



Audio Paging Systems

Model: ENBS15, TAPA01, TAPA02, TAPA03

Admin Guide

Installation | Configuration | Support | Maintenance | Use



Code Blue[®]

800.205.7186 • www.codeblue.com



WARNING

ONLY QUALIFIED PERSONNEL SHOULD INSTALL THESE UNITS. THE INSTALLATION SHOULD CONFORM TO ALL LOCAL CODES. IN SOME COUNTRIES, A CERTIFIED ELECTRICIAN MAY BE REQUIRED.

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2 Introduction

Thank you for choosing the **Audio Paging Systems** option for your Code Blue application. **Audio Paging** is a centralized amplifier-based system designed to provide voice paging and broadcast alarm tones during emergencies. The system can transmit alarm tones and voice messages in a reliable and safe manner from a central location to all or selected areas of the facility via loudspeakers. The entire operational area can be divided into one or more zones, which can be accessed independently either for announcements or alarm broadcasting. Loudspeakers are installed in these zones. There are no limitations to the number of zones in a system or number of loudspeakers in each zone. The system is designed to offer clear reproduction of sound and intelligibility, even in high noise areas.

This manual contains all of the Code Blue Audio Paging information needed on the CB 1 series with Audio Paging, Solar Powered Audio Paging Top, CB 5-s with Audio Paging, WM-180 Audio Paging System, CB 2-ap and 360° Audio Paging retrofit top. This manual contains a general overview of the Code Blue Audio Paging options and its application, installation, and wiring.



CB 2-ap



360° Audio Paging System
for CB1 & CB5 Series



WM-180 Wall Mounted
180° Audio Paging System



360° Audio Paging System
for CB 1-w Solar Tower



3 Current Audio Paging System Options:

CB 1-e & CB 1-s Towers with 360° Audio Paging Top - Outdoor

- 12.75" diameter towers; Analog or IP Speakerphones
- An excellent choice when instant mass notification of a geographic area is essential. The unique six-speaker design delivers optimal audio source dispersion utilizing state-of-the-art amplifiers and horn array.

CB 1-w Solar Powered Tower with 360° Audio Paging Top - Outdoor

- 12.75" diameter towers; IP Speakerphones
- Operating exclusively on a solar powered system, the addition of a Solar Audio Paging Top to a CB 1-w tower brings the capability of mass notification to locations that were once not possible.

CB 2-ap with Audio Paging System - Indoor & Outdoor

- Wall or pole mount; Analog or IP Speakerphones
- The perfect choice for parking decks, entrances, hallways and public transit centers where mass communication is a must-have.

CB 5-s with 360° Audio Paging Top - Outdoor

- 8.625" diameter towers; Analog or IP Speakerphones
- Designed as an emergency communication system to deliver maximum audio clarity and range to ensure notifications are accurately broadcast to your intended audience.

WM-180 Wall Mount Audio Paging unit - Indoor & Outdoor

- Wall or pole mount option remotely adds audio paging capabilities to new or existing CB units.
- By adding an analog or IP controller board, you enable the WM-180 to be directly managed by Code Blue's Blue Alert® software, granting the user messaging options. The controller also monitors the amplifier and speaker for various failures, which are reported to the appropriate maintenance personnel, and allows the user to call a single WM-180 unit for a targeted message.



4 Getting Started

Important Notes:

- EIA/TIA, ANSI, CSA and BICSI cabling or similar standards shall be adhered to for proper operation of Code Blue communication devices connected to copper or fiber infrastructures communications cable and electrical cable in the same conduit is not an acceptable installation and shall not be supported. Analog phones require a minimum of 23mA for proper operation (26-29mA recommended).
- Each analog speakerphone requires its own phone line or PBX extension. Multiple units shall not be supported.
- Speakerphones require programming before operation. Consult the speakerphone's Administrator Guide for instructions.
- If you are installing IP speakerphones, please read the appropriate manuals and consult with your Network Administrator.
- Size electrical wiring based on length of run.



5 Safety Information

HAZARD LEVELS LEGEND

DANGER	Indicates a hazardous situation which, if not avoided, <i>will</i> result in death or serious injury.
WARNING	Indicates a hazardous situation which, if not avoided, <i>could</i> result in death or serious injury.
CAUTION ⚠	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates a situation which, if not avoided, could result in damage to property.
IMPORTANT	Indicates significant information that is essential for proper product functionality.
<i>NOTE</i>	Indicates useful information that helps get the most out of a product.

Safety Instructions

WARNING • Code Blue products shall be installed by trained professionals. The installation should conform to all local codes. In some countries, a certified electrician may be required.

- NOTICE** • When transporting a Code Blue product, use the original packaging or equivalent to prevent damage to the product.
- Code Blue products shall be used in compliance with local laws and regulations.
 - Store the Code Blue product in a dry and ventilated environment.
 - Do not install the product on unstable brackets, surfaces or walls.
 - Use only applicable tools when installing Code Blue products.
 - Do not use chemicals, caustic agents, steel wool or aerosol cleaners other than those tested and recommended by Code Blue.
 - Use only accessories that comply with technical specifications of the product. These can be provided by Code Blue or a third party.
 - Use only spare/replacement parts provided by or recommended by Code Blue.

Transportation

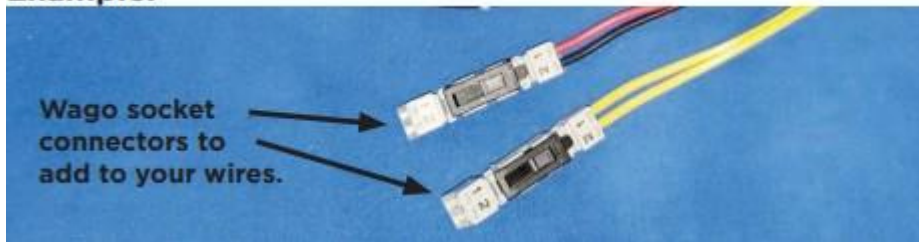
NOTICE • When transporting a Code Blue product, use the original packaging or equivalent to prevent damage to the product.



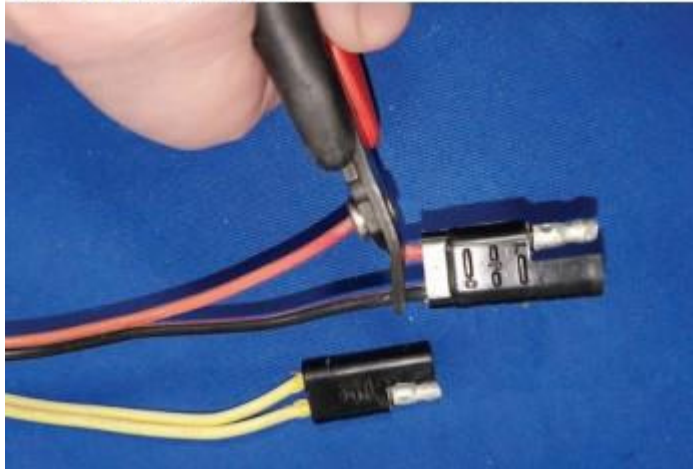
6 How to Update Connectors

As of 2020, many Code Blue products come with Wago connectors. These connectors provide ease of use and a much stronger connection. Below are the steps needed to change to the new connectors.

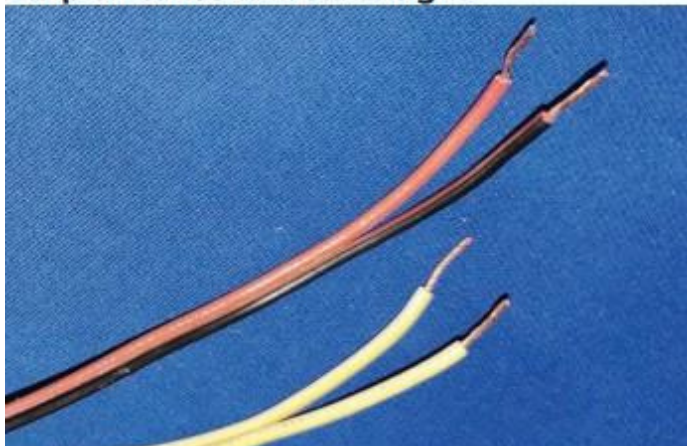
Example:



Cut off both wires.



Strip all wires and twist tight.





Place small screwdriver into square hole and push down. Insert cut wire into round hole and remove screwdriver. Repeat on the rest of the connectors.



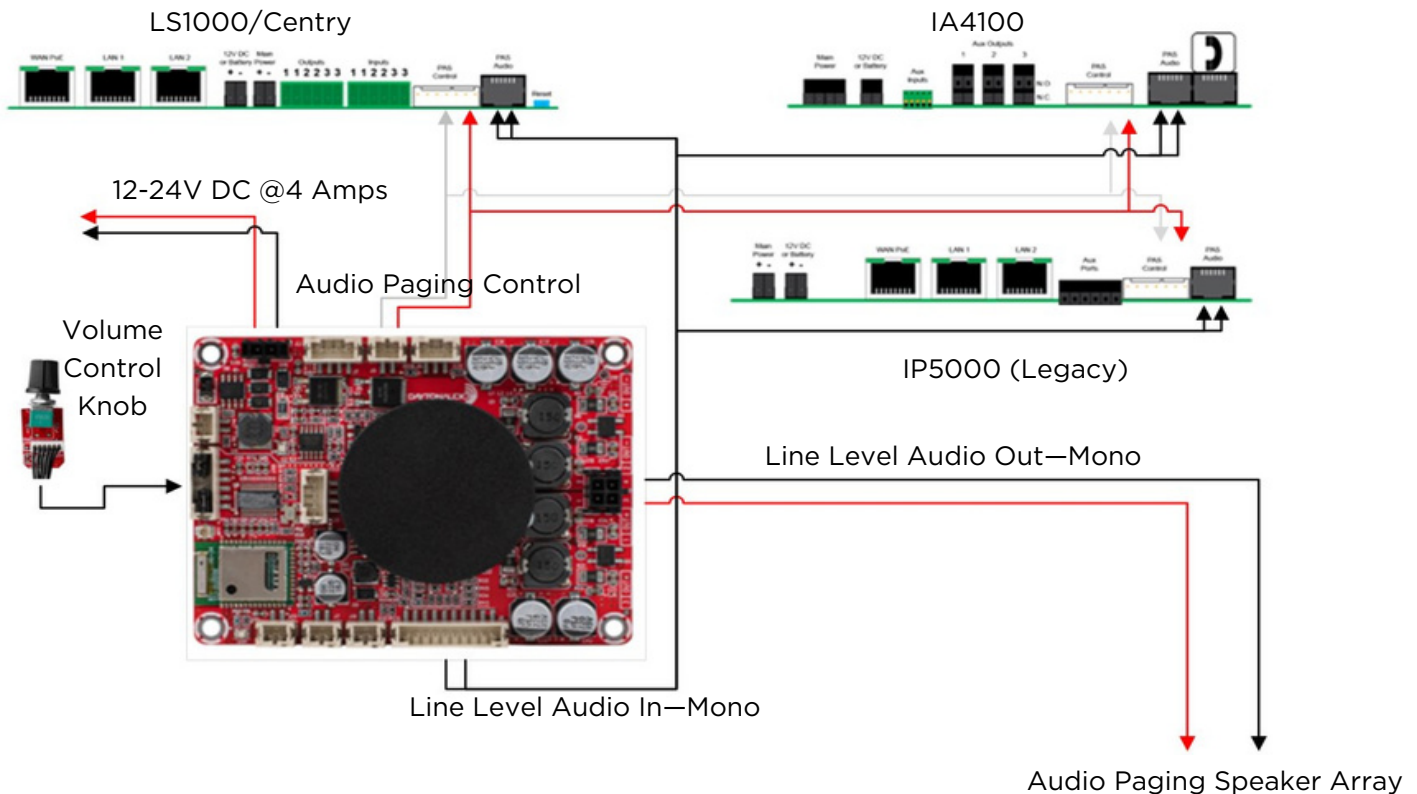
Once all connectors have been switched, you are ready to apply power.





Important Update: Audio Paging Amp

In July 2022, due to changes in the global supply chain market impacting component availability, Code Blue discontinued its use of the Audio Paging Amplifier that had been in place since 2017. This change comes with not only cosmetic differences, but technical specifications as well. You will find wiring diagrams in section 12 of this guide for both the legacy configuration and new offering. Below are helpful instructions to use when upgrading or replacing the Audio Paging Amplifier in a Code Blue unit produced before July 2022. For additional questions regarding this new amp configuration, please contact Code Blue Technical Support at technicalsupport@codeblue.com or call 800-205-7186, Opt. 3.



Upgrading from Legacy Audio Paging Amplifier:

1. Remove legacy amplifier and connecting harness.
2. New amplifier will be mounted to the back of the speakerphone with the two screws holding the back cover on.
3. Connect the Audio Paging Control Harness and Line Level Audio In(Provided with amp) to the speakerphone.
4. Connect Line Level Audio Out to the Speaker Array(Harness from amp provided).
5. Volume control knob comes pre-installed.
6. Connect Power to DIN Rail mounted power transformer leg with 5 amp fuse.

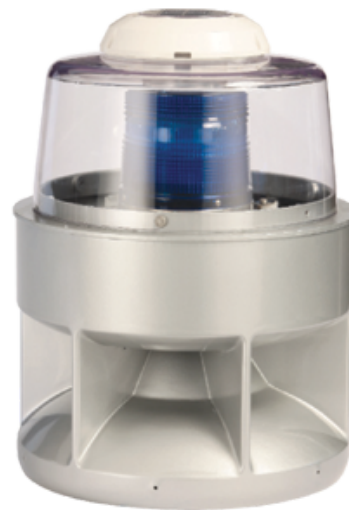
NOTE: Legacy Audio Paging Amp requires 24V AC power. **New Audio Paging Amp requires 12-24V DC.** Ensure that proper voltage is connected to new amplifier.

Important Update: 360° Audio Paging Speaker Array for CB1 Towers

In August 2023, due to changes in the global supply chain market impacting component availability, Code Blue discontinued its use of the 360° Audio Paging Speaker Array that had been in place since 2017 and installed on CB1 & CB5 tower units. This change comes with not only cosmetic differences, but technical specifications as well. You will find wiring diagrams in section 12 of this guide for both the legacy configuration and new offering. Highlighted below are the key differences between the units. For additional questions regarding this new speaker array configuration, please contact Code Blue Technical Support at technicalsupport@codeblue.com or call 800-205-7186, Opt. 3.



Current 360° Audio Paging System
for CB1 & CB5 Series - Produced after August, 2023.



Legacy 360° Audio Paging System
for CB1 & CB5 Series - Produced prior to August 2023.

	Current 360° Audio Paging System	Legacy 360° Audio Paging System
Required Incoming Voltage	12V DC @ 4 Amp	120V AC @ 4 Amp
Speaker Array Material	Carbon Steel	ABS Plastic
Impedance	8 Ohms	5.3 Ohms
Frequency Range	450 Hz - 8000 Hz	450 Hz - 7000 Hz

For full product specifications, see A&E Specifications Sheet #AE-0126.



7 Installation - Current Audio Paging Products

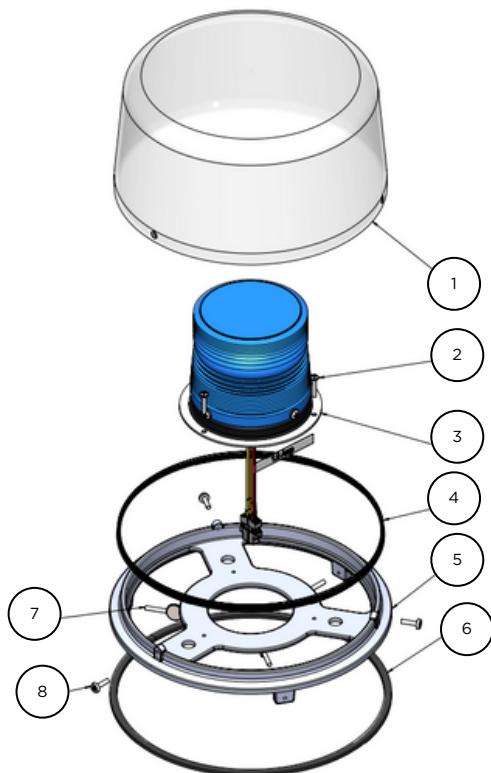
CB1 Series Towers with **Current** 360° Audio Paging Top

- **The following models are covered in the installation instructions for CB 1 Series with Audio Paging or the Current 360° Audio Paging Retrofit Kit:**
 - CB 1-e
 - CB 1-s
- **Tools Required**
 - Ladder - to reach the top of the unit.
 - Security bit - to secure the Audio Paging top to the adapter ring.
 - 6mm Allen wrench - to secure the Audio Paging adapter ring to the top of the unit.

Before You Begin: Remove power from the unit.

- **Existing Dome Top Removal** (See [Figure 1](#) below for referenced components)
 - Remove the 3 security screws securing the dome top lens to the dome top casting.
 - Locate and remove the 3 thumb screws securing the dome top casting to the tower unit.
 - Raise the dome top assembly upwards & disconnect the red/black and yellow/yellow wiring harnesses connected to the beacon/strobe mounted in the dome top assembly.

Dome Top Assembly Components



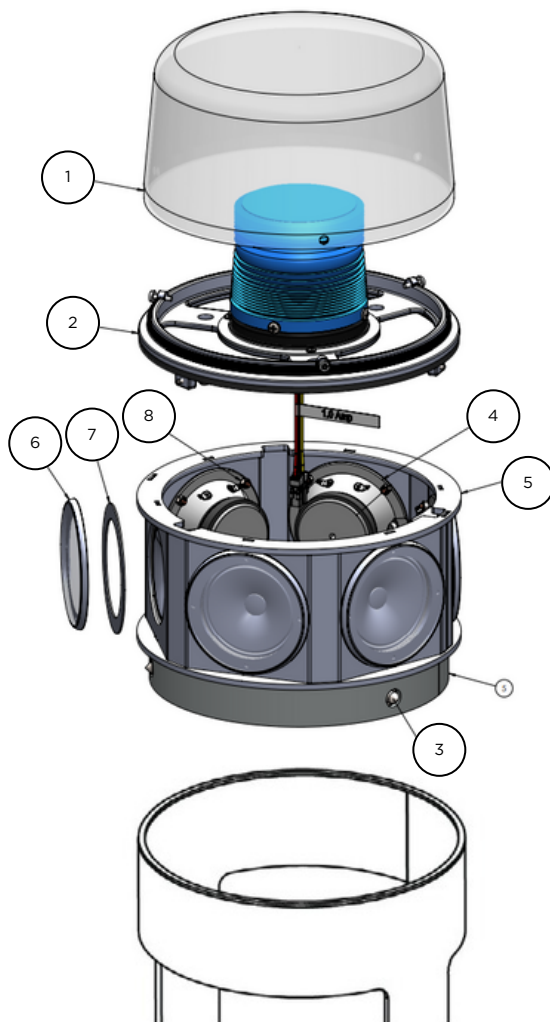
#	Component	Qty
1	Dome Top Lens	1
2	Strobe Assembly Mounting Screws	3
3	Beacon Strobe Assembly	1
4	Dome Top Tech Brush	1
5	Dome Top Casting	1
6	Dome Top Assembly Gasket	1
7	Thumb Screws	3
8	Security Screws	3

Figure 1

(Continued on next page)



- **Install 360° Audio Paging Top** (See [Figure 2](#) below for component references).
 - Insert the Audio Paging Top Housing into the CB 1 Tower.
 - Ensure the paging top is aligned properly and level. Reach through the housing, tighten the 3 set screws into the side wall of the tower using the required Allen wrench.
 - Connect all amp and lighting wiring harnesses as detailed in the Wiring Diagrams section of this Guide and the CB1 Admin Guide, based on your product's configuration.
 - After all wiring is properly and securely connected, place the beacon strobe assembly on top of the audio paging housing, making sure to properly align the dome top casting with the coordinating notches in the paging housing. Once in place, secure the beacon strobe assembly to the paging housing using the 3 thumb screws provided.
 - Place the dome top lens over the beacon strobe assembly, aligning the holes with the threaded screw holes located on the dome top casting.
 - Secure the dome top lens into place, using the 3 provided security screws.
 - Reapply power to the unit.



#	Component	Qty
1	Dome Top Lens	1
2	Beacon Strobe Assembly	1
3	Set Screws	3
4	Speaker	6
5	Audio Paging Top Speaker Housing	1
6	Speaker Grille	6
7	Nylock Nut	24
8	Speaker Gasket	6

Figure 2



CB 1-w Solar Power 360° Audio Paging Top

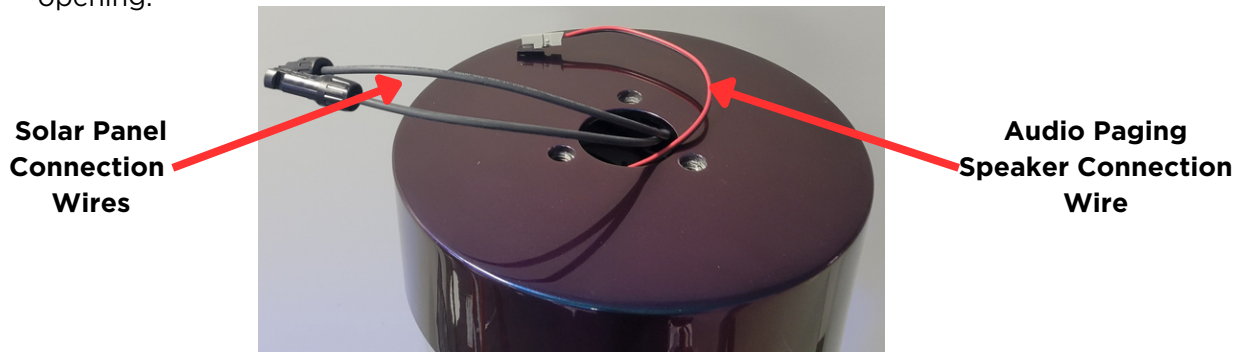
- **The following model is covered in the installation instructions below:**
 - CB 1-w Audio Paging Top (see CB 1-w Admin Guide for complete tower installation instructions)



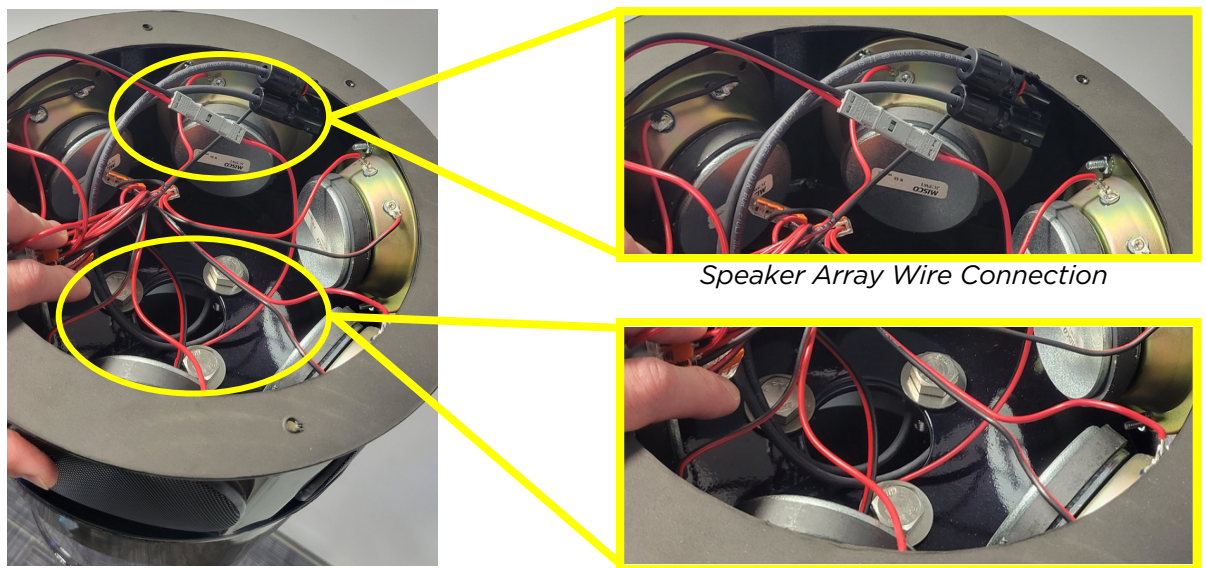
Before You Begin: Ensure power is disconnected from the battery array to the tower.

NOTE: Prior to beginning the steps below, remove the 6 bolts & washers on top of the Solar Audio Paging Array to remove the top plate. This is necessary to make the connections referenced in the following steps.

- **Fish Audio Paging & Solar Panel connection wires** - Utilizing the opening in the top of the tower (location where Solar Panel would typically be attached when installing without an Audio Paging Array), fish the connection wires through the opening.



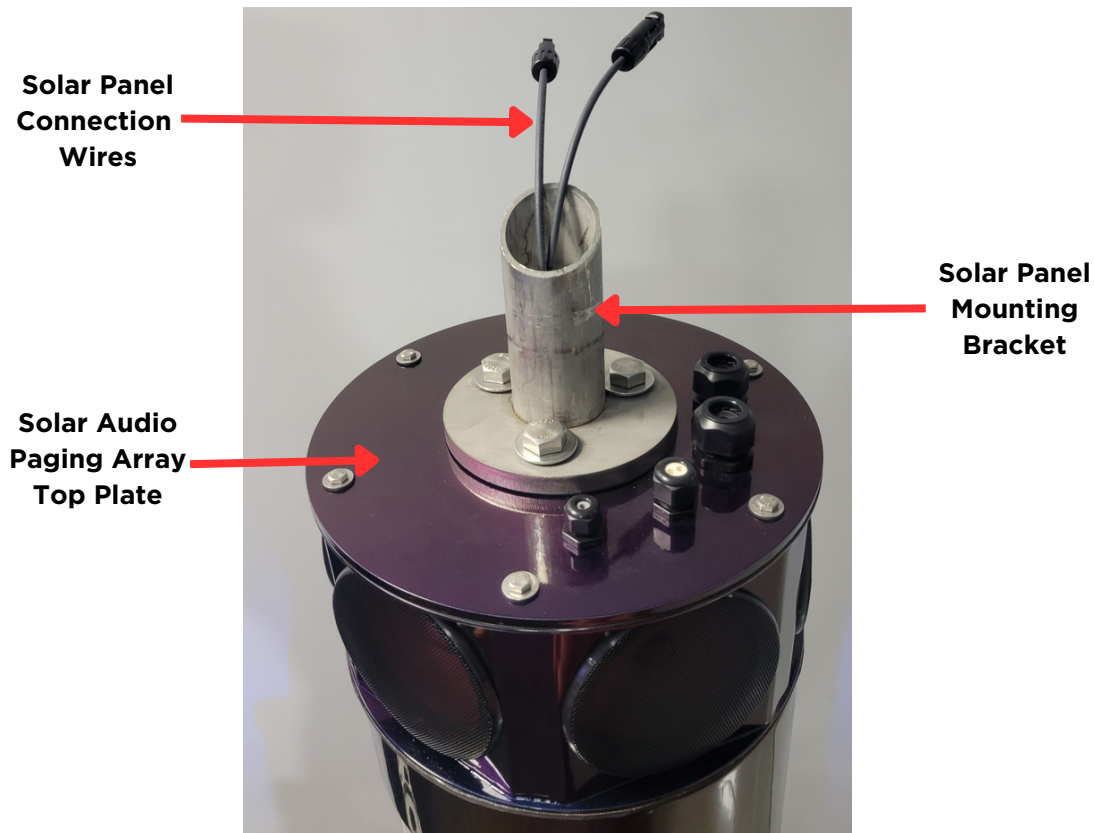
- **Position & Secure Audio Paging Array on Tower** - Place the Solar Audio Paging Speaker Array on top of the tower unit & ensure the all holes align properly. Using the provided bolts and washers, securely attach the speaker array to the tower.
- **Connect Audio Paging Speaker Cables** - Using the pre-installed Wago connectors, connect the Audio Paging Speaker Cable to the cable that was fished up through the opening on the top of the tower in previous steps.



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- **Re-attach Solar Array Top Plate** - Using the 6 bolts & washers that were removed previously, reattach the top plate of the Audio Paging Speaker Array.
- **Fish Solar Panel Cables Through Top Plate** - Utilizing the middle hole located on the Audio Paging Array top plate, fish the solar panel connection cables through it.
- **Attach Solar Panel Mounting Bracket** - While feeding the solar panel connection cables through the aluminum solar panel mounting bracket, align the bracket on top of the Solar Audio Paging Array. Secure it to the unit with the 3 bolts & washers provided.



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Solar Audio Paging Amp Connection

- **4 Connections From Amp**
 - **Black & Red 2 Conductor Wire w/ Female Wago Connector** - Connect to Amp on 5 Way Manifold
 - **Black Wire w/ 7 Pin Connector** - Connect to 7 Pin Input on Phone Board (See [Figure 4](#) for phone inputs)
 - **Gray 4 Pin RJ 11 Cable**- Connect to Audio Paging Audio Input on Phone Board. (See [Figure 4](#) for phone inputs)
 - **Black & Red 4 Conductor Wire w/ Male Wago Connector** - Connect to Amp/Speaker wire that is pre-installed inside the unit. (See [Figure 5](#) for pre-installed wire)

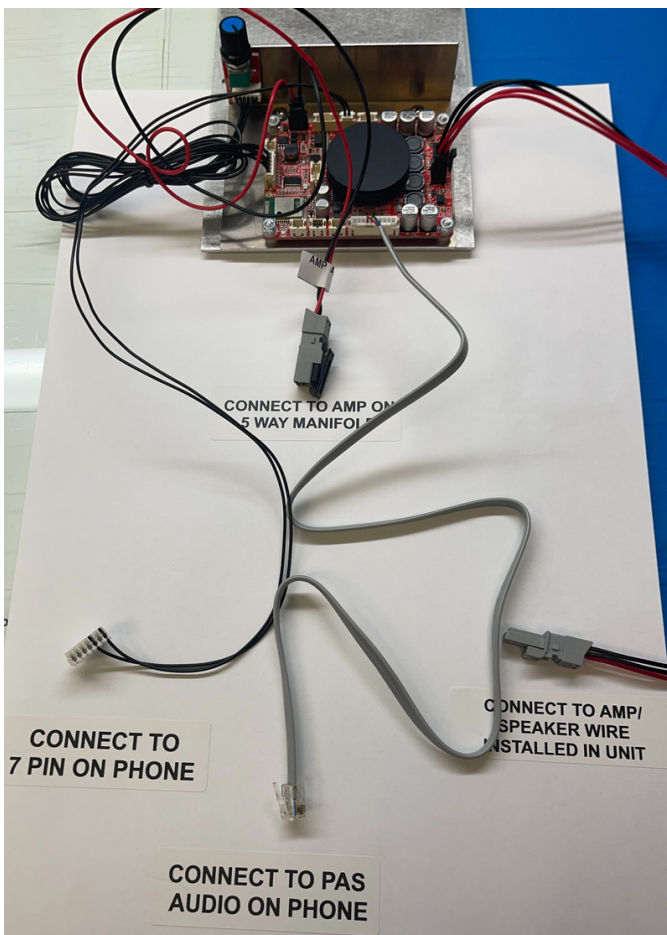


Figure 3 - Amp Connections

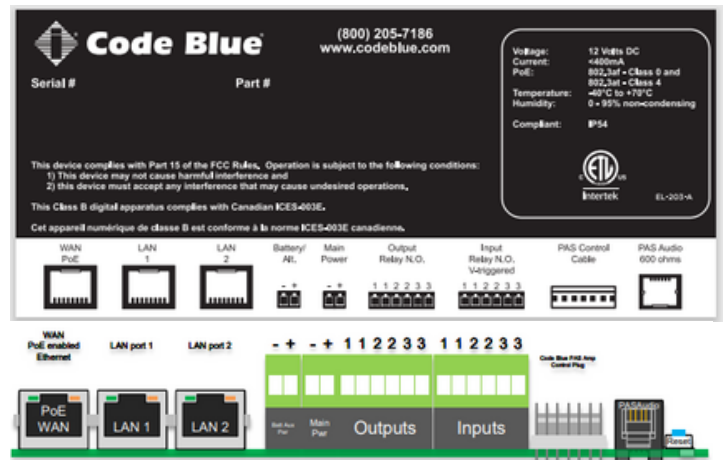


Figure 4 - Speakerphone Input Locations



Figure 5 - Pre-Installed Speaker/Amp Wire

See CB 1-w Admin Guide for remaining installation steps of tower unit.



CB 5-s Tower with Current 360° Audio Paging Top

- **Tools Required**

- Ladder - to reach the top of the unit.
- Security bit - to secure the Audio Paging top to the adapter ring.
- 3/8" socket set - to secure the Audio Paging adapter base to the top of the unit.
- 6mm Allen wrench - to secure the Audio Paging adapter ring to the top of the Audio Paging adapter base.

Before You Begin: Remove 120V AC power from the unit.

- **Existing Beacon Strobe Removal**(See [Figure 6](#) below for referenced components)

- Remove the 3 beacon strobe mounting screws from the top of the unit.
- Raise the beacon strobe assembly upwards & disconnect the red/black and yellow/yellow wiring harnesses connected to the beacon/strobe.

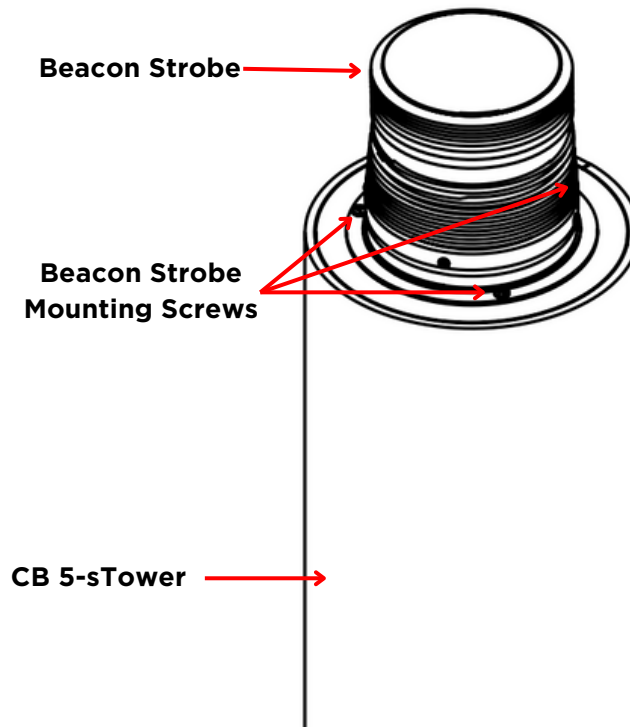


Figure 6

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- **Install CB5 Series Audio Paging Top Adapter Ring** (See [Figure 7](#) below for component references)
 - Place foam gasket on top of the CB5 unit.
 - Align the Audio Paging Adapter Ring over the gasket, matching up the holes with the the threaded holes in the tower.
 - Insert and tighten the three 3/8" bolts to secure the Adapter Ring to the CB5 Tower.

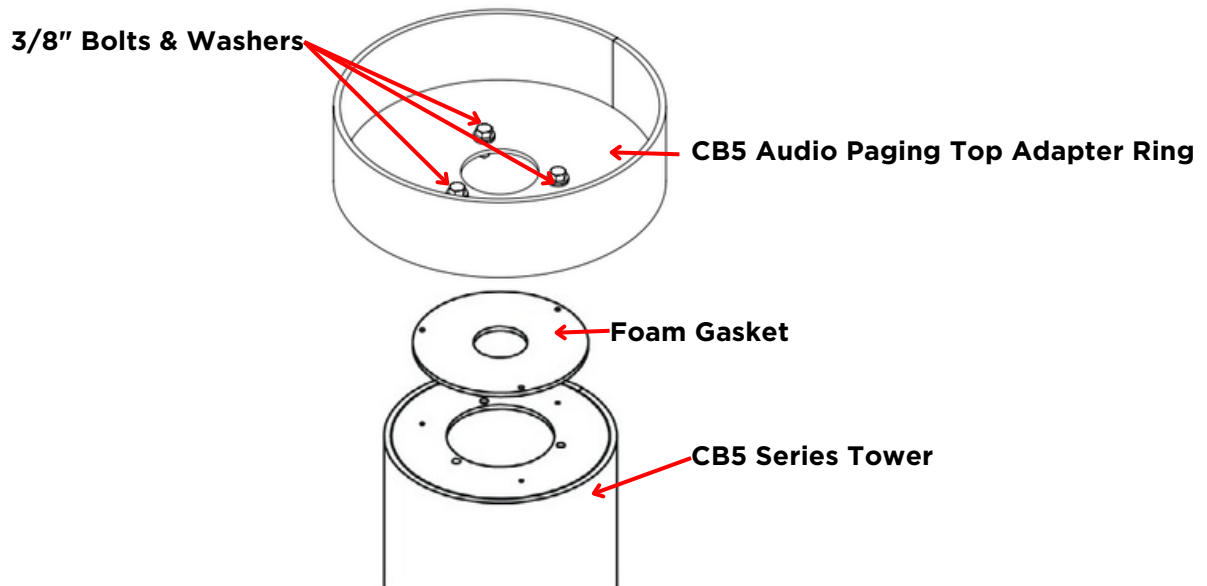
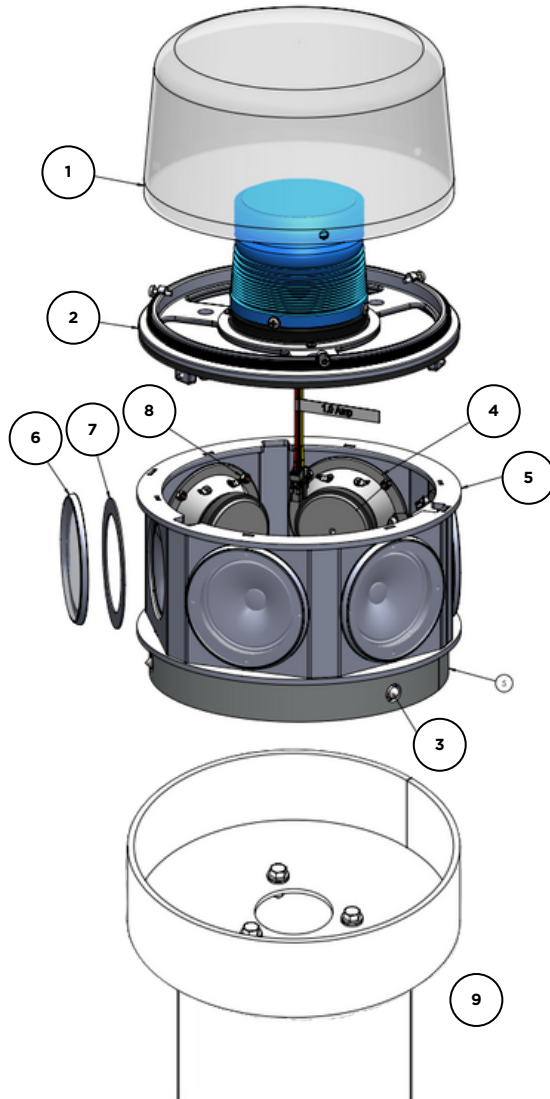


Figure 7

- **Install 360° Audio Paging Top** (See [Figure 8](#) on the following page for component references)
 - Insert the Audio Paging Top Housing into the CB 5 Audio Paging Adapter Ring.
 - Ensure the paging top is aligned properly and level. Reach through the housing, tighten the 3 set screws into the side wall of the adapter ring using the required Allen wrench.
 - Connect all amp and lighting wiring harnesses as detailed in the Wiring Diagrams section of this Guide and the CB5 Admin Guide, based on your product's configuration.
 - After all wiring is properly and securely connected, place the beacon strobe assembly on top of the audio paging housing, making sure to properly align the dome top casting with the coordinating notches in the paging housing. Once in place, secure the beacon strobe assembly to the paging housing using the 3 thumb screws provided.
 - Place the dome top lens over the beacon strobe assembly, aligning the holes with the threaded screw holes located on the dome top casting.
 - Secure the dome top lens into place, using the 3 provided security screws.
 - Reapply power to the unit.



#	Component	Qty
1	Dome Top Lens	1
2	Beacon Strobe Assembly	1
3	Set Screws	3
4	Speaker	6
5	Audio Paging Top Speaker Housing	1
6	Speaker Grille	6
7	Nylock Nut	24
8	Speaker Gasket	6
9	CB5 Tower w/ AP Adapter Ring	1

Figure 8



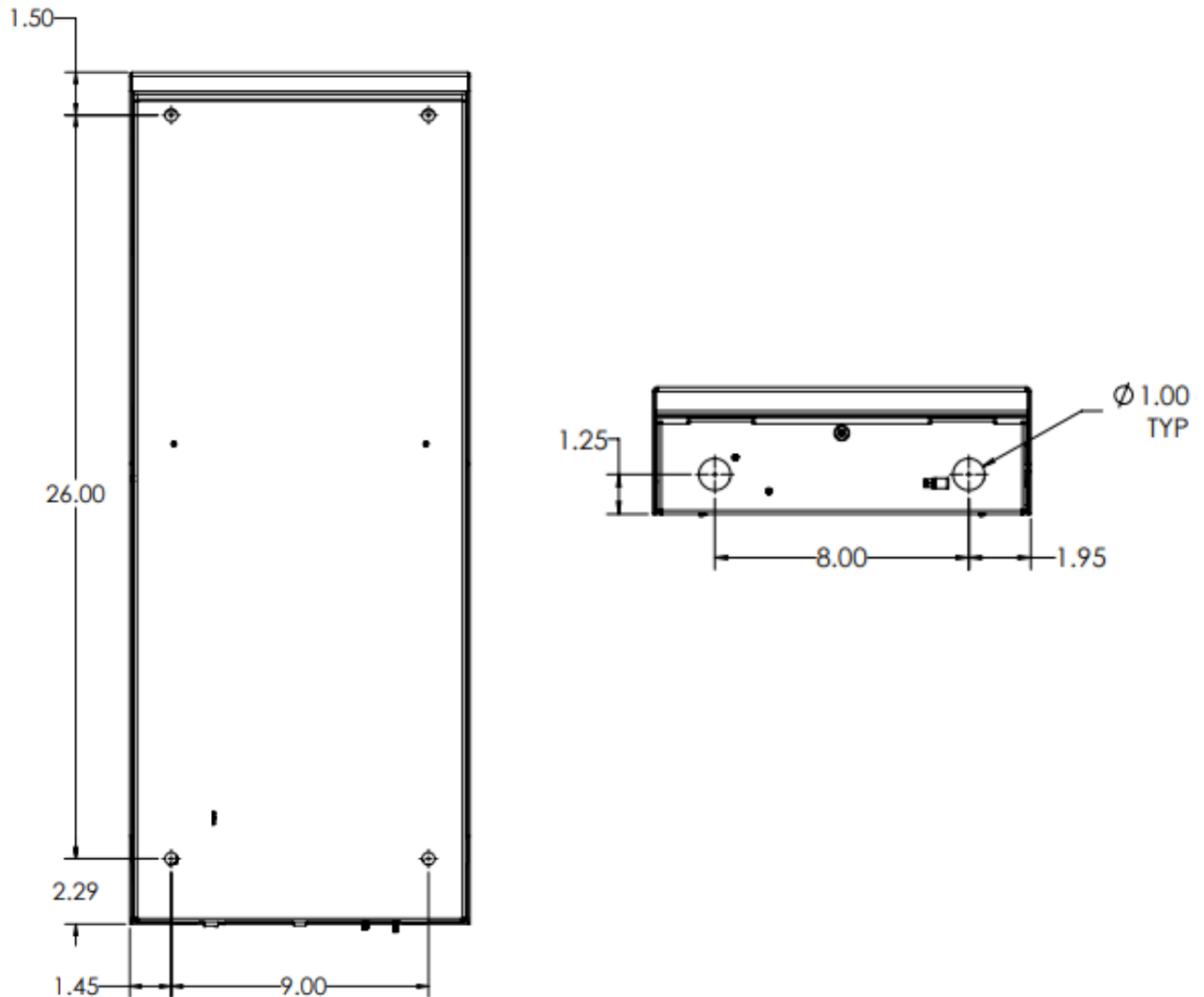
CB 2 with Audio Paging (CB 2-ap) Installation Instructions

1. Unscrew security screw from bottom of unit. Lift and open unit.
2. Disconnect wire connections from strobe, faceplate light and phone. Lift up on black locking tab on each connector to separate.
3. Unscrew the nut from the stud to release safety cable from back plate. Place nut back on stud.
4. Lift up on front of unit and remove. Set aside.
5. Using back plate of unit as template, level and mark the four mounting holes.
6. Drill all marked holes with appropriate drill bit.
7. If attaching to concrete or brick, insert one 3/8" anchor into each drilled hole.
8. If attaching to wood, 3/8" lag bolt is required.
9. On one 3/8x3" lag bolt, add one 3/8" flat stainless steel washer followed by one 3/8" flat rubber washer.
10. Slide lag bolt through top left mounting hole.
11. Add one 3/8" flat rubber washer, followed by one 3/8" flat stainless steel washer to end of screw.
12. Drill lag bolt into mounting hole.
13. Repeat previous steps for three remaining mounting holes.
14. Slide front of unit back onto bottom tabs of back plate.
15. Reattach safety cable.
16. Reconnect strobe and phone to power system.
17. Connect incoming power to appropriate tap (high voltage or low voltage).
18. Connect incoming communication line (CAT6) to phone using its WAN port.
19. Close unit.
20. Replace security screw into bottom of unit.





CB 2 with Audio Paging (CB 2-ap) Mounting Schematic



DISCLAIMER: The dimensions above are intended as guidelines only. For specific installation requirements, reference your local codes.

All wiring must be installed and connected by experienced and certified personnel to meet local and national electrical codes, and will include a service disconnect.



Pole Mounting Option for CB 2 with Audio Paging (CB 2-ap)

Use [Figure 9](#) Below for component references.

- **THREAD MOUNTING STRAPS THROUGH SLOTS**
 - Thread mounting straps through slots for any size poles.
- **HOLD BRACKET TO POLE**
 - Set the height of the bracket (C) so that the speakerphone push button(s) on the unit will be at desired height (please check with local codes for ADA compliance).
- **BAND THE BRACKET TO THE POLE AT DESIRED HEIGHT**
 - To eliminate waste, pull band (A) from carton as needed. With ears of buckle (B) away from operator, slide the buckle on the banding. Lace banding around the object being clamped and again through buckle.
 - Bend end of band under buckle.
 - Slide band into banding tool nose slot.
 - When maximum tension has been reached, roll tool over buckle. At same time reversing handle carefully approximately $\frac{3}{4}$ turn to avoid breakage. The band that is released will be used in the bend and therefore there is no loss of tension.
 - Lift cutter lever and band will be cut to correct length. While holding the stub of the band with your thumb, hammer flat over bridge of buckle.
 - Complete application by hammering the buckle ears over the stub.
- **ATTACH ENCLOSURE TO BRACKET**
 - Place a rubber washer (D) on each of the four studs.
 - Align and place the back plate of the unit over the four studs.
 - Place a second set of rubber washers on to each of the four studs (inside the unit).
 - Place a steel washer (E) on each of the four studs.
 - Turn a nut (F) on each of the four studs.

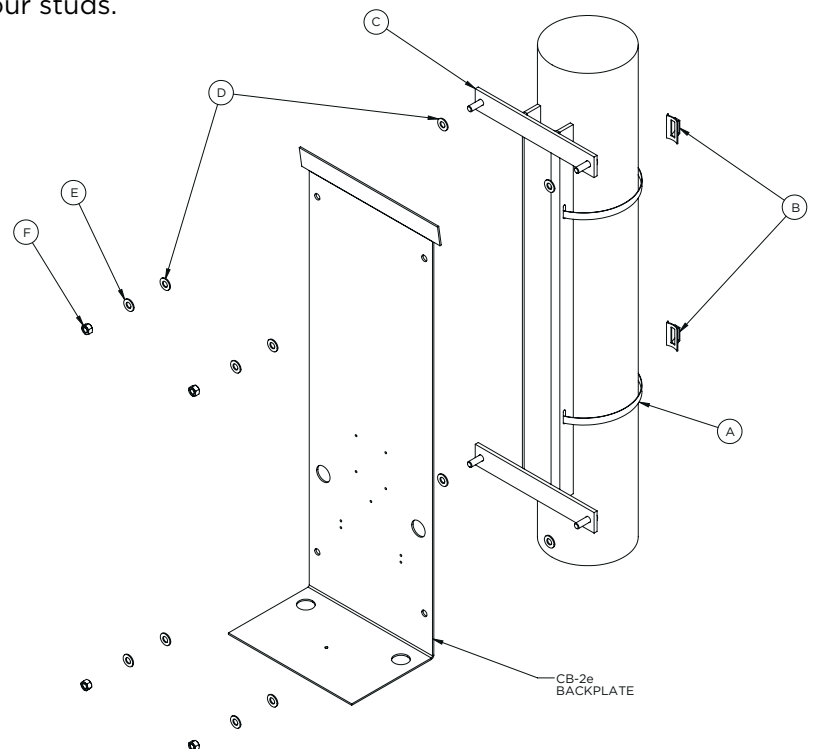


Figure 9



WM-180 Wall Mount Audio Paging Speaker

• Tools Required

- Ladder – to reach mounting height.
- Security bit - to remove phone to access mounting holes.
- 1/2-inch concrete bit – to drill holes for the mounting anchors for the mounting bolts.
- 9/16” socket set - to secure the housing to the wall with mounting bolt.

Note: If unit does not include an IP or Analog controller board, then it must be located near an IA4100, IP5000, or LS1000 speakerphone for the 20-foot supplied Audio Paging cables to reach it.

• Installation with Controller Board

- Supply 24V AC to Power Manifold (see [Figure 13](#) on page 43).
- Supply phone line to phone port if the unit has an analog controller board, or Ethernet IP connection to LAN port if it has an IP controller board.
- Reference IA4100 Admin Guide for analog controller board programming.
- Reference IP5000 or LS1000 Admin Guide for IP controller board programming.

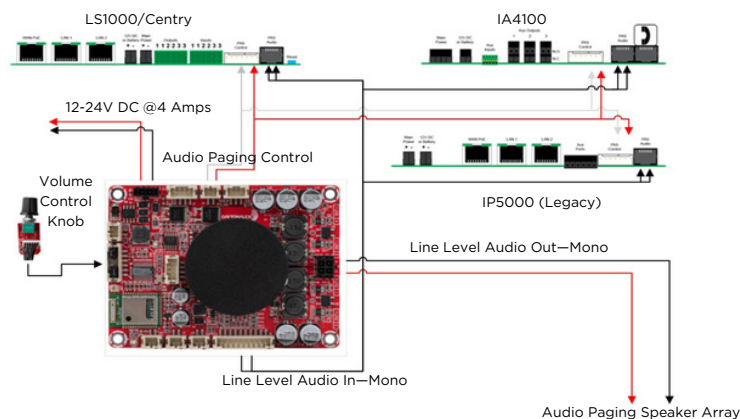
• Installation without Controller Board

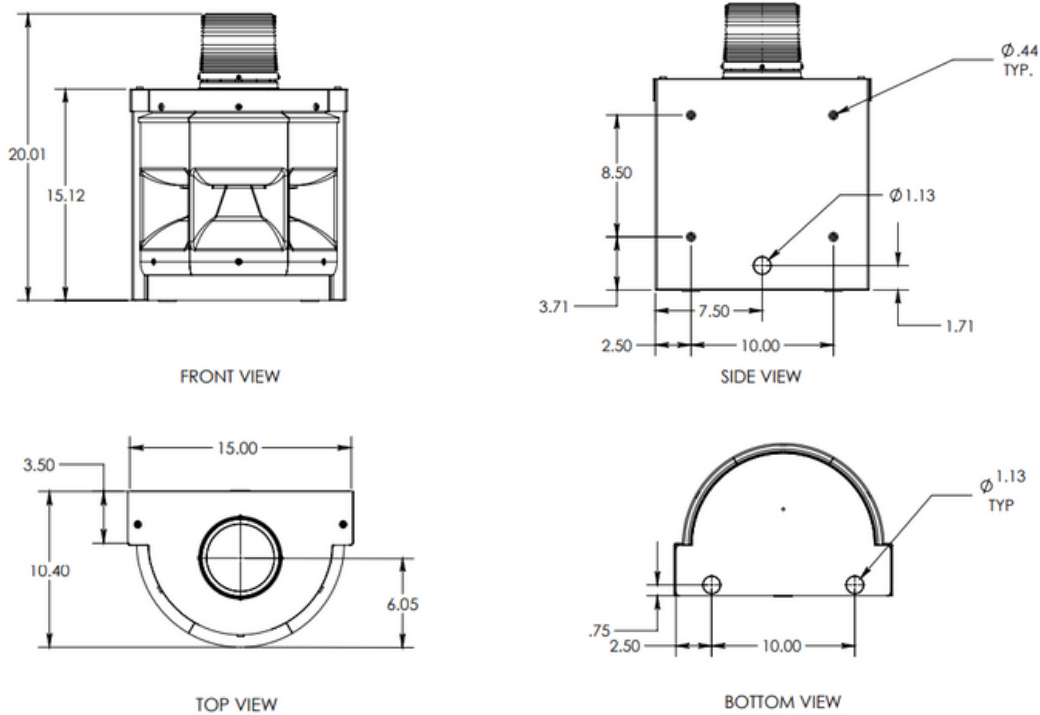
- Supply 24V AC to Power Manifold.
- See attached wiring diagram for connecting the Audio Paging Audio Cable and Audio Paging Control Cable to the nearby IA4100, IP5000, or LS1000 speakerphone.
- Reference IA4100 Admin Guide for analog controller board programming.
- Reference IP5000 or LS1000 Admin Guide for IP controller board programming.

Upgrading from Legacy Audio Paging Amplifier:

1. Remove legacy amplifier and connecting harness.
2. New amplifier will be mounted to the back of the speakerphone with the two screws holding the back cover on.
3. Connect the Audio Paging Control Harness and Line Level Audio In(Provided with amp) to the speakerphone.
4. Connect Line Level Audio Out to the Speaker Array(Harness from amp provided).
5. Volume control knob comes pre-installed.
6. Connect Power to DIN Rail mounted power transformer leg with 5 amp fuse.

NOTE: Legacy Audio Paging Amp requires 24V AC power. New Audio Paging Amp requires 12-24V DC. Ensure that proper voltage is connected to new amplifier.





Suggested installation dimensions shown from ground to lower right mounting hole are for single button faceplates.

- For dual button faceplate, deduct 3.25 inches.
- For keypad faceplate, deduct 4.5 inches.
- For wheelchair direct facing access only, deduct 6 inches.

DISCLAIMER: The dimensions above are intended as guidelines only. For specific installation requirements, reference your local codes.



8 Installation - **Legacy** Audio Paging Products

This section covers the following units:

- CB 1 Series with Legacy 360° Audio Paging System
- CB 2-e with Public Address(Legacy Unit)
- CB 5-s with Legacy 360° Audio Paging System

CB 1-e & CB 1-s with **Legacy** Audio Paging Installation

• Tools Required

- Ladder - to reach the top of the unit.
- Security bit - to secure the Audio Paging top to the adapter ring.
- 6mm Allen wrench - to secure the Audio Paging adapter ring to the top of the unit.
- 3/8" socket set - to mount the mounting plate containing the new toroid transformer.

Before You Begin: Remove 120V AC power from the unit.

• Install Adapter Ring

- Remove the existing dome top assembly. Disconnect the red/black and yellow/yellow wiring harnesses connected to the beacon/strobe mounted in the dome top assembly.
- Place the adapter ring on top of the bollard and tighten the three Allen set screws to hold in place (see [Figure 11](#) on page 29).

• Transformer Installation

NOTE: Skip this section if you ordered a CB 1 Series with Public Address as a complete unit.

- Remove lower access door on the CB 1 tower.
- Remove the existing 120V AC step down transformer.
- Install toroid transformer with mounting plate using supplied hardware (see [Figure 10](#) on the following page).
- Connect incoming 120V AC wiring to the transformer using the junction box on mounting plate. Refer to included wiring diagram for wiring terminations (See [Figure 15](#) on page 45).
- Run the supplied amplifier wiring harness, beacon/strobe power harness (red/black), beacon/strobe auxiliary harness (yellow/yellow), 7 pin control cable and RJ-11 audio cable to the top of the bollard. Connect the molded quick connector on the red/black harness to the manifold connector on the transformer. Connect the yellow/yellow harness, 7 pin control cable and RJ-11 to the phone board. Connect the large white connector of the amplifier wiring harness to the wiring connector on the transformer. Refer to the included wiring diagram for wiring terminations (See [Figure 10](#) on following page).



Figure 10

- **Install 360° Audio Paging Speaker Unit**
 - Connect the red/black and yellow/yellow wiring harnesses to the red/black and yellow/yellow wiring pigtails coming from the beacon/strobe.
 - Connect the 6 pin wiring harness, 7 pin control cable and RJ-11 audio cable to the ports on the amplifier.
 - Set the Audio Paging speaker unit on the adapter ring, lining up the screw holes at the bottom of the unit. Secure the speaker unit with the provided security screws.
 - Reapply power to the unit.



CB 5-s with **Legacy** Audio Paging Installation

- **Tools Required**

- Ladder - to reach the top of the unit.
- Security bit - to secure the Audio Paging top to the adapter ring.
- 3/8" socket set - to secure the Audio Paging adapter base to the top of the unit.
- 6mm Allen wrench - to secure the Audio Paging adapter ring to the top of the Audio Paging adapter base.

Before You Begin: Remove 120V AC power from the unit.

- **Install Adapter Ring**

- Remove existing beacon/strobe assembly. Disconnect the red/black and yellow/yellow wiring harnesses connected to the beacon/strobe mounted on top of the CB 5-s unit.
- Place a foam gasket on the unit, then the adapter base on top of the bollard and tighten the 3/8" bolts with washers to secure the adapter base to the set screws to hold in place.
- Place adapter ring on top of the adapter base and tighten the three Allen set screws to hold in place (see [Figure 11](#) on the following page).

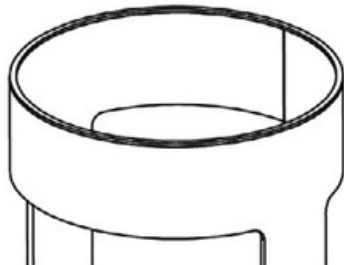
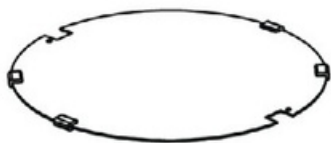
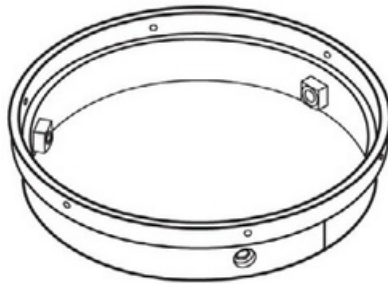
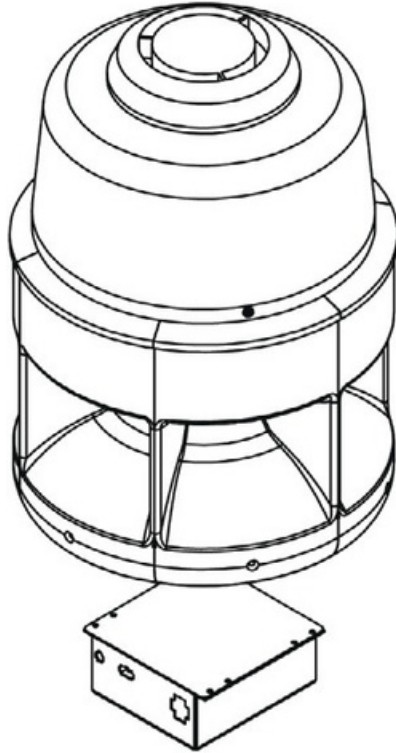
- **Install Adapter Ring**

- Connect the red/black and yellow/yellow wiring harnesses to the red/black and yellow/yellow wiring pigtailed coming from the beacon/strobe.
- Connect the 6 pin wiring harness, 7 pin control cable and RJ-11 audio cable to the ports on the amplifier.
- Set the Audio Paging speaker unit on the adapter ring, lining up the screw holes at the bottom of the unit. Secure the speaker unit with the provided security screws.

- **Reapply power to the unit**



Legacy CB1 Series Audio Paging Top



Legacy CB5 Series Audio Paging Top

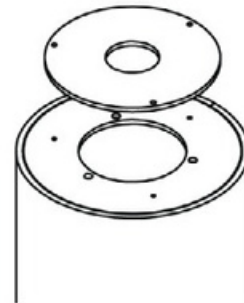
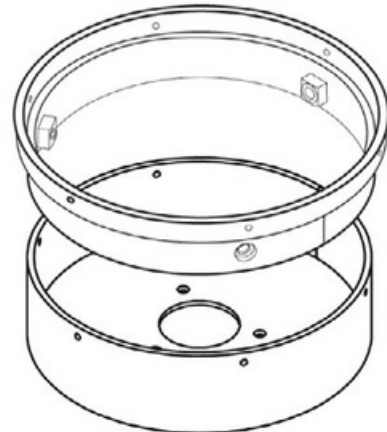
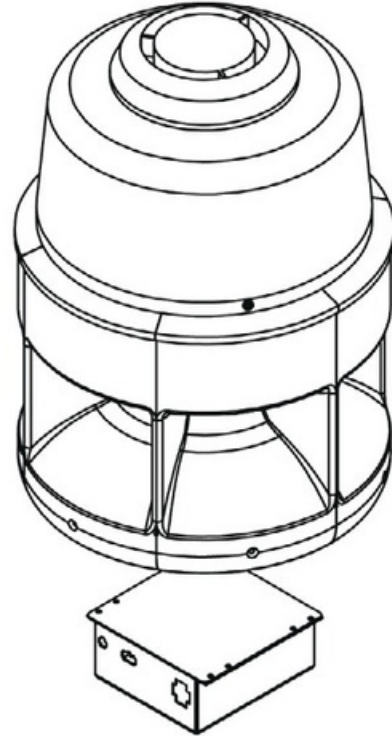


Figure 11



Legacy CB 2-e with Public Address Installation

- **Tools Required**

- Security bit - to remove phone to access mounting holes.
- ½-inch concrete bit - to drill holes in wall for the mounting anchors for mounting bolts.
- 9/16” socket set - to secure the housing to the wall with mounting bolts.

- **Installation Procedures**

- Electrical preparation: the unit may have supply wires run from either (a) behind the unit through the wall, or (b) below the unit using an external conduit through the bottom. Holes in the back and bottom have been provided for this purpose (See [Figure 12](#) on the following page).
- Remove the top of the unit.
- Mark the mounting holes. In order to comply with the Americans with Disabilities Act (ADA), the speakerphone button(s) should be positioned between 34 and 48 inches from grade level. Consult an ADA specialist in your area to verify local and federal guidelines.
- Drill all marked holes.
- Install the housing. Four anchors of appropriate size and type should be used to fasten the housing to the wall (see [Figure 12](#) on the following page).

IMPORTANT: If wiring is being supplied from the back, ensure that the conduit is aligned at this time.

- Reattach the top.

- **Electrical Wiring**

- Ground - The ground (green) wire should be stripped and fastened to the supplied grounding lug.
- 24V AC supply - Using the proper crimping tool, attach a #8 fork to each of the incoming power wires and fasten them to the terminal screws labeled “Line” and “Neutral.”
- 120/240V AC supply - Using the proper crimping tool, attach a #8 fork to each of the incoming power wires and fasten them to the correct terminals as labeled on the transformer. After completing the wire connections, install the supplied terminal covers.

- **Communications Wiring**

- Have category 3 or higher 4 pair cable terminated to a RJ45 applying TIA/EIA T568-B specifications.



Legacy CB 2-e with Public Address Mounting Schematic

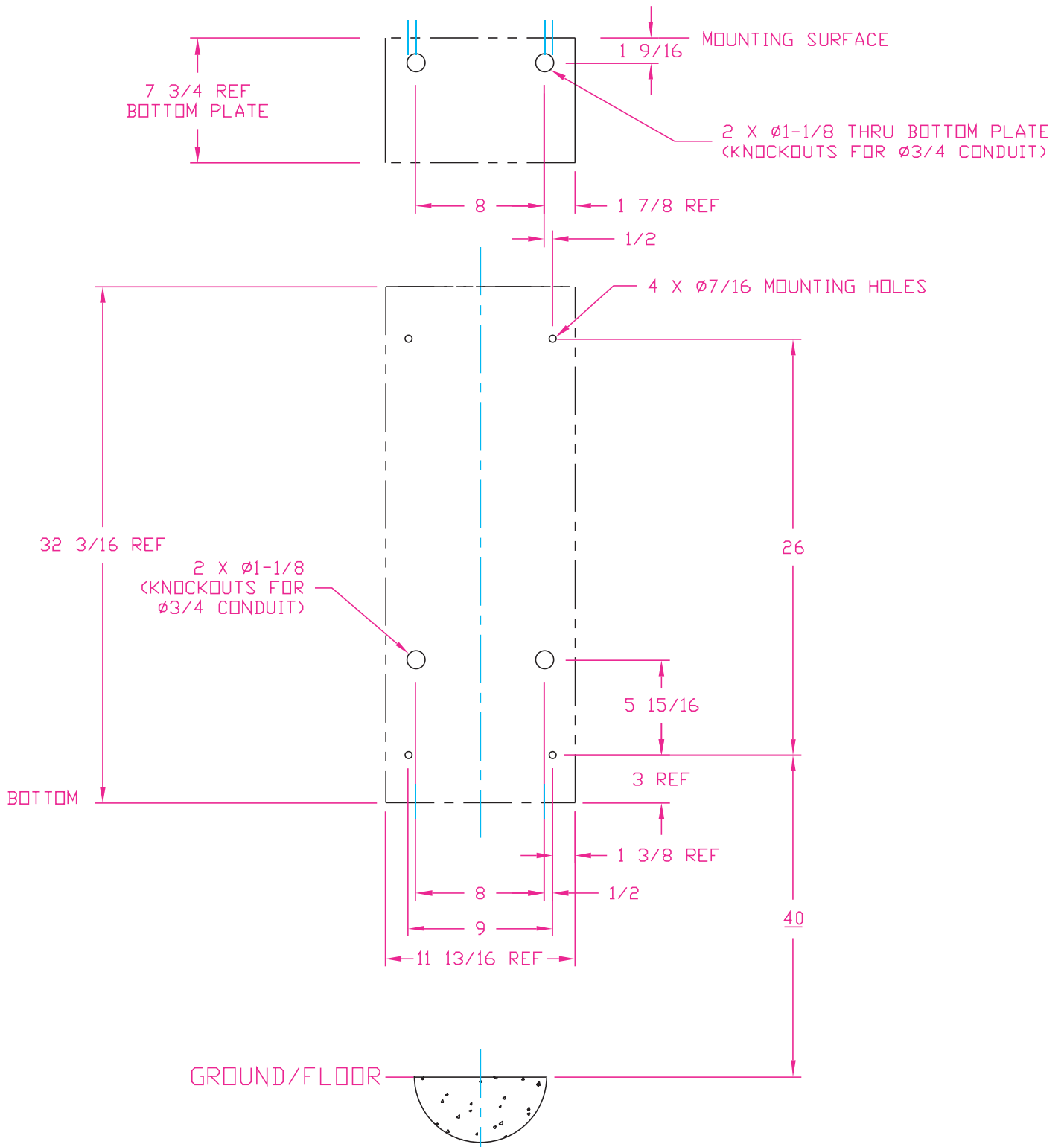


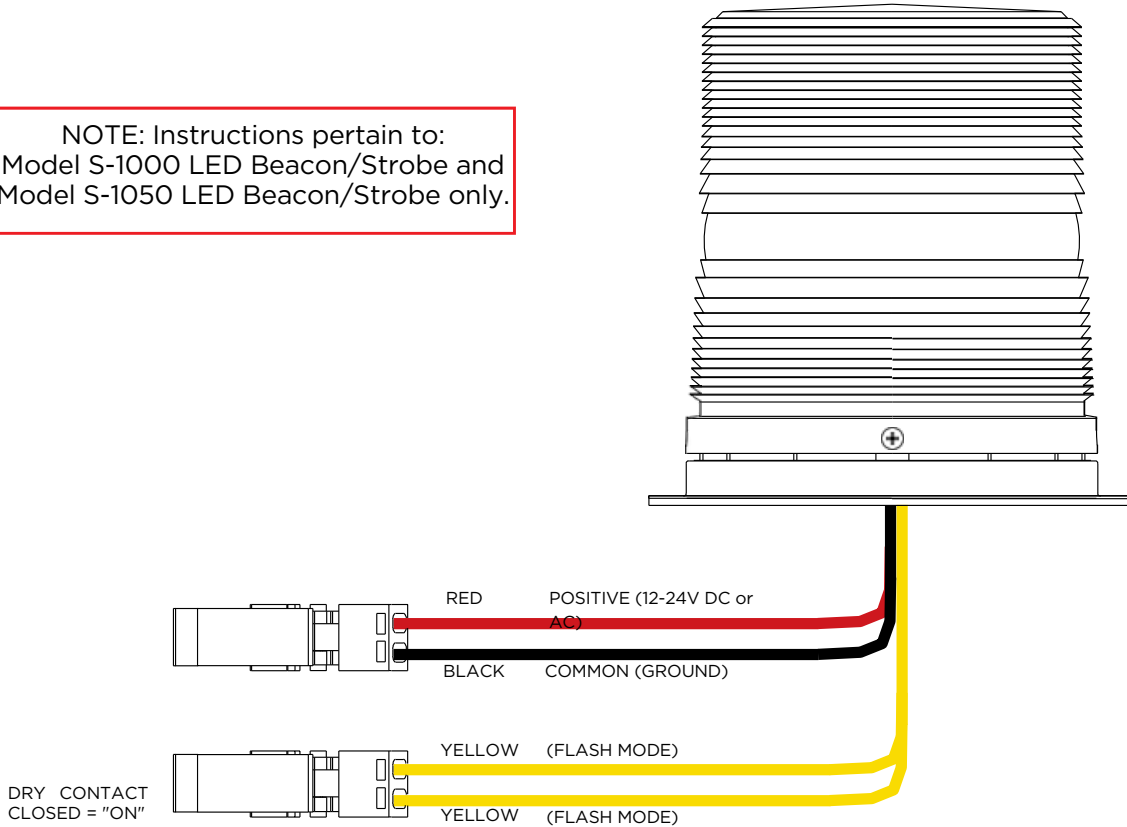
Figure 12



9 Strobe Management & Programming

S-1000 & S-1050 Strobe Operation

NOTE: Instructions pertain to:
Model S-1000 LED Beacon/Strobe and
Model S-1050 LED Beacon/Strobe only.



CAUTION ⚠️ **REMOVE ALL POWER FROM UNIT BEFORE SERVICING.**

OPERATION

To activate the LEDs in the PRIMARY-STEADYBURN MODE, connect the BLACK and RED wires to 12-24 volts AC or DC.

When in PRIMARY-STEADYBURN MODE, to change the LEDs to SECONDARY-FLASH MODE, connect both YELLOW control wires together (i.e., CLOSED = ON).

PHOTOCELL FEATURE (S-1050 MODEL)

The Steadyburn Mode will be ON in dark or night ambient environments and OFF in bright or daylight ambient environments. The S-1050 LED Beacon/Strobe has two built-in photo response features: (a) dawn/dusk transition delay of 15-30 minutes and (b) transient light acknowledgement delay of at least 3 minutes.



PROGRAMMING PRIMARY & SECONDARY MODES

1. Remove power from unit.
2. Short the Yellow wires together.
3. Restore power to the unit and wait until the unit begins to flash. Once the unit begins to flash, remove the short. The unit will alternately demonstrate the Secondary-Flash Mode and Primary-Steadyburn Mode that will be displayed during operation. For approximately 4 seconds the Secondary-Flash Mode will be demonstrated, followed by the Primary-Steadyburn Mode.
4. To select the next mode of operation, momentarily short the yellow wires. The unit will cycle to the next mode in the list above.

Mode Number	Primary-Steadyburn Mode	Secondary-Flash Mode
1	High	Single - 60 FPM
2	OFF	Single - 60 FPM
3	Low	Single - 60 FPM
4	High	Single - 150 FPM
5	OFF	Single - 150 FPM
6	Low	Single - 150 FPM
7	High	Single - 375 FPM
8	OFF	Single - 375 FPM
9	Low	Single - 375 FPM
10	High	Neobe - 75
11	OFF	Neobe - 75
12	Low	Neobe - 75
13	High	Neobe - 150
14	OFF	Neobe - 150
15	Low	Neobe - 150
16	High	Double - 125
17	OFF	Double - 125
18	Low	Double - 125
19	High	Double - 250
20	OFF	Double - 250
21	Low	Double - 250

5. There are seven Flash Modes and three Steadyburn Modes combinations to choose from.
6. When you reach the desired mode of operation, remove power from the unit. You MUST leave power disconnected for 20 seconds BEFORE reapplying. When power is reapplied, the unit will operate as programmed above.

NOTE: If you do not leave power disconnected for 20 seconds before reapplying power, the light will default to Program Mode.

INPUT VOLTAGE RANGE: 12-24V AC or DC		
TEMPERATURE RATING: -40°C to +65°C (-40°F to 149°F)		
TYPICAL POWER CONSUMPTION AT 25°C		
Voltage Flash Mode		Steady Mode - High
12V DC	0.24 A Max	0.24 A
24V DC	0.12 A Max	0.12 A
12V AC	1.1 A rms Max	0.53 A rms
24V AC	0.22 A rms Max	0.22 A rms
NOTE: Average current draw in Flash Mode will vary by selected Flash mode. The above maximum amperage draw is stated at Single 60 FPM.		



10 Power Requirements

The following tables on pages 34- 37 include **CB1** and ALL OTHER Code Blue devices & enclosures for reference.

Faceplates	Voltage	Max Current	Max Watts	Norm Current	Norm Watts	KWHrs
IA4100	24V AC	0.40	9.60	0.22	5.28	0.13
	12V DC	0.90	10.80	0.39	4.68	0.11
	24V DC	0.90	21.60	0.39	9.36	0.22
IP5000	24V AC	0.10	2.40	0.07	1.68	0.04
	12V DC	0.19	2.28	0.15	1.80	0.04
	24V DC	0.19	4.56	0.15	3.60	0.09
Centry	12VDC	0.50	6.00	0.38	4.56	0.11
LS1000/LS2000	12V DC	0.50	3.60	0.40	4.80	0.12
Lights	Voltage	Max Current	Max Watts	Norm Current	Norm Watts	KWHrs
s-1000/S-2000 LED Strobe	24V AC	0.28	6.72	0.22	5.28	0.13
	12V DC	0.26	3.12	0.24	2.88	0.07
	24V DC	0.26	6.24	0.24	5.76	0.14
A-700 Area Light	24V AC	1.80	43.20	0.83	19.92	0.48
	12V DC	2.68	32.16	0.38	4.56	0.11
	24V DC	2.68	64.32	0.38	9.12	0.22
S-1050 LED Strobe W/ Photocell	24V AC	0.28	6.72	0.22	5.28	0.13
	12V DC	0.27	3.22	0.24	2.88	0.07
	24V DC	0.27	6.43	0.24	5.76	0.14
LED Light Bar	24V AC	0.04	0.96	0.04	0.96	0.02
	12VDC	0.04	0.48	0.04	0.48	0.01
	24V DC	0.04	0.96	0.04	0.96	0.02
WM180 PAS With LED Strobe	12-24V DC	7.30	175.20	2.10	50.40	1.21



Models With IA4100 Faceplate	Voltage	Current	Watts	KWHrs
CB 1-e	24V AC	0.48	11.52	0.28
	12VDC	0.67	8.04	0.19
	24V DC	0.67	16.08	0.39
CB 1-s	24V AC	1.31	31.44	0.75
	12V DC	1.05	12.60	0.30
	24V DC	1.05	25.20	0.60
CB 5-s	24V AC	0.48	11.52	0.28
	12V DC	0.67	8.04	0.19
	24V DC	0.67	16.08	0.39
CB 9-s	24V AC	0.26	6.24	0.15
	12V DC	0.43	5.16	0.12
	24V DC	0.43	10.32	0.25
CB 2-e	24V AC	0.44	10.56	0.25
	12VDC	0.63	7.56	0.18
	24V DC	0.63	15.12	0.36
CB 2-a	24V AC	0.48	11.52	0.28
	12V DC	0.67	8.04	0.19
	24V DC	0.67	16.08	0.39
CB 2-s	24V AC	1.31	31.44	0.75
	12V DC	1.05	12.60	0.30
	24V DC	1.05	25.20	0.60
CB 2 w/ Audio Paging	12-24V DC	6.44	154.56	3.71
CB 4-s	24V AC	0.22	5.28	0.13
	12V DC	0.39	4.68	0.11
	24V DC	0.39	9.36	0.22
CB 4-r	24V AC	0.26	6.24	0.15
	12V DC	0.43	5.16	0.12
	24V DC	0.43	10.32	0.25
CB 4-u	24V AC	0.26	6.24	0.15
	12V DC	0.43	5.16	0.12
	24V DC	0.43	10.32	0.25
CB 6-F & CB 6-S	24V AC	0.22	5.28	0.13
	12V DC	0.39	4.68	0.11
	24V DC	0.39	9.36	0.22
CB RT	24V AC	0.48	11.52	0.28
	12V DC	0.67	8.04	0.19
	24V DC	0.67	16.08	0.39



Models With IP5000 Faceplate	Voltage	Current	Watts	KWHrs
CB 1-e	24V AC	0.33	7.92	0.19
	12VDC	0.43	5.16	0.12
	24V DC	0.43	10.32	0.25
CB 1-s	24V AC	1.16	27.84	0.67
	12V DC	0.81	9.72	0.23
	24V DC	0.81	19.44	0.47
CB 5-s	24V AC	0.33	792.00	0.19
	12V DC	0.43	5.16	0.12
	24V DC	0.43	10.32	0.25
CB 5-s	24V AC	0.11	2.64	0.06
	12VDC	0.19	2.28	0.05
	24V DC	0.19	4.56	0.11
CB 2-e	24V AC	0.29	6.96	0.17
	12V DC	0.39	4.68	0.11
	24V DC	0.39	9.36	0.22
CB 2-a	24V AC	0.33	7.92	0.19
	12VDC	0.43	5.16	0.12
	24V DC	0.43	10.32	0.25
CB 2-s	24V AC	1.16	27.84	0.67
	12V DC	0.81	9.72	0.23
	24VDC	0.81	19.44	0.47
CB 2 w/ Audio Paging	12-24V DC	6.44	154.56	3.71
CB 4-S	24V AC	0.07	1.68	0.04
	12V DC	0.15	1.80	0.04
	24V DC	0.15	3.60	0.09
CB 4-r	24V AC	0.11	2.64	0.06
	12VDC	0.19	2.28	0.05
	24V DC	0.19	4.56	0.11
CB 4-u	2av AC	0.11	2.64	0.06
	12VDC	0.19	2.28	0.05
	24V DC	0.19	4.56	0.11
CB 6-F & CB 6-S	24VAC	0.07	1.68	0.04
	12V DC	0.15	1.80	0.04
	24V DC	0.15	3.60	0.09
CB RT	24V AC	0.33	7.92	0.19
	12V DC	0.43	5.16	0.12
	24V DC	0.43	10.32	0.25



Models with LS1000/LS2000	Voltage	Current	Watts	KWHrs
CB 1-e	12V DC	0.68	8.16	0.20
CB 1-s	12V DC	1.06	12.72	0.31
CB 5-s	12V DC	0.68	8.16	0.20
CB 9-S	12V DC	0.44	5.28	0.13
CB 2-e	12V DC	0.64	7.68	0.18
CB 2-a	12V DC	0.68	8.16	0.20
CB 2-s	12V DC	1.06	12.72	0.31
CB 4-s	12V DC	0.40	4.80	0.12
CB 4-r	12V DC	0.44	5.28	0.13
CB 4-U	12V DC	0.44	5.28	0.13
CB 6-F & CB 6-S	12V DC	0.40	4.80	0.12
CB RT	12V DC	0.68	8.16	0.20

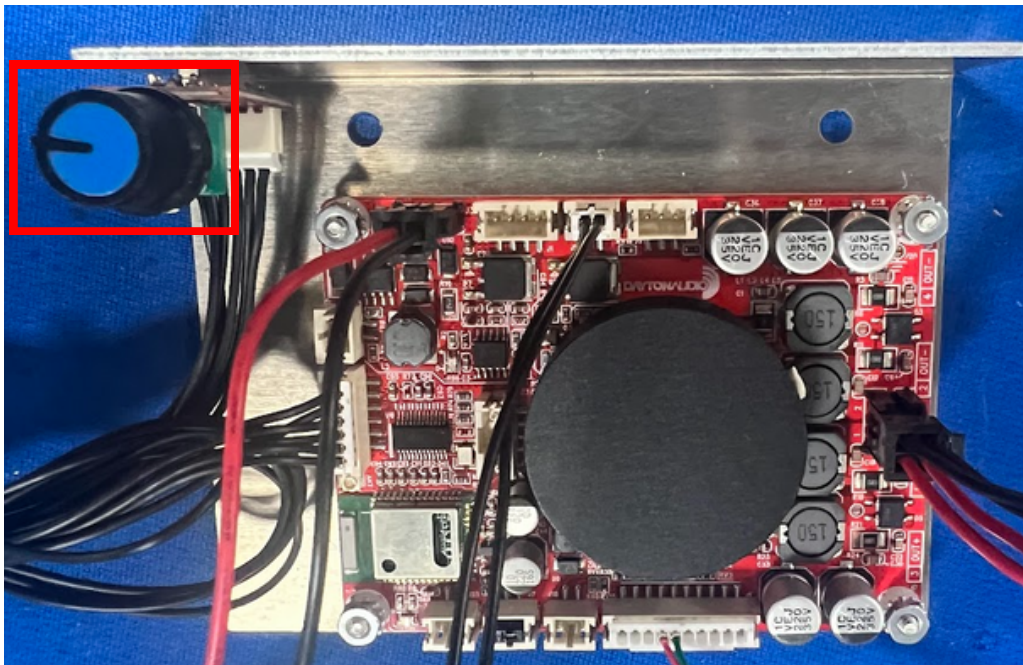
High Voltage Models	Voltage	Current	Watts	KWHrs
CB 1 w/ Audio Paging	12-24V DC	3.83	460	11
CB 5 w/ Audio Paging	12-24V DC	3.33	400	9.6
CB 1 w/ NightCharge	120V AC	2.5	300	2.4
CB 4-U w/ NightCharge	120V AC	2.5	300	2.4

High Voltage AC Components	Voltage	Current	Watts	KWHrs
Multi-Tap Power Supply	120V AC	1.75A/210VAC	210	5.04
DIN Rail Power Supply	120V AC	1.2A/115VAC	115	2.76
Audio Paging Amp	12-24V DC	3.83	459.6	11.03



11 Current Audio Paging Amp - Volume Level Adjustment

- **Locate Volume Adjustment Knob on Paging Amp** - See location in below photo

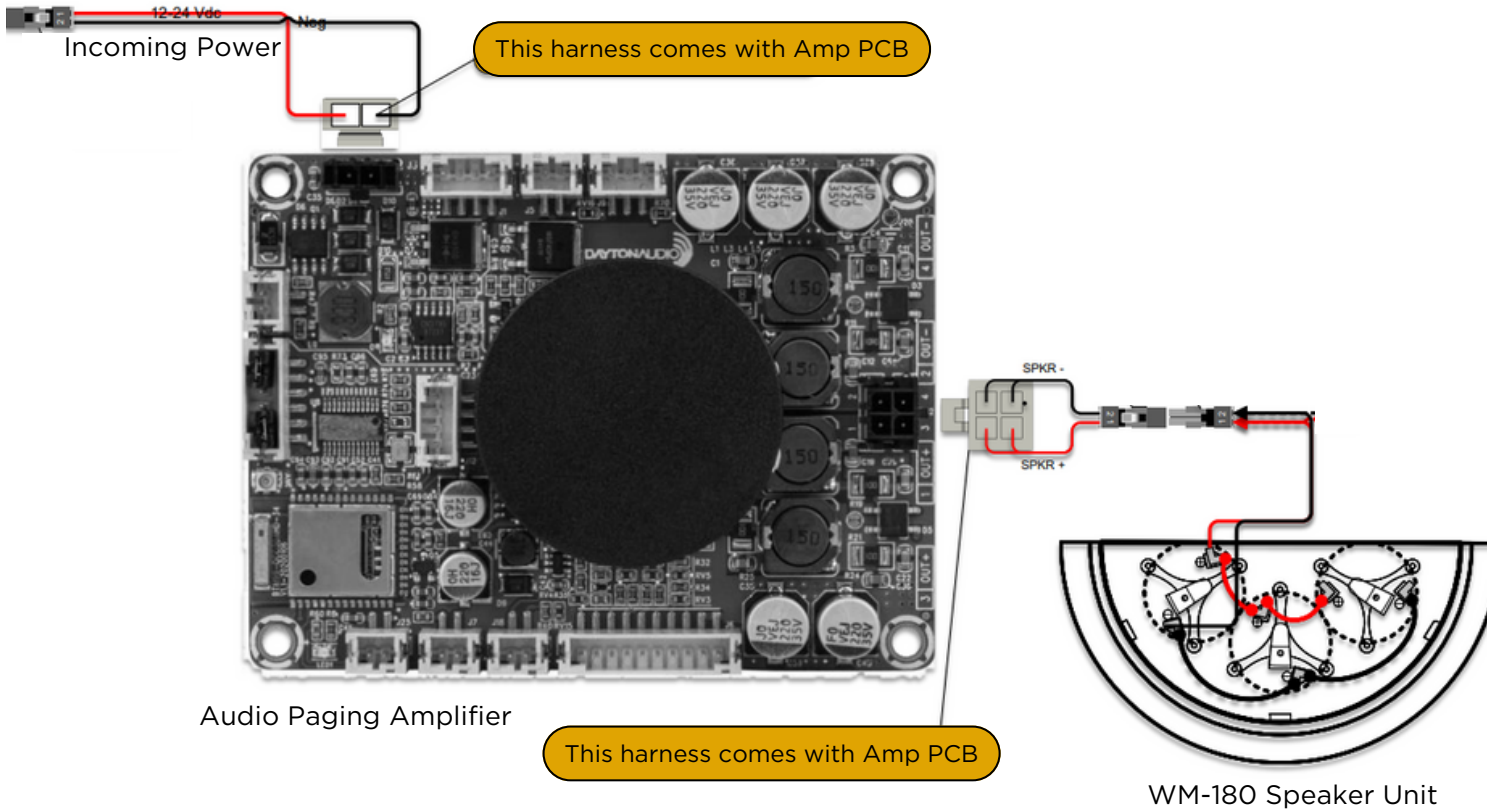


- **Adjust Volume to Desired Level** - By turning the knob clockwise or counter clockwise, this will increase or decrease the volume level of the Audio Paging Speaker Array.



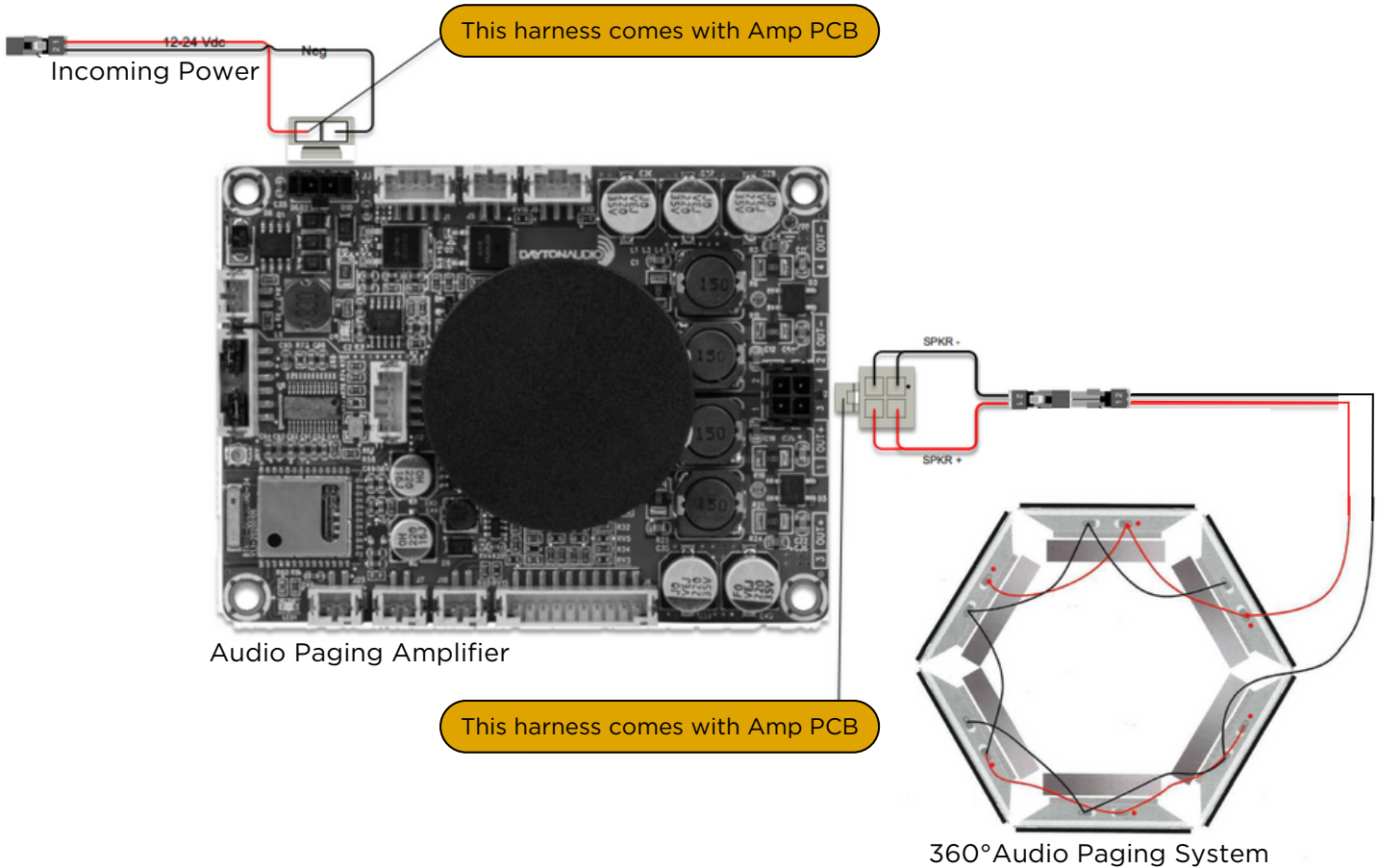
12 Wiring Diagrams

WM-180 - Wall Mounted 180° Audio Paging Speaker with **Current** Amp



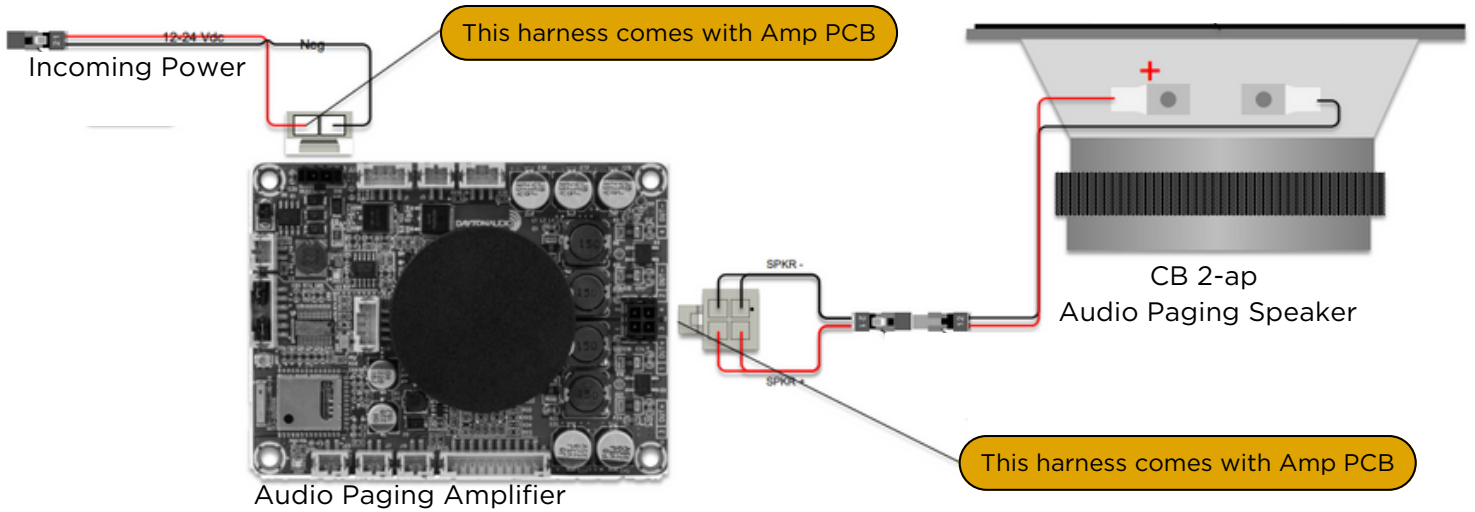


CB 1 Series and CB 5-s with **Current** Amplifier & **Current** 360° Audio Paging System



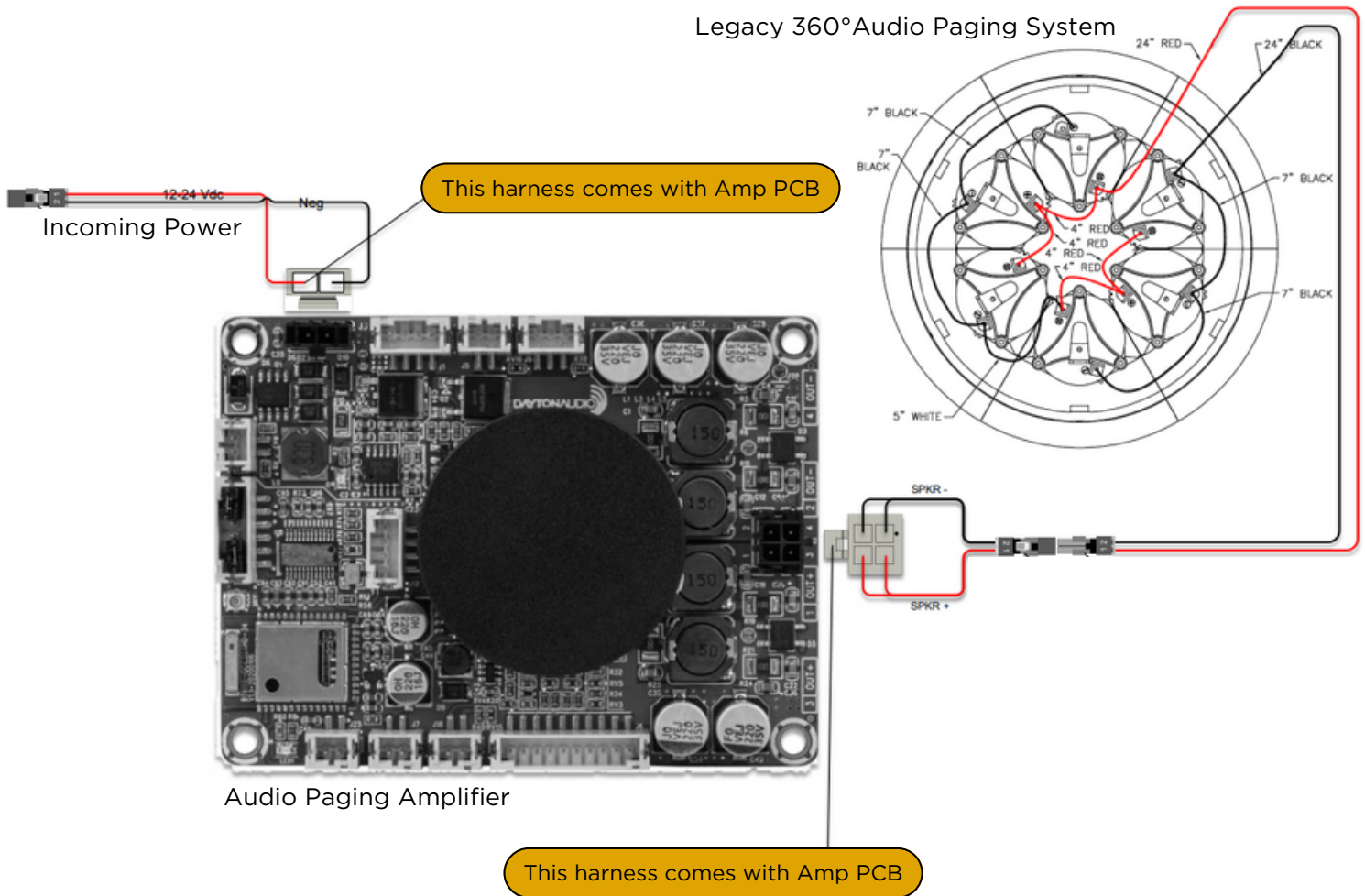


CB 2-ap Wall Mounted Enclosure with Audio Paging





CB 1 Series and CB 5-s with **Current** Amplifier & **Legacy** 360° Audio Paging System





WM-180 - Wall Mounted 180° Audio Paging Speaker with Legacy Amp

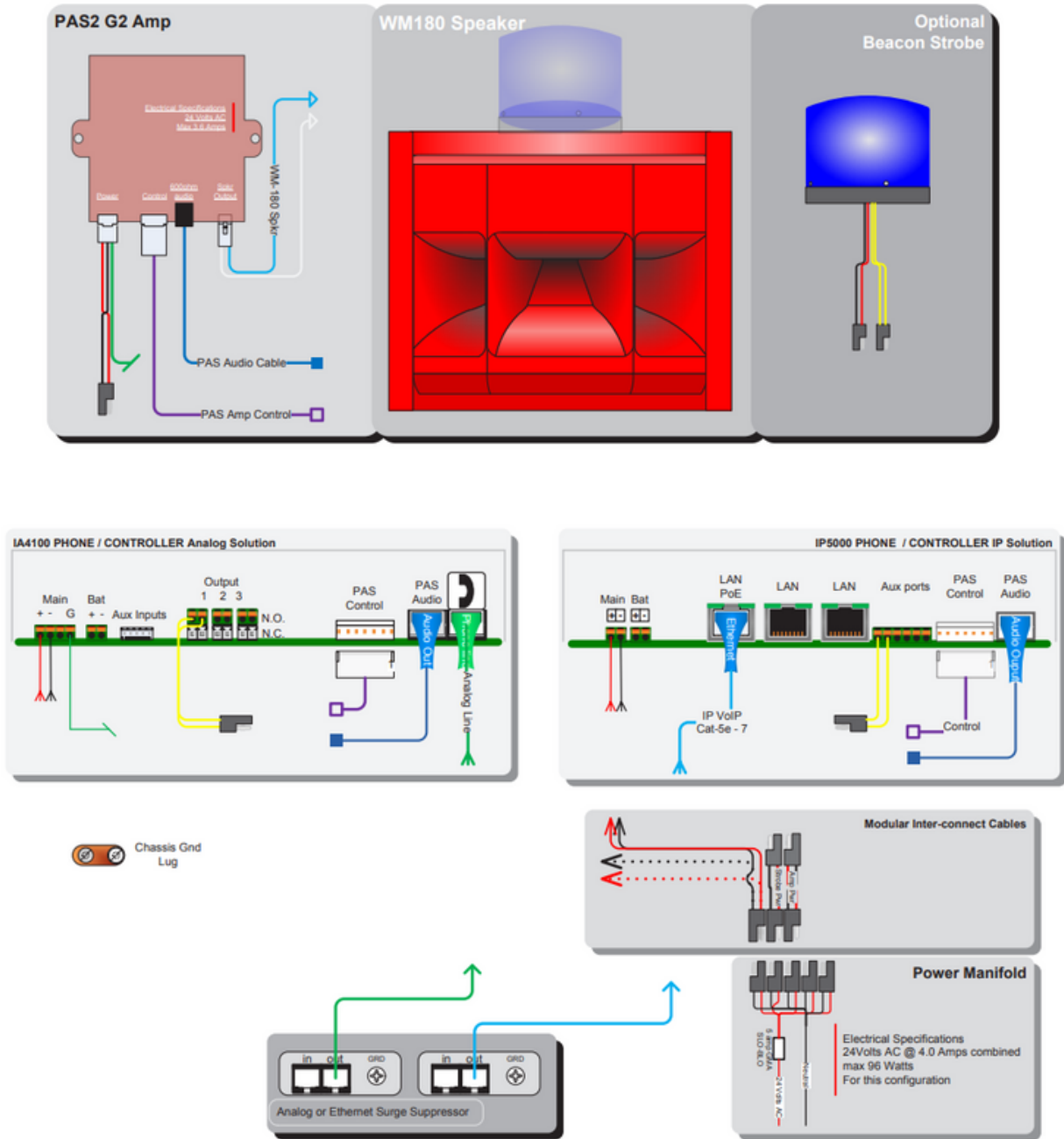


Figure 13



Legacy CB 2-e with Audio Paging

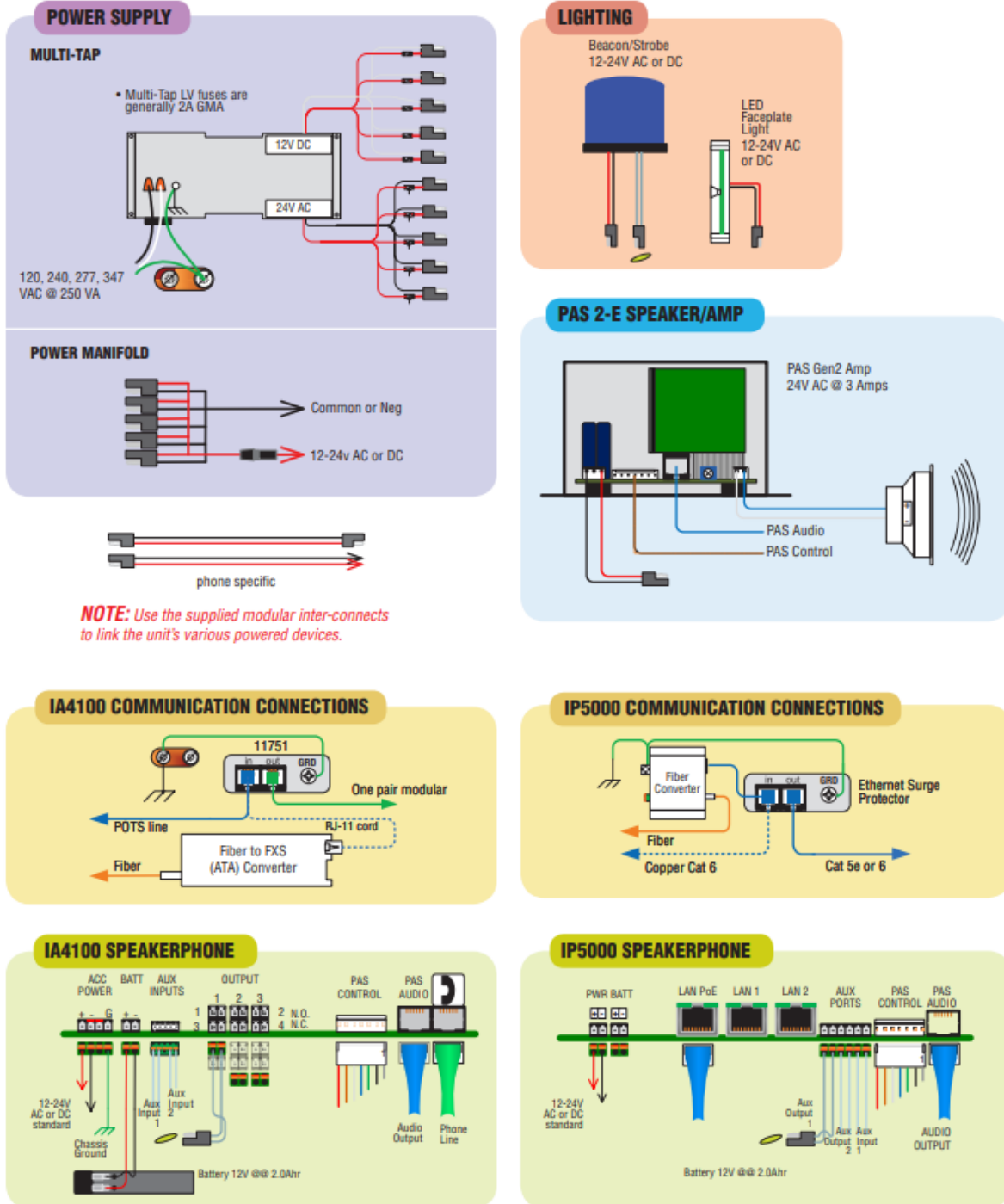


Figure 14



CB 1 Series and CB 5-s with Legacy 360° Audio Paging and Legacy Amplifier

PAS 1 - Generation 2 Rev. 1

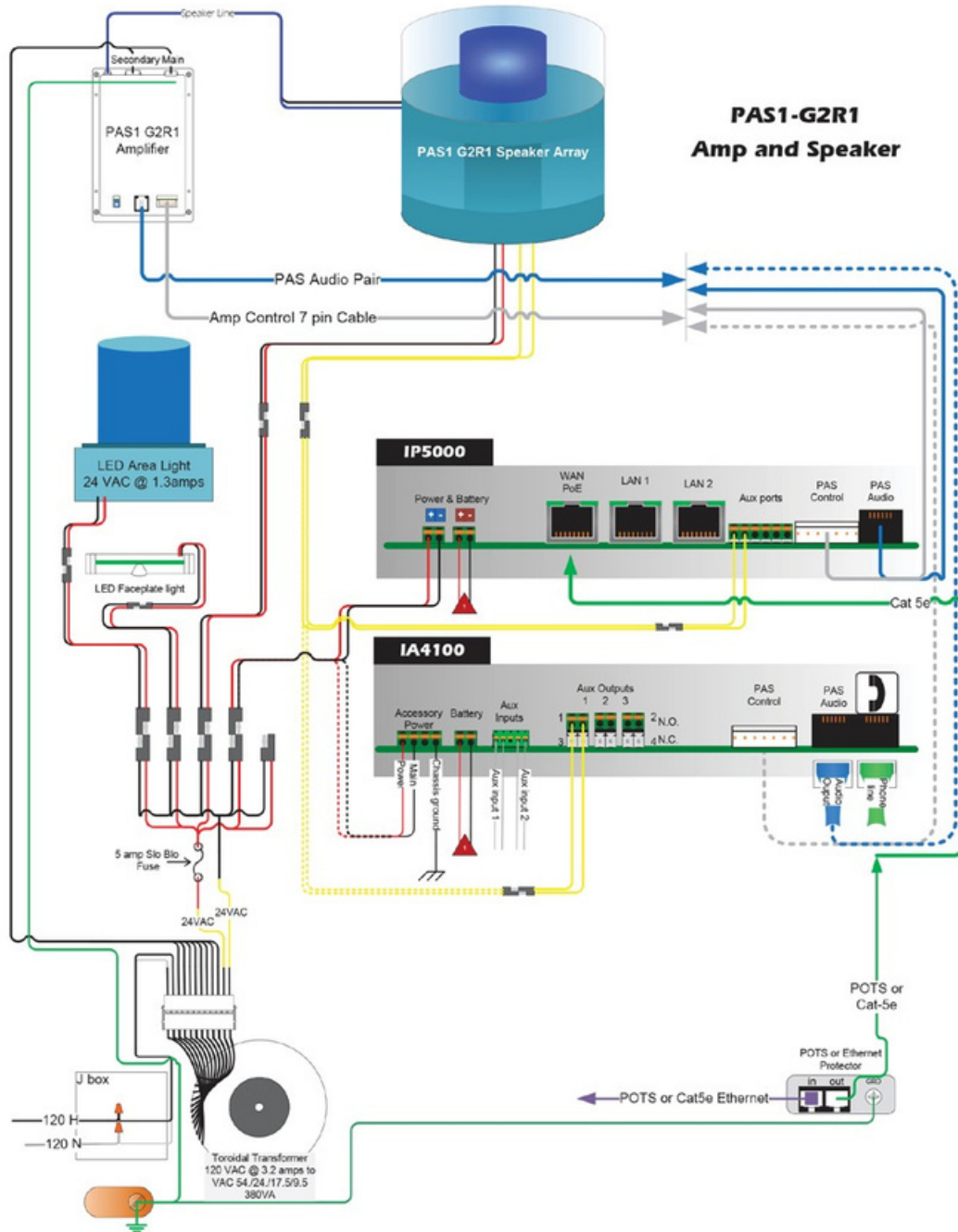


Figure 15



CB 1 Series and CB 5-s with Legacy 360° Audio Paging and Legacy Amplifier

PAS Generation 2 Rev. 2

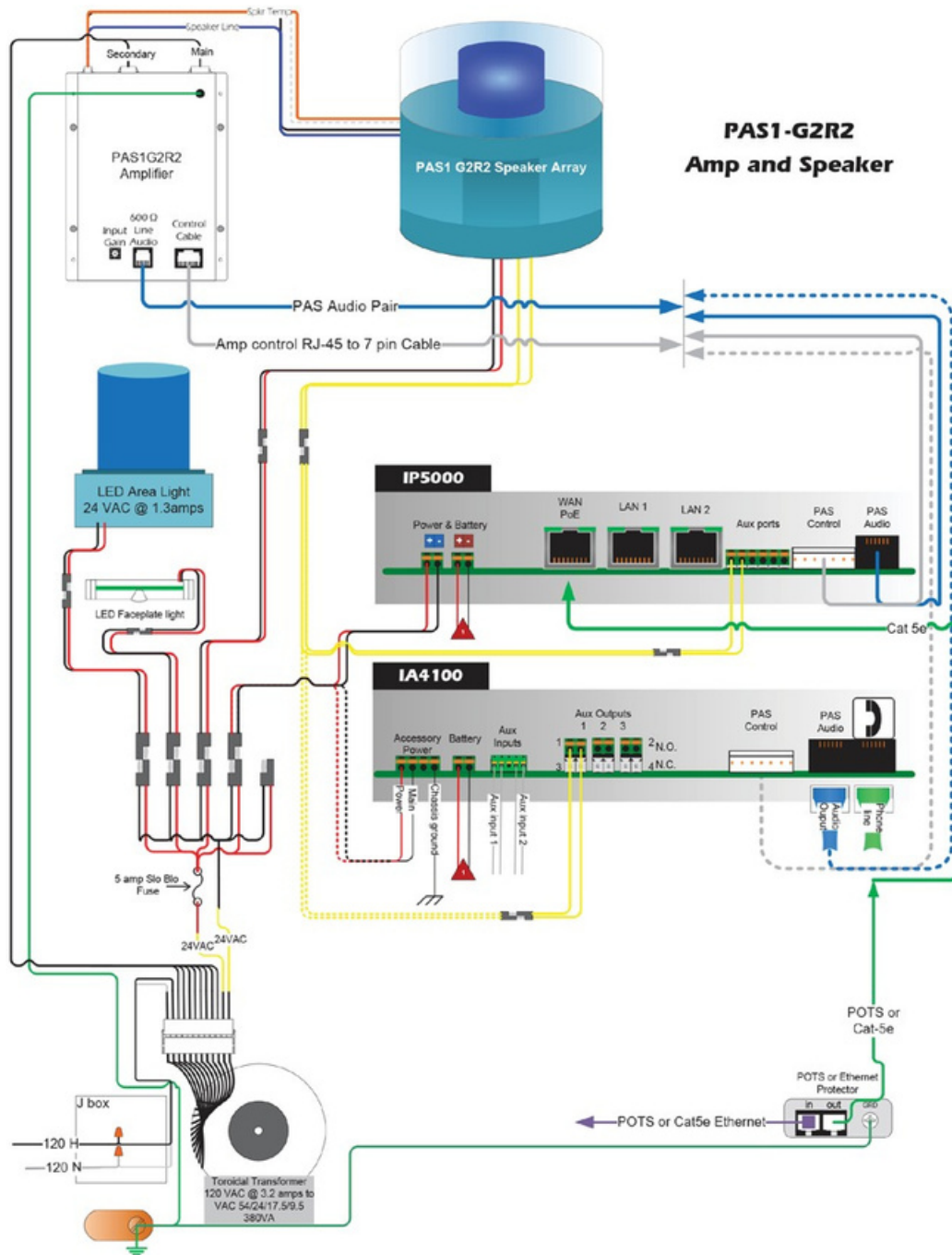


Figure 16



Detailed Legacy PAS 1 Power Schematic

Testing:

All voltage testing is performed with the system completely wired

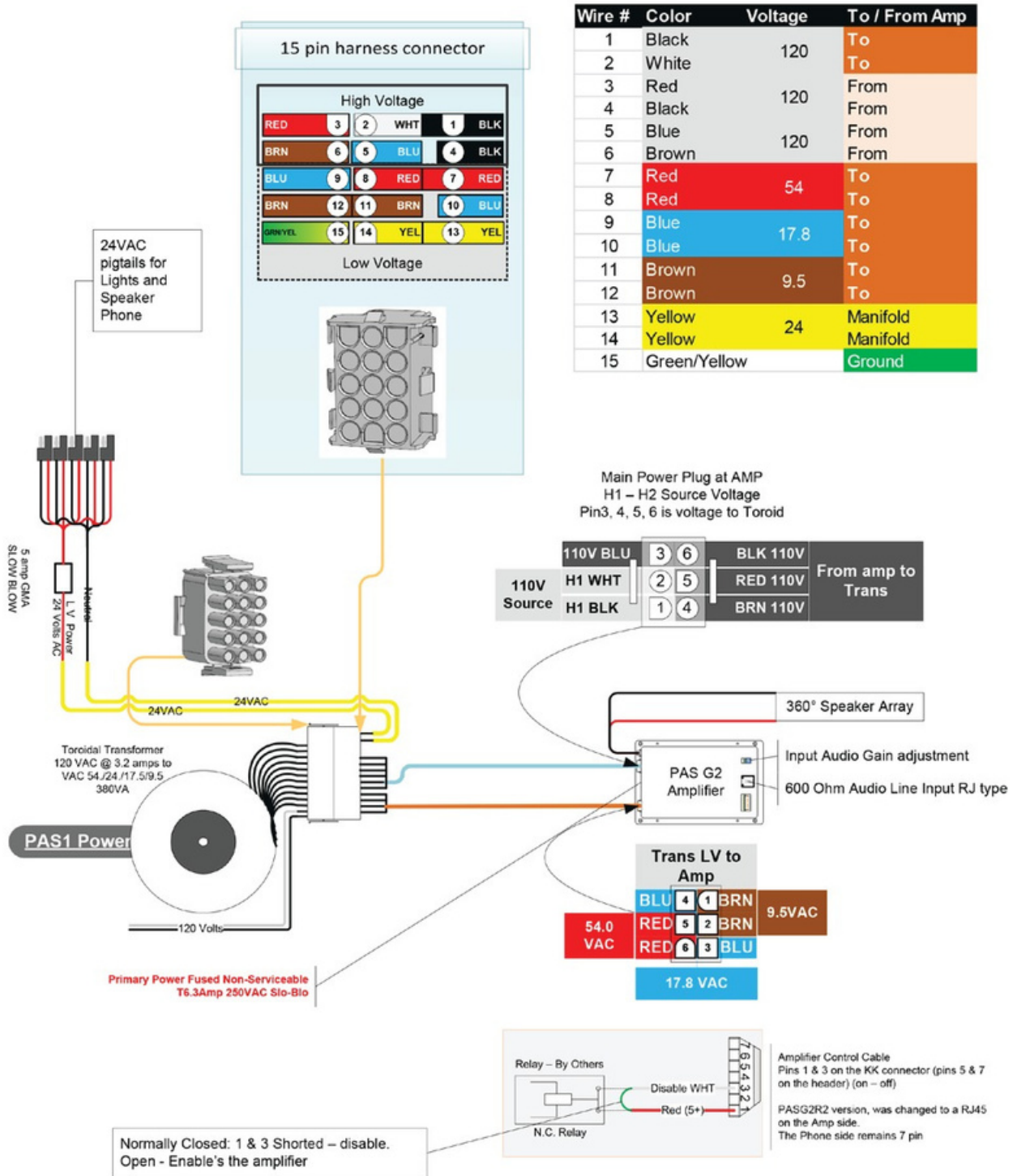


Figure 17



13 Troubleshooting

- **General Issues**
 - Please contact Code Blue Technical Support if you do not see your issue below.
- **Audio Paging not working**
 - Remove the control cable from the amp. This will turn the amp on at all times. Try a new test call.
 - Test power from the transformer to the amp.
- **Strobes not working**
 - Check the 5 amp slow blow inline fuse between the transformer and 5-finger manifold.
 - Check power connector at the 5 finger manifold and the red/black power wire from the strobe.
 - Short the yellow relay wires from the strobe to test strobe functionality. If the strobe flashes, check programming in the IA4100/IP5000 speakerphone.
- **No power to unit**
 - For CB 1 or 5 units, verify that you have 120V AC to the transformer.
 - For CB 2-e units, verify that you have either Hi-Voltage to the power brick or 24V AC to the unit if low voltage only.
 - For WM-180° units, verify you have 24V AC to the unit.
- **Volume too low/loud on amp**
 - First, adjust the volume in the IA4100/IP5000 programming. On the IA4100, the in-call command for increasing the volume is 28. To decrease the volume, the in-call command is 29. On the IP5000, the Public Address Gain can be changed under hardware settings.
 - The input gain also can be adjusted manually on the amplifier using the input gain dial.
- **Advanced Issues**
 - For advanced trouble shooting, please email technicalsupport@codeblue.com or call 800-205-7186, Opt. 3.



14 Maintenance Schedule

LEGEND

G Guard Tasks

T Technician Tasks

DAILY OR WEEKLY

G Perform functional communications check.

- Action: Press Red Button
 - Strobe activates
 - Red LED "Call Placed" light turns on
 - Message plays
 - Call connects, green LED "Call Received" light turns on
 - Confirm conversation clarity with dispatch

MONTHLY OR QUARTERLY

G Visually check lighting functions:

- Faceplate light
- Beacon/Strobe

G Visually inspect unit for damage to:

- Faceplate
- Piezo Button
- Microphone
- Speaker

T Check Batteries:

- Functioning with full charge.
- Recharging fully, including NightCharge®/Solar Units (Note: Mid-to-late afternoon inspection is recommended)

IMPORTANT NOTE: Depending on the environment in which the batteries are installed, it is recommended that batteries for Solar & NightCharge® products are fully replaced every 2-3 years.

BIANNUALLY

T Remove access door and faceplate assembly to inspect the following:

- Ensure all electrical connections are secure
- Check all phone connections for corrosion (*If corroded, clean and coat with dielectric gel or replace*)
- Ensure all battery connections are tight and clean
- Verify no stains exist around gasket areas (stains indicate leaking & gasket should be replaced)
- Verify moisture weep hole on cabinet bottom is open and unobstructed
- Verify bottom of bollards are at least 1/2 inch above footing and free of obstructions (only applies to CB1, CB5, CB9, & CBRT units)

G Apply automotive paint sealant to unit exterior for protecting finish against environmental pollutants (Suggested products include Black Magic Wet Shine Liquid Wax, Nu Finish NFP-80, and 5 Star Shine)

G Clean & coat exterior stainless steel cabinets with cleaner/polish (Suggested products include Chase Products' Champion Spray-on Stainless Steel Cleaner to help protect finish against environmental pollutants)

T Visually confirm line-of-sight is still clear to base station (i.e., confirm that new tree growth, new building construction or other obstructions are not blocking view of base station)

UNIT SURFACE MAINTENANCE

The painted and stainless steel Code Blue models require periodic care to sustain their aesthetic appearance. Units located outdoors are vulnerable to harsh environmental conditions, including UV rays, acid rain, diesel fumes and airborne iron particles (i.e., dust) which over time may cause unit discoloring. To prevent pollutants developing harmful chemical reactions on Code Blue units, an appropriate surface maintenance schedule should be adhered to. The Surface Care Frequency table below provides general guidelines to assist in configuring a schedule. Please note that the frequency of care required to guard the Code Blue unit's surface from damage will also be dictated by local environmental characteristics.

LEGEND: POLLUTANTS LEVEL

Low	★
Low/Moderate	★★
Moderate	★★★
Moderate/High	★★★★
High	★★★★★

SURFACE CARE FREQUENCY

	MONTHLY	BIMONTHLY	QUARTERLY	BIANNUAL	ANNUAL
Painted		★★★★★	★★★★	★★★	★
Stainless Steel	★★★★★	★★★★	★★★	★	

See scheduled tasks under Biannually for suggested paint sealants or stainless steel cleaners.

AVERAGE COMPONENT LIFE

Component life is based on various mechanical, operational and environmental factors. Your local Code Blue reseller can assist you with a regularly scheduled maintenance program customized to your individual site requirements.

Code Blue strongly recommends contacting a local CB reseller to establish a proactive maintenance schedule.



15 Warranty

Code Blue Corporation provides a limited warranty on this product. Refer to your sales agreement to establish the terms. In addition, Code Blue's standard warranty language, as well as information regarding support for this product while under warranty, is available at

www.codeblue.com/support

In Case of Breakdown

In case of system breakdown, discontinue use and contact Tech Support at:

technicalsupport@codeblue.com or call **800-205-7186, option 3.**

In Case of Abnormal Operation

If the unit emits smoke or an unusual smell, if water or other foreign material enters the enclosure, or if you drop the unit or damage the enclosure, power off the unit immediately and contact Code Blue Customer Service at:

customerservice@codeblue.com or call **800-205-7186, option 2.**



16 Download Information

Code Blue now has a centralized location where you can find installation, setup, information, configuration and operation instructions.

Admin Guides: www.codeblue.com/resources/guides

Firmware: www.codeblue.com/resources/firmware

Maintenance Tips: www.codeblue.com/support

Product Sheets: www.codeblue.com/resources/sheets

Specifications: www.codeblue.com/resources/specifications

For Legacy Product Information:

www.codeblue.com/legacy-products

These guides should contain all the information needed for your application. If further information is required, please contact customerservice@codeblue.com.



17 Legal & Regulatory Information

Legal Considerations

Video and audio surveillance can be regulated by laws that vary from country to country. Check the laws in your local region before using this product for surveillance purposes.

Liability

Every care has been taken in the preparation of this document. Please inform Code Blue Corporation of any inaccuracies or omissions. Code Blue cannot be held responsible for any technical or typographical errors and reserves the right to make changes to the product and manuals without prior notice. Code Blue makes no warranty of any kind with regard to the material contained within this document, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Code Blue shall not be liable or responsible for incidental or consequential damages in connection with the furnishing, performance or use of this material. This product is only to be used for its intended purpose.

Intellectual Property Rights

Code Blue Corporation has intellectual property rights relating to technology embodied in the product described in this document. This product contains open source code that also contains additional open source libraries.

Equipment Modifications

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no user-serviceable components. Unauthorized equipment changes or modifications will invalidate all applicable regulatory certifications and approvals.

Trademark Acknowledgments

Code Blue and Centry products are registered trademarks or trademark applications of Code Blue Corporation in various jurisdictions. All other company names and products are trademarks or registered trademarks of their respective companies.

Regulatory Information

Electromagnetic Compatibility (EMC)

This equipment has been designed and tested to fulfill applicable standards for:

- Radio Frequency emission when installed according to the instruction and used in the intended environment.
- Immunity to electrical and electromagnetic phenomenon when installed according to the instructions and used in its intended environments.

USA

This equipment has been tested using a shielded network cable (STP) and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense. The product shall be connected using a shielded network cable (STP) that is properly grounded.

Canada

This digital apparatus complies with CAN ICES-3 (Class A). The product shall be connected using a shielded network cable (STP) that is properly grounded.

Cet appareil numérique est conforme à la norme NMB ICES-3 (classe A). Le produit doit être connecté à l'aide d'un câble réseau blindé (STP) qui est correctement mis à la terre.

Disposal and Recycling

When this product has reached the end of its useful life, dispose of it according to local laws and regulations. For information about your nearest designated collection point, contact your local authority responsible for waste disposal. In accordance with local legislation, penalties may be applicable for incorrect disposal of this waste.

This guide should contain all the information needed for your application. If any further information is needed, please contact customerservice@codeblue.com.

Support

Should you require any technical assistance, please contact Code Blue.

Visit codeblue.com to:

- Download user documentation and software.
- Find answers to resolved problems in the FAQ database.

Report problems to Code Blue Technical Support via email at:

technicalsupport@codeblue.com or **800-205-7186**