note: External power injectors (Redback ® A 4658) may be required if power problems are encountered from long cable runs.
Note: Power Over Ethernet or POE's cannot be used as the power injectors as they run on 48V. The A 4580 and A 4660 systems are powered by 24V DC. Use of POE's will void the warranty.

Each paging console must be assigned an address via the console menu before operation. Eg Console 1 is set to address 1 and connected to port 1 on the A 4580, console 2 is set to address 2 and connected to port 2 on the A 4580 and so on (Refer to section see section 3.1.1 for details).

Fig 3.6 shows how to connect one paging console per RJ45 port.



Note: The Console addresses must match the output port numbers they are connected to.
(Power Injectors (A 4658) may be required on long cable runs)

Fig 3.6

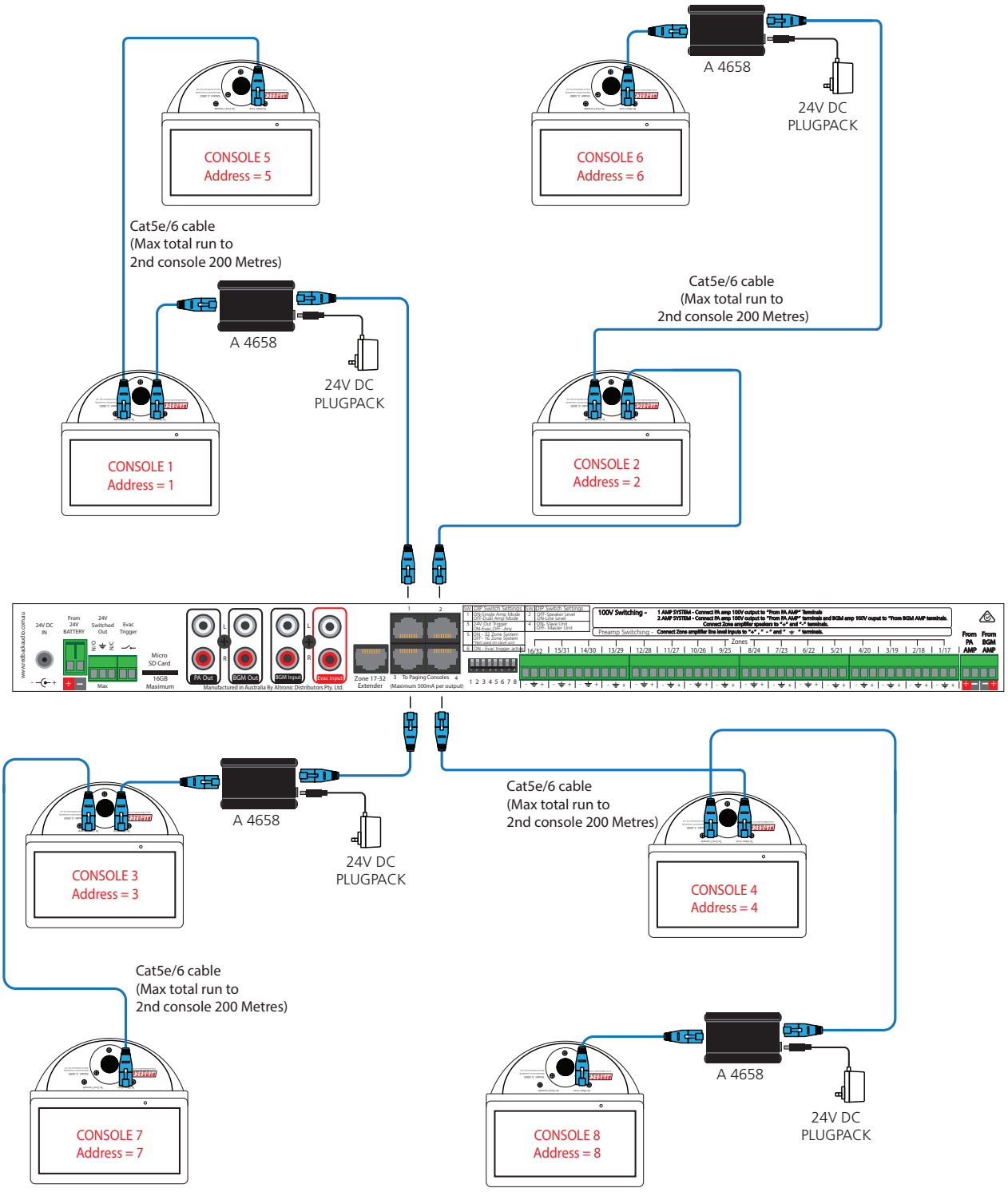
3.2.2 Cascading the paging consoles

A maximum of eight consoles can be connected to the A 4580 but only when used in a certain configuration. There are four RJ45 ports on the back of the A 4580 which can be used to connect the A 4660 paging consoles. Each port can accomodate a maximum of 2 paging consoles in a loop, in loop out configuration as shown in figure 3.7.
Consoles 1 - 4 are connected to their respective number ports. Ie console 1 to port 1, console 2 to port 2 etc. Any extra consoles are connected as shown, so console 5 to port 1, console 6 to port 2 and so on.

Note: External power injectors (Redback® A 4658) are required when cascading consoles, and the maximum cable run from the A 4580 to the second console is 200m. The power injectors can be inserted into the cable run either before the first console, or before the second console as illustrated in figure 3.7.

Note: Power Over Ethernet or POE's cannot be used as the power injectors as they run on 48V. The A 4580 and A 4660 systems are powered by 24V DC. Use of POE's will void the warranty.

Fig 3.7 shows how to connect two paging consoles per RJ45 port.

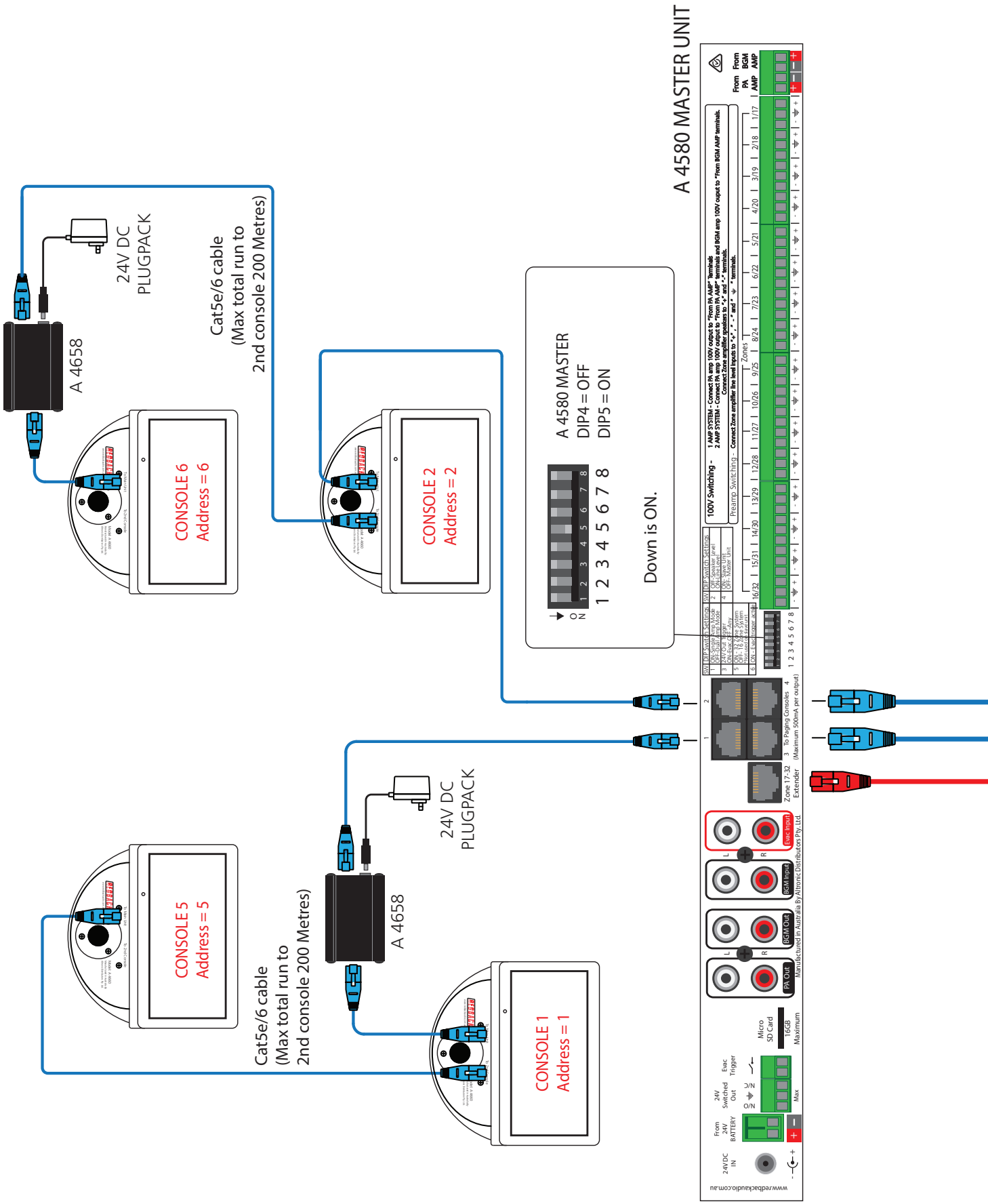


PLEASE NOTE : A maximum of 8 paging consoles can be connected to the A 4580, with a maximum of 2 paging consoles per port.
Take note of the addresses for each paging console.
(Power Injectors (A 4658) are required when cascading consoles).

Fig 3.7

3.2.3 32 Zone System

The Redback® A 4580 has a maximum of 16 zones of paging available, but this can be increased to 32 zones with the addition of a second A 4580. One of these is assigned as the master and the other as the slave.
Figure 3.8 illustrates the connection diagram to achieve 32 zones of paging.
Note: All paging consoles must be connected to the A 4580 master unit. Do not fit any consoles to the slave unit.


A 4580 MASTER UNIT
A 4580 MASTER
DIP4 = OFF
DIP5 = ON
1 2 3 4 5 6 7 8
Down is ON.
CONSOLE 6
Address = 6
CONSOLE 2
Address = 2
CONSOLE 5
Address = 5
CONSOLE 1
Address = 1
A 4658
24V DC
PLUGPACK
Cat5e/6 cable
(Max total run to
2nd console 200 Metres)
Cat5e/6 cable
(Max total run to
2nd console 200 Metres)
A 4658
24V DC
PLUGPACK
100V Switching -
Preamp Switching -
Zones
From PA AMP
From BGM AMP
To Paging Consoles
Zone 17-32 Extender
PA Out
BGM Out
BGM Input
Evac Input
24V DC IN
From 24V BATTERY
24V Switched Out
Evac Trigger
Micro SD Card
16GB Maximum
Manufactured in Australia By Altronic Distributors Pty. Ltd.
www.redbackaudio.com.au

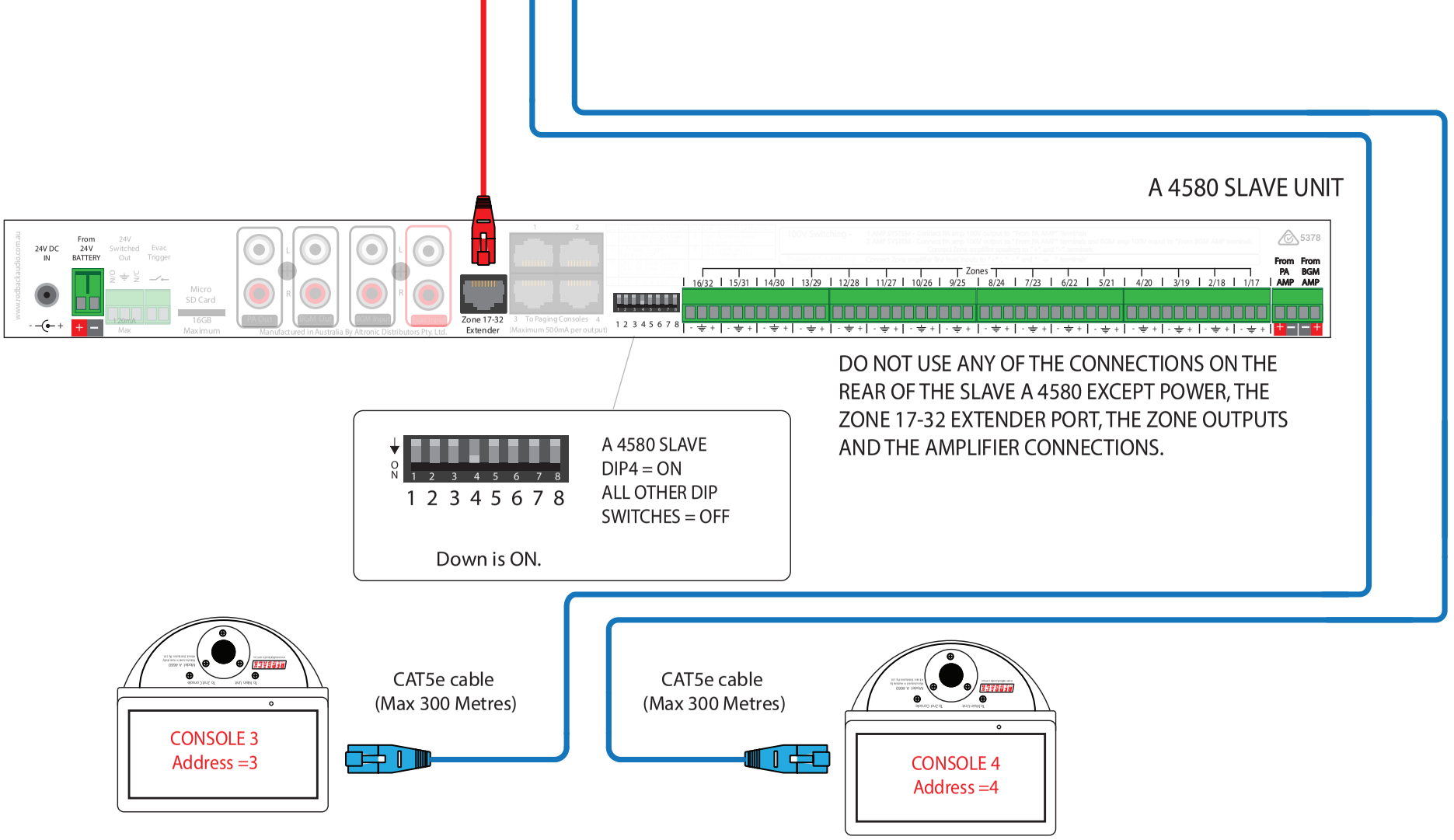


Figure 3.8

In order to be able to page to 32 zones , two A 4580 switching units are required, one of which is the master unit and the other is the slave.
The master and slave options are set by the DIP switches on the rear of the A 4580 units (refer to the DIP Switch 4-5 settings on pg 7). The master A 4580 has DIP switch 4 set to OFF and DIP switch 5 set to ON. The Slave A 4580 has DIP switch 4 set to ON.
All paging consoles must be connected back to the master A 4580 unit. Connection is made between the Master A 4580 and the Slave A 4580 via a Cat5e/6 lead which connects between the (Zone 17-32 Extender) ports on both units. Please note : a maximum of 8 paging consoles can be connected to the a 4580 (with a maximum of 2 paging consoles per port).
Note: External power injectors (Redback® A 4658) are required when cascading consoles, and the maximum cable run from the A 4580 to the second console is 200m. The power injectors can be inserted into the cable run either before the first console, or before the second console as illustrated above.

3.3 A 4660 PAGING

Multi-zone paging

Paging is achieved by pressing the numbered button of the zone required. The button will illuminate. Hold down the page switch and speak into the microphone. Note: a zone that is blacked out has general paging blocked (Refer to section 3.1.5).
To page to multiple zones, press the buttons for the desired zones. Multiple buttons will illuminate. Hold down the page switch and speak into the microphone.
If the Pre Chime has been enabled this will play before the microphone becomes active. When paging is completed the Post chime will play if it has been enabled.

Store & recall groups of zones

Two function keys labelled store and recall may be used to program groups of zones into a single number recall.
To store a group of zones, **s**elect the zones you wish to group together. Once the desired zones are selected, press store. You can now assign a button and a label using the keypad displayed.

To recall zones ,press the recall button. Any buttons which are programmed with groups of zones will illuminate. Select one of the illuminated buttons to recall. The zones stored in this group will then illuminate automatically.
Hold down the page switch and speak into the microphone to page to the selected zones.

Paging Console Busy

If the system has more than two A 4660 paging consoles connected, there will be times when both units may be needed at the same time. If one of the paging consoles is in use, the second console will be notified,the busy LED will illuminate and a warning message will be displayed.

4.0 TROUBLE SHOOTING

4.1 SYMPTOMS AND REMEDIES

SYMPTOMS	REMEDIES
A 4660 doesn't power up	• Check cable connections. • A Redback® A 4658 power injector may be required if the cable run is over 100m. (Do not use a POE injector instead) • A Redback® A 4658 power injector is required if consoles are cascaded (Do not use a POE injector instead)

5.0 FIRMWARE UPDATES

It is possible to update the firmware for the A 4580 by downloading the relative update version from www.altronics.com.au or redbackaudio.com.au if available.
To perform an update, follow these steps.

1) Download the Zip file from the website.
2) Remove the Micro SD card from the rear of the A 4580 and insert it into your PC.
3) Extract the contents of the Zip file to the root folder of the Micro SD Card.
4) Rename the extracted .BIN file to update.BIN.
5) Remove the Micro SD card from the PC following windows safe card removal procedures.
6) With the power turned OFF, insert the Micro SD card back into the A 4580.
7) Turn the A 4580 ON. The unit will check the Micro SD card and if an update is required the A 4580 will perform the update automatically.

6.0 SPECIFICATIONS

A 4580 Control Unit

Paging console inputs:	4 x RJ45 8P8C
Data transmission:	Cat5e cabling max 300m
Front panel controls:	Mic level control, BGM (background music) level control, zone BGM selection switches, Evac vox level ,Evac volume
Front panel indicators:	Mic active,Evac active
Rear panel controls:	
BGM (background music) input:	Dual stereo RCA's (nominal 1V)
Evac input:	Dual stereo RCA's (nominal 1V)
BGM (background music) output:	Dual stereo RCA's (nominal 1V)
PA (public address) output:	Dual stereo RCA's (nominal 1V)
24V DC Switched output:	Euroblock terminal
Zone output connectors:	Euroblock terminal
Power connection (24V DC):	Euroblock terminal
Protection (DC):	Internal 2A polyswitch
Dimensions:	482W x 175D x 44H mm
Weight:	2.5kg