



CB 2 Series

Model: ENBS06, ENBS07, ENBS08, ENBS09, ENBS10, ENBS15

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 **CB 2 Series** wall mount for your Code Blue application.

The **CB 2 Series** has a rugged steel construction, shatterproof Lexan Lens, industrial engineering grade reflective graphics and weather, UV and graffiti resistant paint, and is illuminated by a high-powered, 270 lumens/92 candela LED blue beacon/strobe. The **CB 2 Series** is a good fit for any indoor or outdoor application, including parking facilities.

Our unmistakable craftsmanship makes our Help Points® the most rugged on the market, withstanding the punishment of natural and manmade disasters.

Other options include:

- IP and analog phones
- Audio Paging Speaker Option
- Cellular Communication
- Long-life LED area light
- Camera & card reader openings
- Temperature Controlled automated external defibrillator(AED)



CB 2-a

CB 2-e

CB 2 with
Audio Paging
(CB 2-ap)

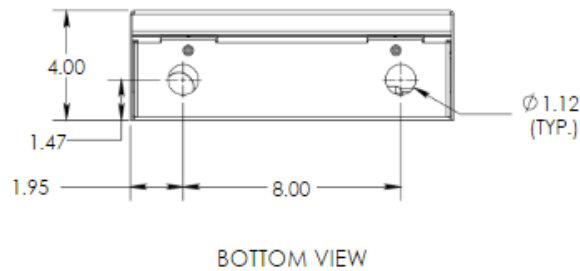
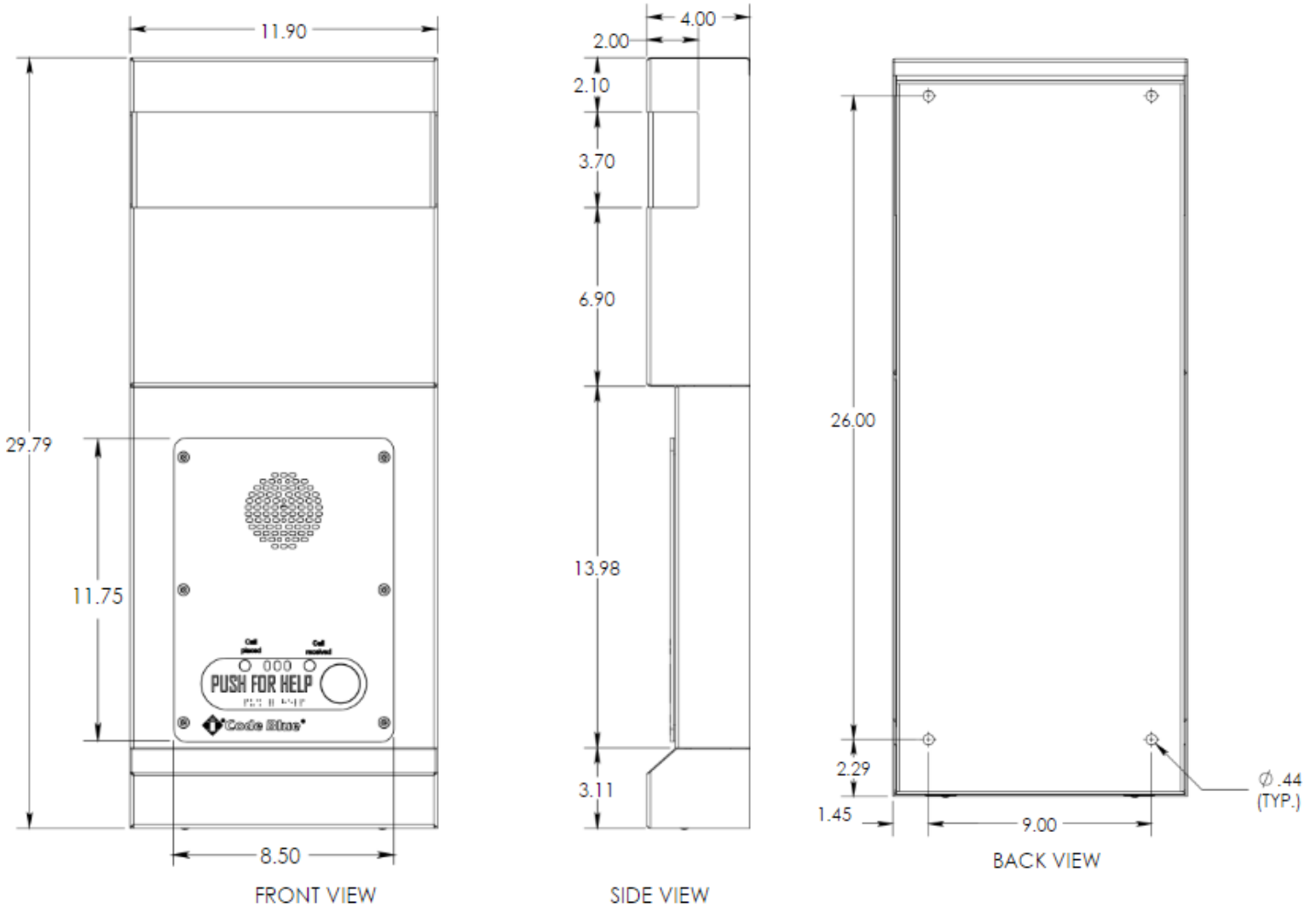
CB 2-e with
AED Housing

CB 2-s



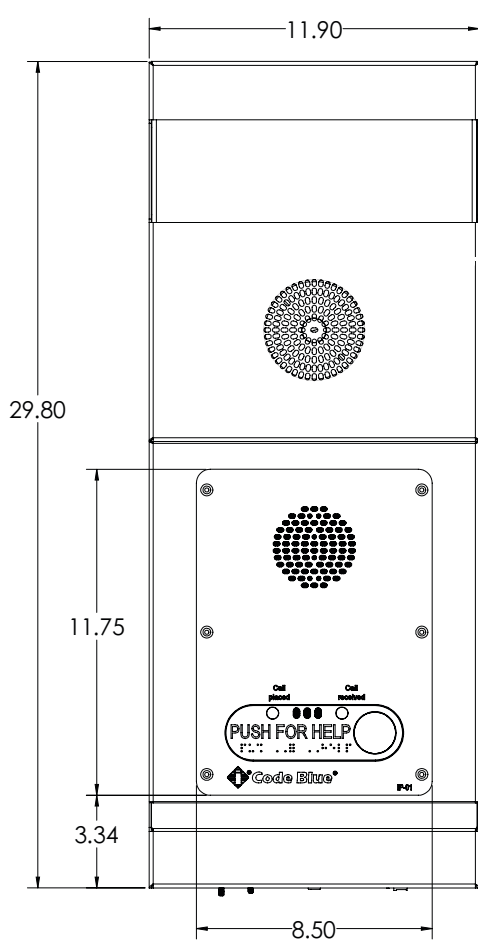
3 Dimensions

CB 2-a

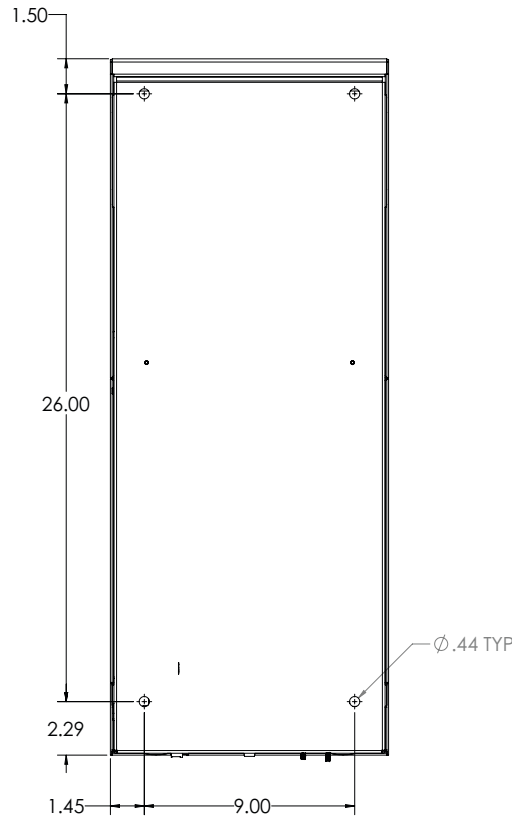




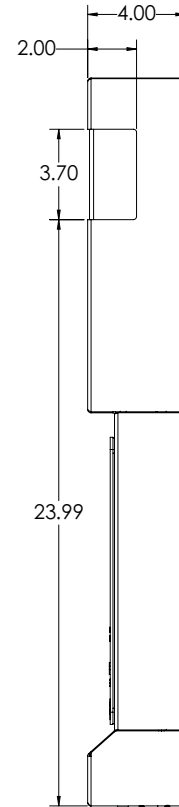
CB 2-ap



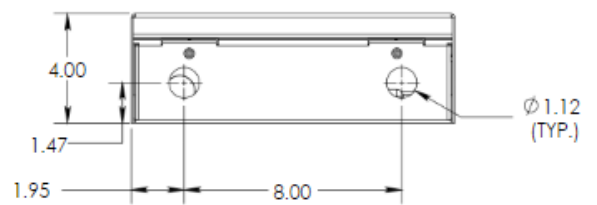
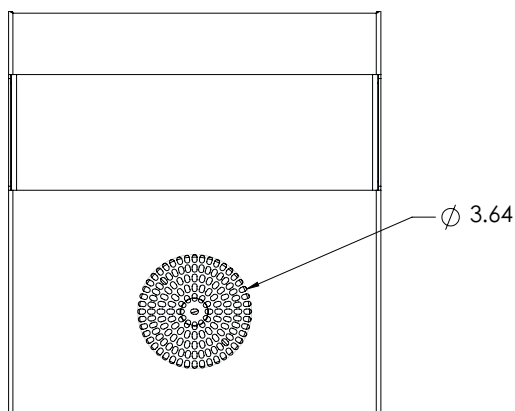
FRONT VIEW



BACK VIEW



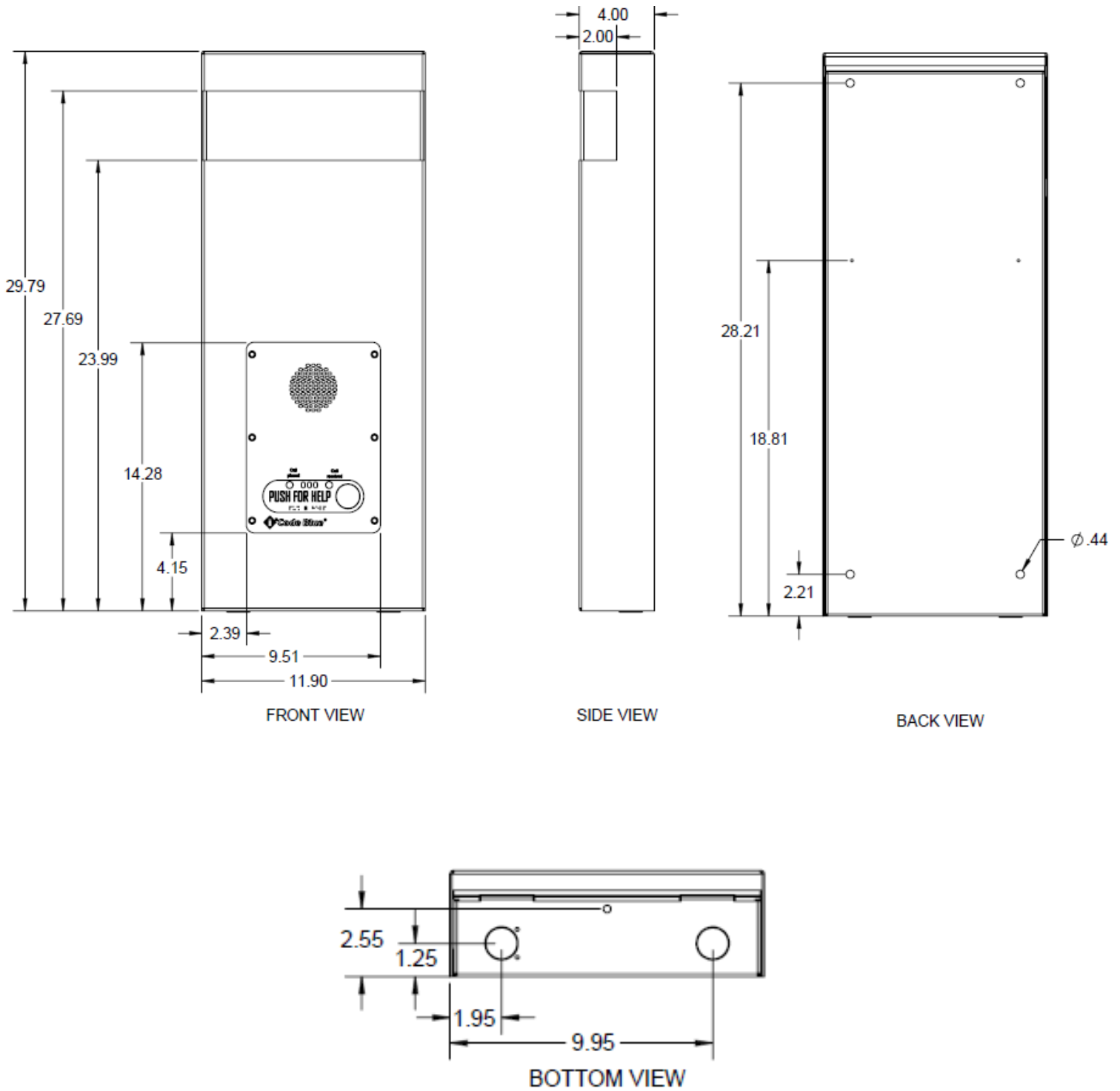
SIDE VIEW



BOTTOM VIEW

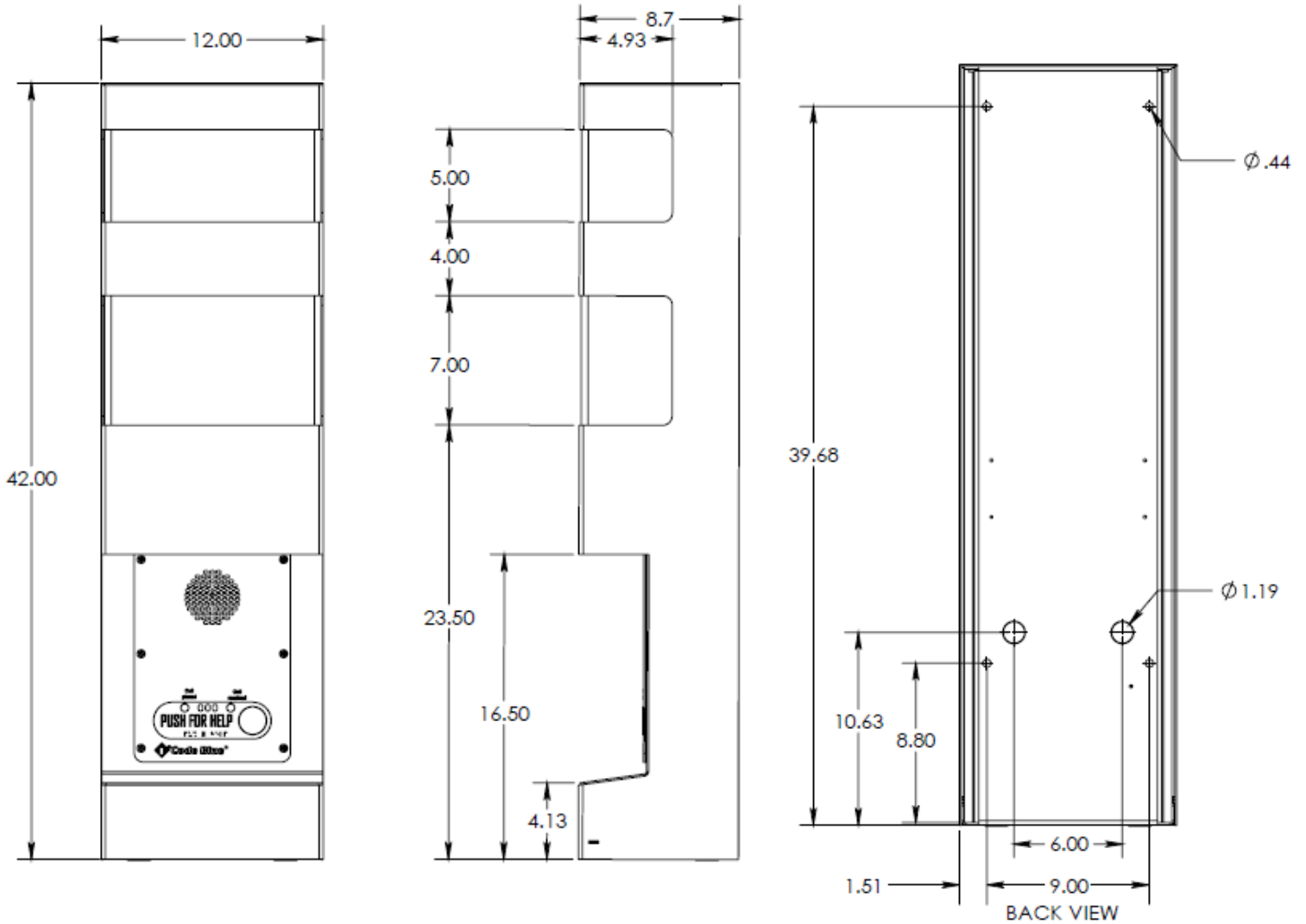


CB 2-e





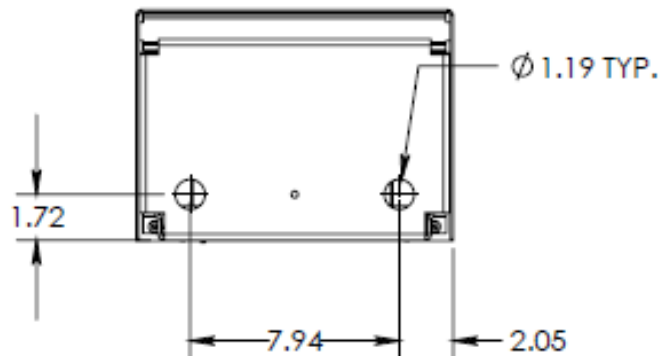
CB 2-s



FRONT VIEW

SIDE VIEW

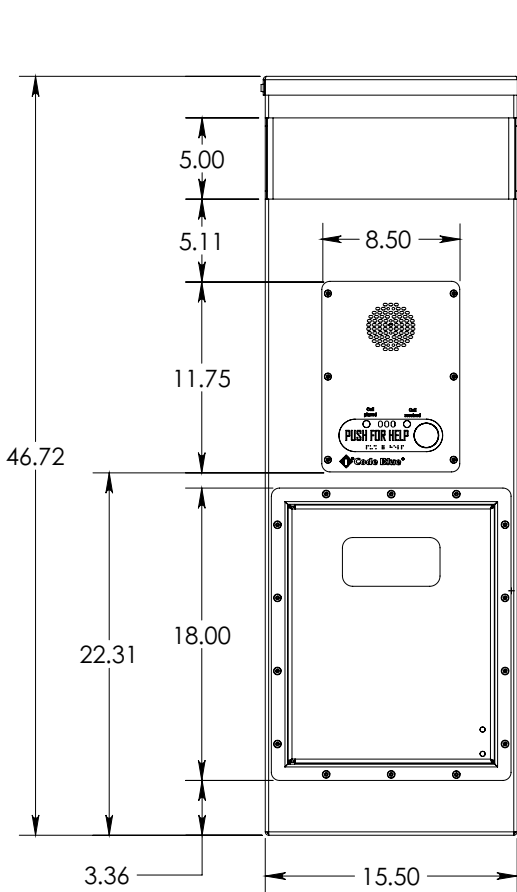
BACK VIEW



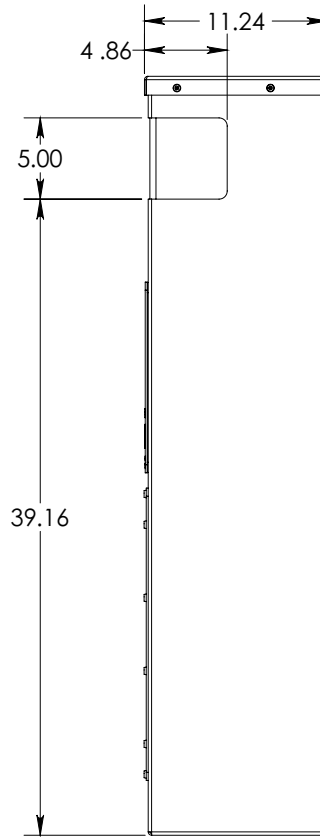
BOTTOM VIEW



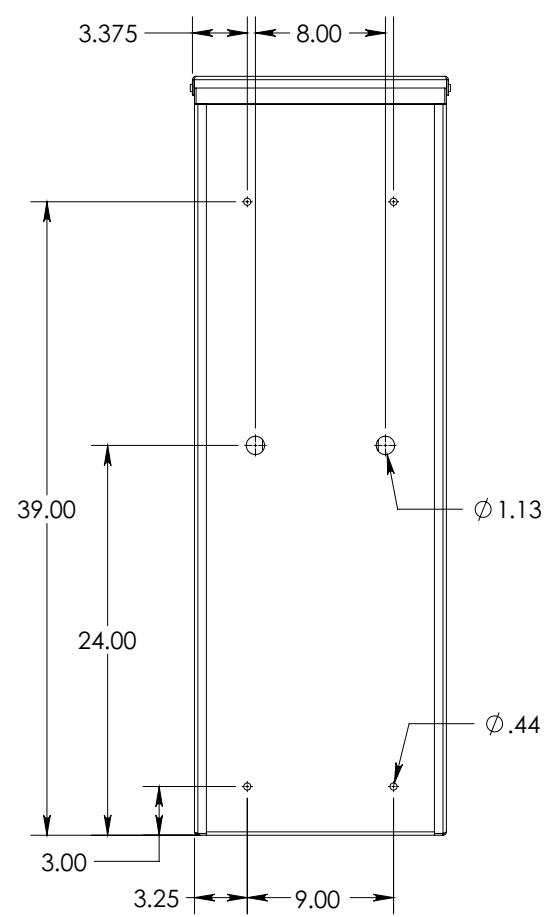
CB 2 with AED



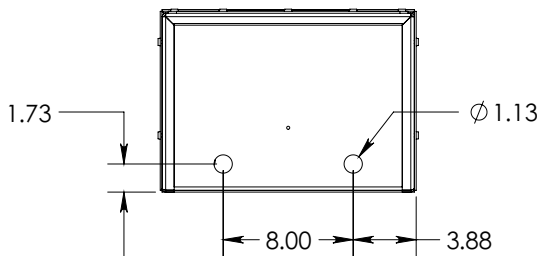
FRONT VIEW



SIDE VIEW



BACK VIEW



BOTTOM VIEW



4 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.



5 Installation Instructions

Getting Started

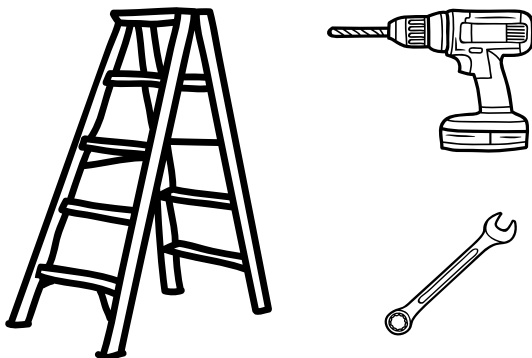
Important Notes:

- 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.

Tools Needed

All CB 2-s Units:

- Drill
- Drill bit (5/8" Masonry bit for concrete; 1/2" standard bit for wood)
- 3/8" Hex head driver bit (Security Bit)
- Level
- 3/8" Socket set
- Ladder - For remote audio paging or remote beacon/strobe only





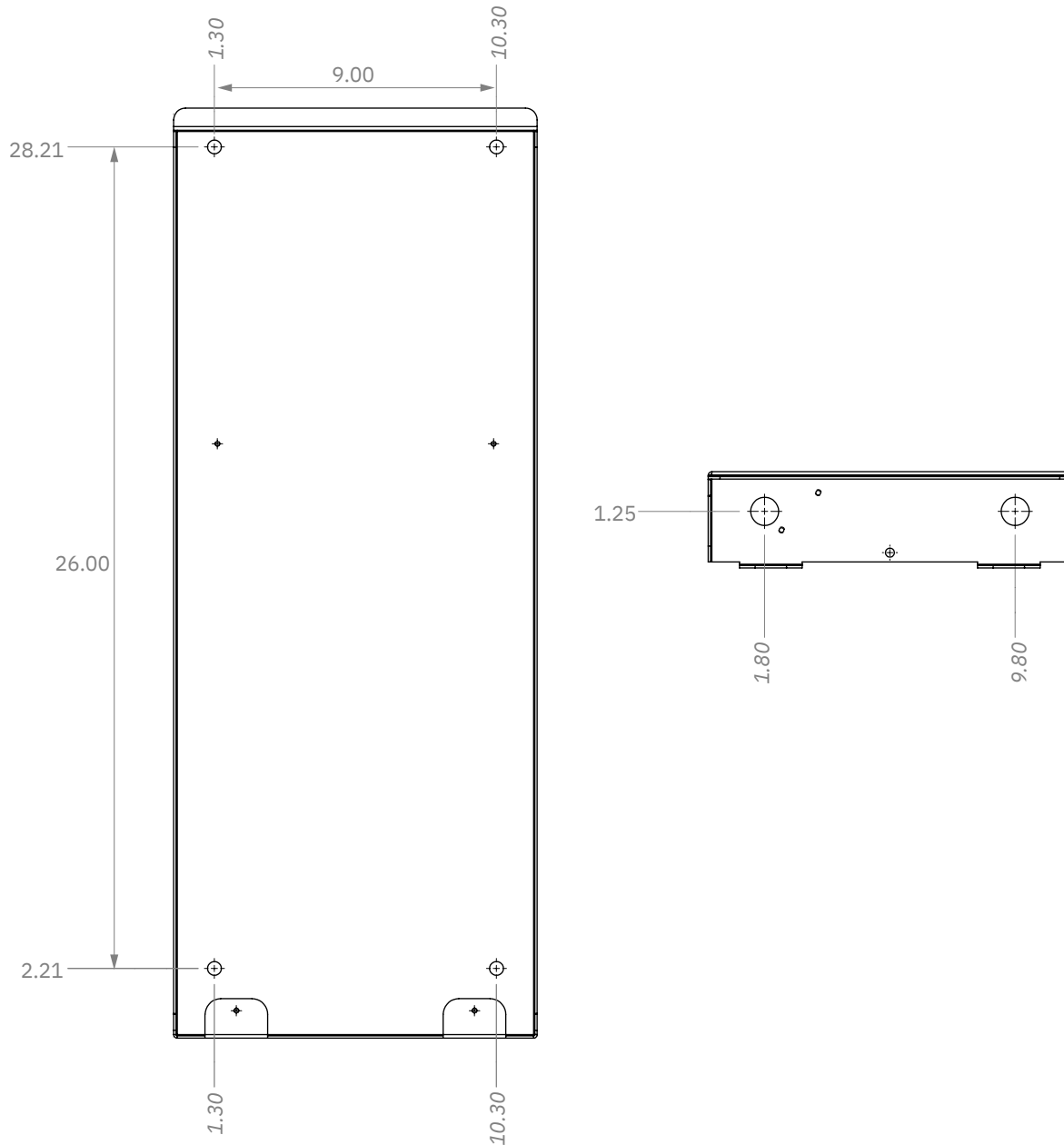
CB 2-a Installation Instructions

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, faceplate light 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-a 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.



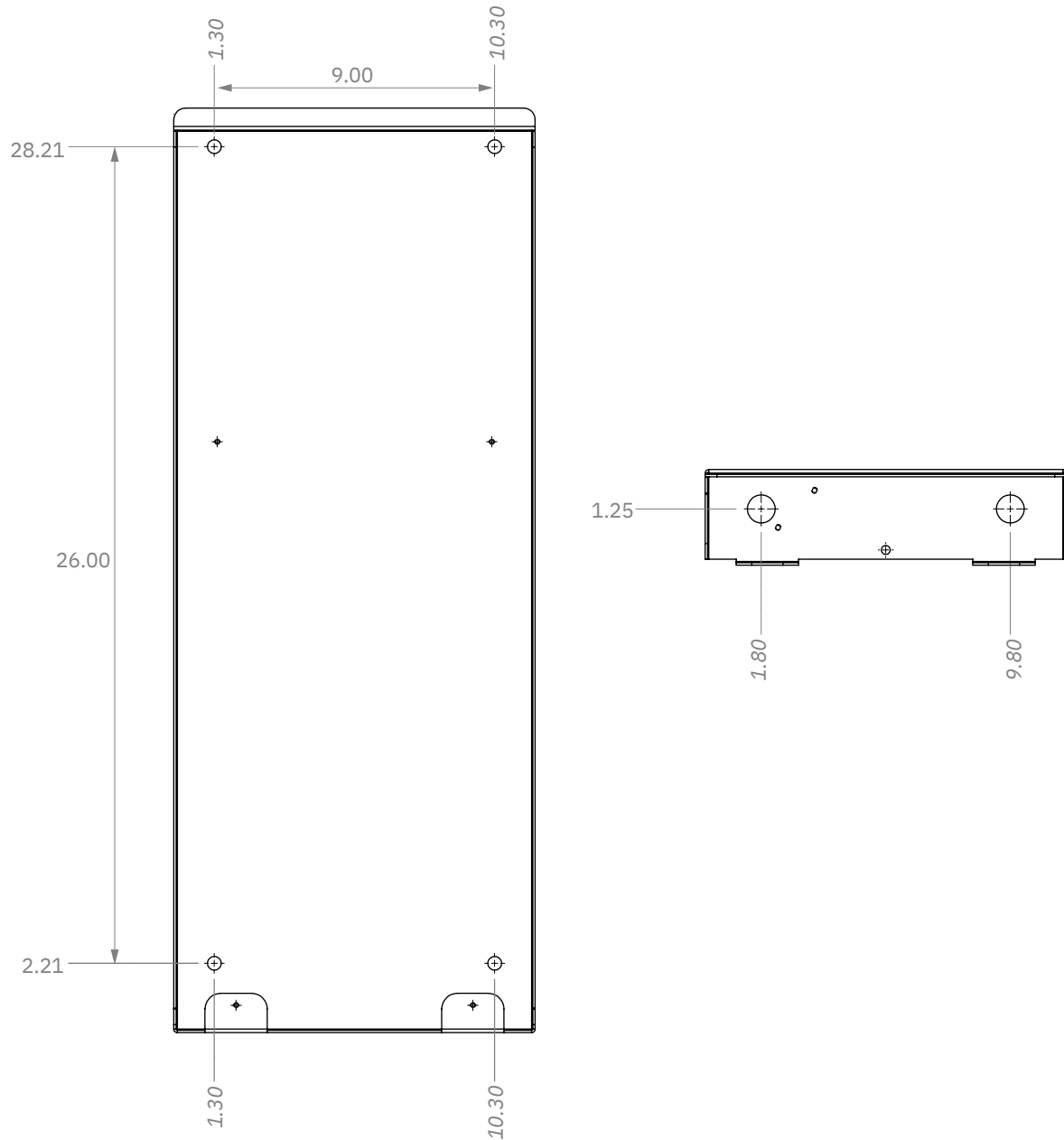
CB 2-e Installation Instructions

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-e Mounting Schematic



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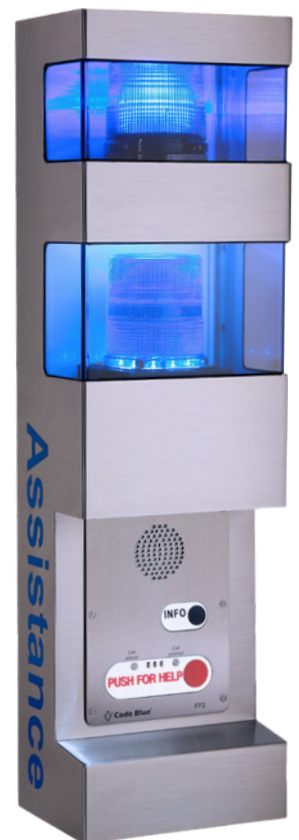


CB 2-s Installation Instructions

1. Unscrew security screw from top of unit. Lift and open unit.
2. Open or remove the unit shell.
 - Open: Allow top of shell to fall open while base of the shell remains in contact with base of backplate. Unit will prop open to the length of the safety cable so you can continue hands-free installation of the unit.
 - Remove: Allow unit shell to fall open to the length of the safety cable. Unplug the area light and strobe light, and disconnect the safety cable to fully detach the front face. Set aside for easier access to mounting holes.
3. Using a level and measuring tape, mark the appropriate height and mounting hole placement by referring to the wall mounting diagram on page 8, or holding the the unit against the wall as a template.

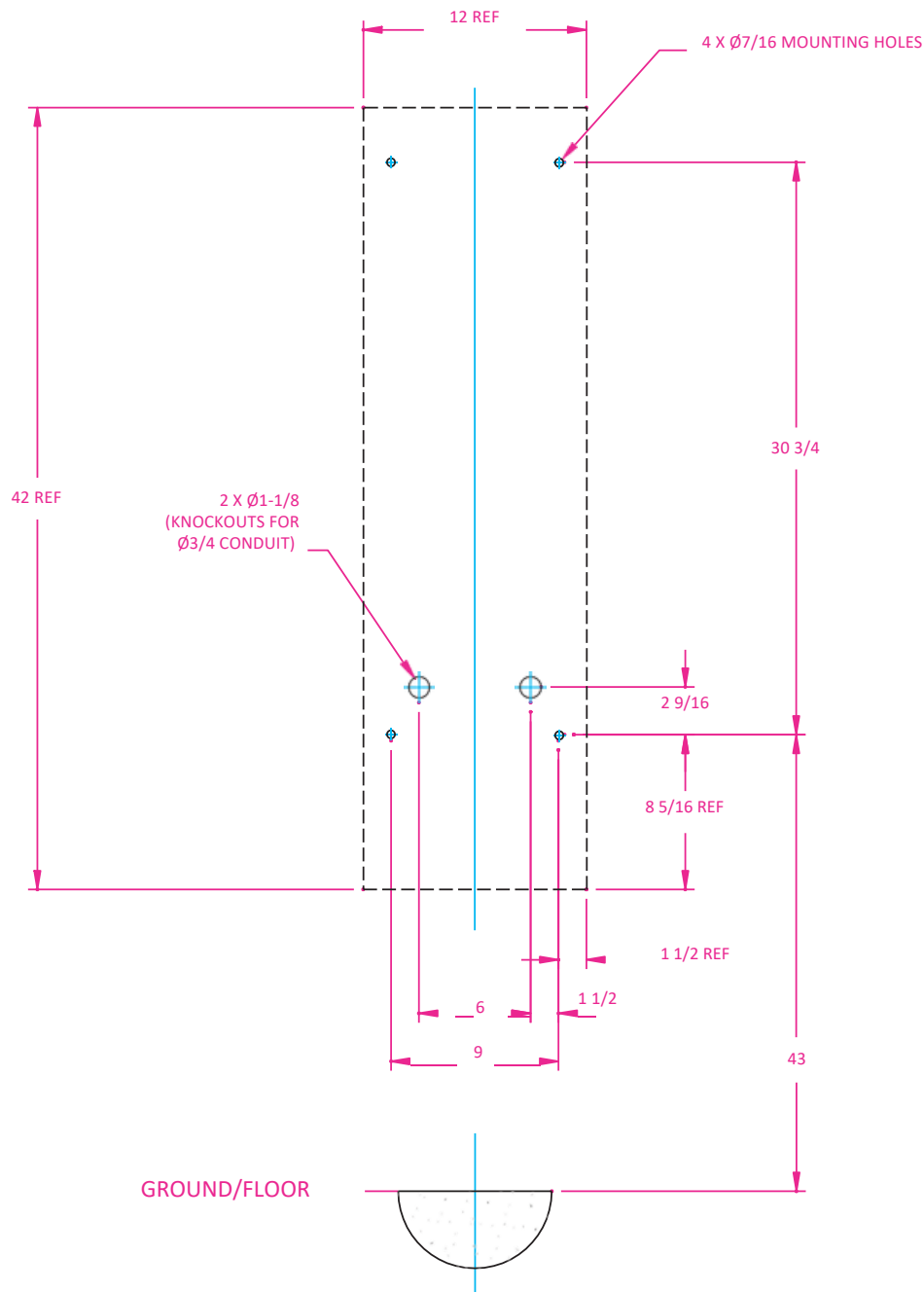
NOTE: In order to comply with the Americans with Disabilities Act (ADA) of 1990, the speakerphone button(s) should be positioned between 34 and 48 inches from grade level. (Consult an ADA specialist in your area to verify local and federal guidelines.)

4. Using a 3/8" drill bit, drill the pilot holes
5. Insert anchors into pilot holes. (For concrete walls only: If mounting to wood wall, skip this step)
6. Pre-assemble bolts into unit mounting holes with washers placed on the bolt in order of:
 - Steel washer
 - Rubber washer
 - Unit backplate
 - Rubber washer
 - Steel washer
7. Holes in the back and bottom of the unit have been provided for running conduit. If conduit is prepared, lift the unit up to the wall and run wires into the unit:
 - through the two backplate conduit holes (if conduit is coming from the wall behind), or
 - through the two bottom conduit holes (if conduit is external coming from below the unit).
8. Using a 3/8 drill bit or ratchet, secure the bolts to affix unit to the wall.
9. Reattach Light Bracket.
10. Reattach the outer shell: Holding the shell perpendicular to the base of the backplate, hook the bottom hinge into the bottom of the back plate. Swing the shell up and fasten the safety cable to the eyehook.
11. While the unit shell is propped open on the safety cable, connect electrical wiring to incoming power supply
12. Push the shell closed and fasten the outer shell to the back plate using two #10 countersunk security screws.





CB 2-s Mounting Schematic



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.

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.



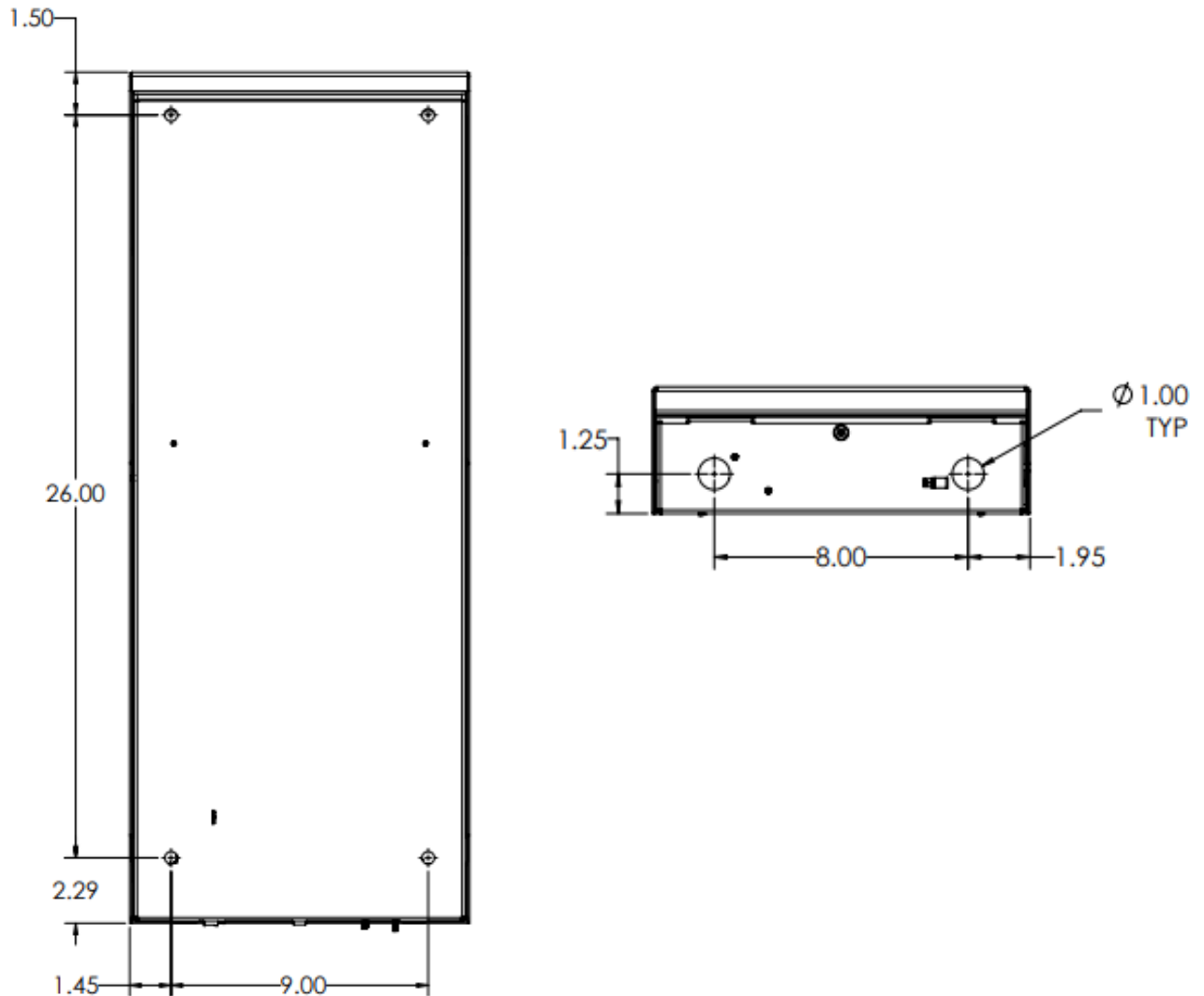
CB 2-ap (Audio Paging) Installation Instructions

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.

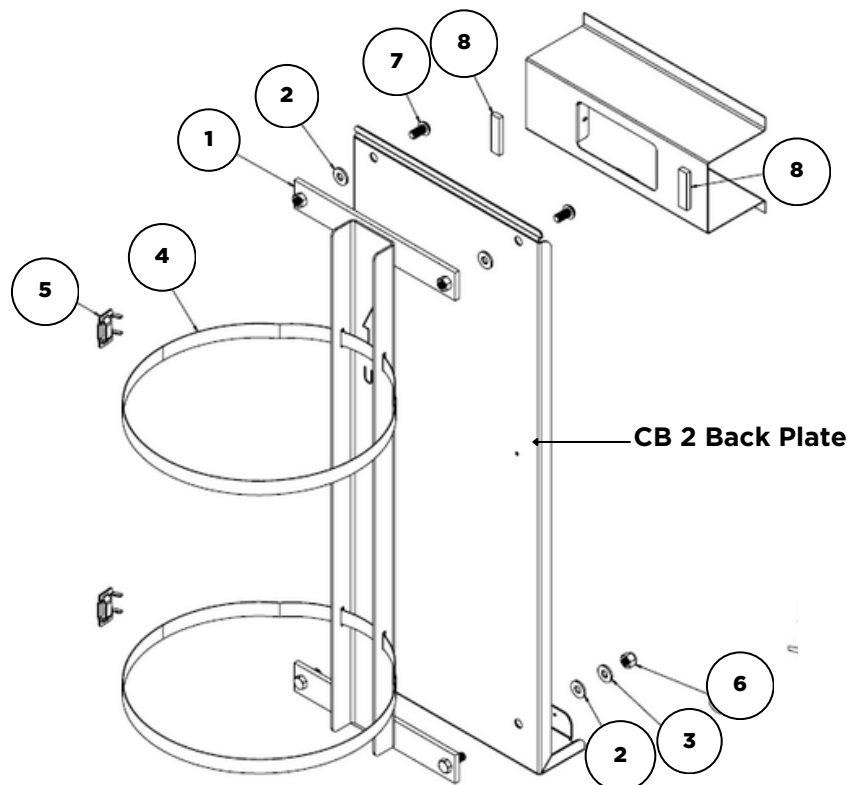


6 Alternative Mounting Options

Pole Mounting Kit Installation Instructions

IMPORTANT NOTE: Minimum Pole Diameter: 4.0"

- **THREAD MOUNTING STRAPS THROUGH SLOTS**
 - Thread mounting straps(4) through slots on pole mount bracket(1).
- **HOLD BRACKET TO POLE**
 - Set the height of the bracket(1) 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(4) from carton as needed. With ears of buckle(5) 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**
 - Align & place the back plate of the unit over the 2 studs located on the bottom of the pole mount bracket.
 - First place a rubber washer(2), followed by a steel washer(3) over each stud.
 - Secure in place with a nylock nut(6).
 - Place a button head(7) hex drive screw through each top hole in the back plate, followed by a rubber washer(2) between the back plate and the pole mount bracket(1).
 - Tighten the button head hex drive screws to secure in place.
 - Prior to re-attaching the front cover of the unit, apply two pieces of foam(8) to the back of the strobe light bracket as shown below in order to prevent the unit from rattling when finished.

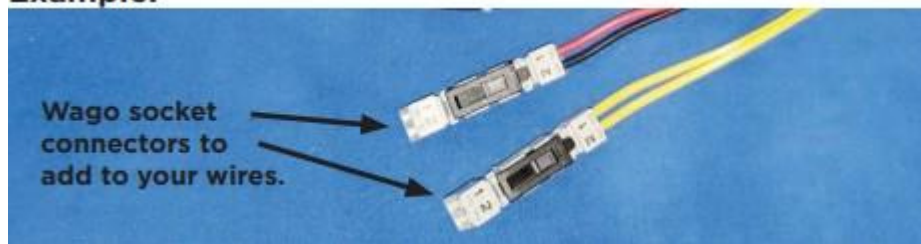




7 How to Update Connectors

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.

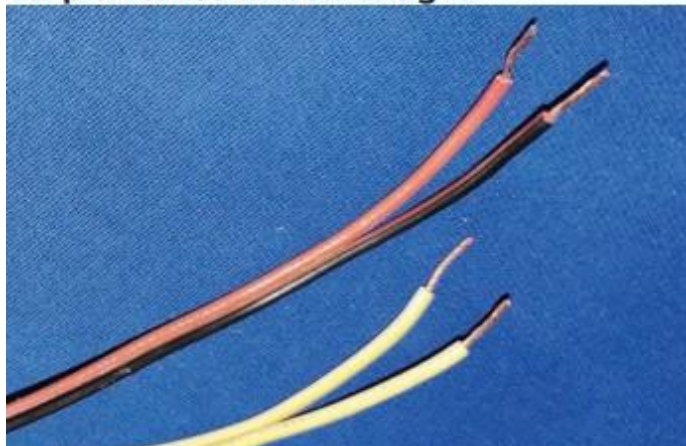
Example:



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.





8 Remote Mount Beacon/Strobe Installation

ATTACH J-BOX TO THE POLE

- Thread the banding (B) through the pole bracket (A) located on the backside of the J-box (C).
- Wrap the banding around the pole. Cut the banding to desired length.
- Using a screwdriver or nut driver, tighten the banding and make sure that the unit is in the desired location.

NOTE: J-box must be positioned so weep hole faces down.

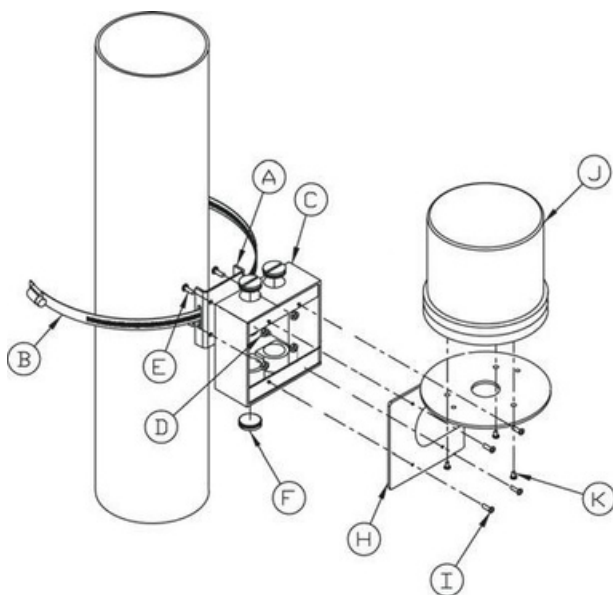
ATTACH LIGHT TO BRACKET

- Using the three M4 X 8 screws enclosed (K), fasten the strobe (J) to the round portion of the strobe bracket.

NOTE: If the beacon/strobe is mounted upside-down, a drain hole must be drilled into the lens to prevent it from filling with water.

ATTACH LIGHT AND BRACKET TO THE J-BOX

- Connect all wiring from the strobe to the wiring from the unit inside of the J-box using wire nuts.
- Attach strobe bracket to the J-box using four 6-32 X 1/2 screws as shown

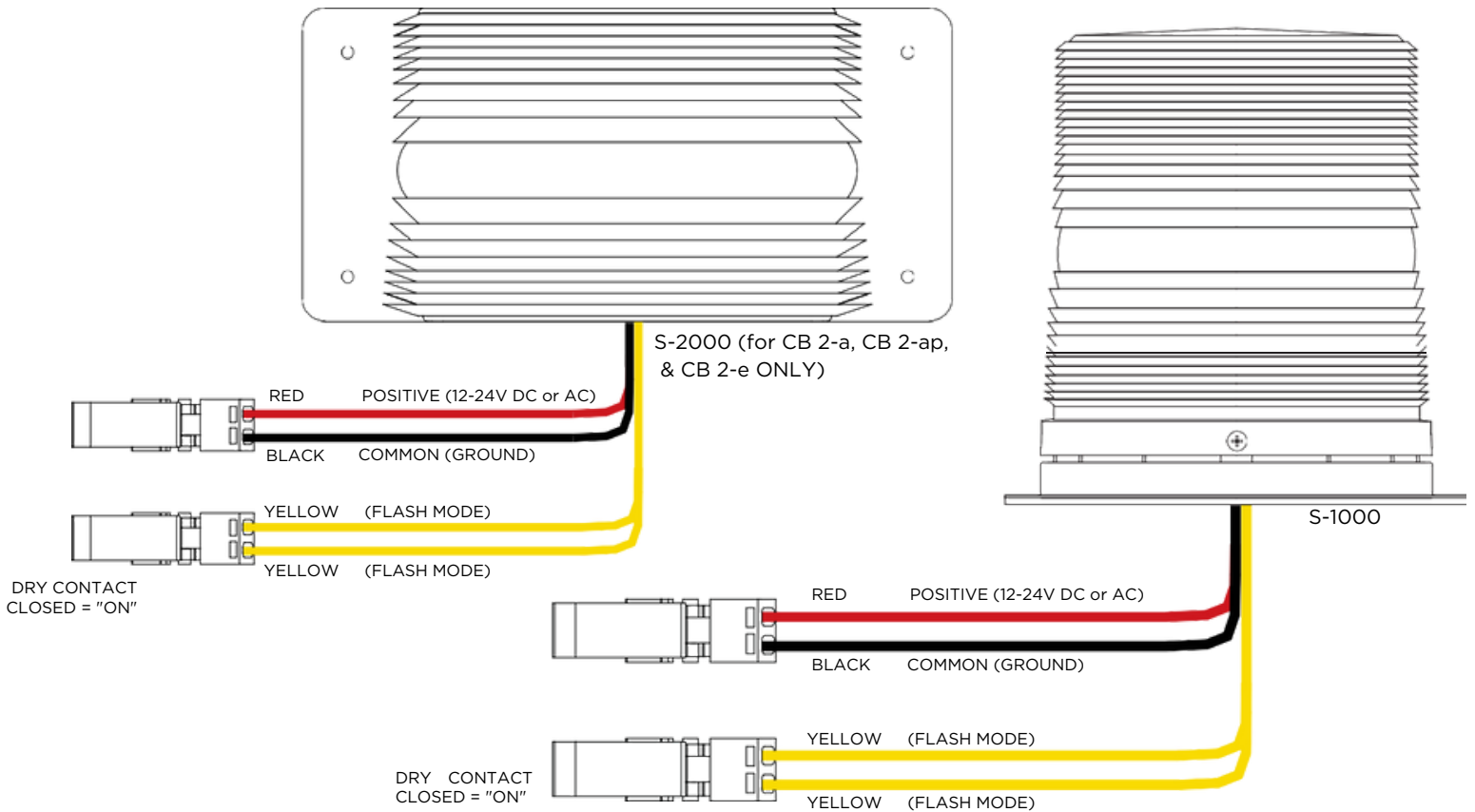


- A - pole-bracket
- B - banding
- C - J-box
- D - pole-bracket mount nut (4 each)
- E - pole-bracket mount screw (4 each)
- F - conduit plug
- H - strobe-bracket I - 6-32 X 1/2 screws (4 each)
- J - strobe light
- K - M4 X 8 screws (3 each) (Low voltage)
- K - 10-24 X 3/4 screws (2 each) (High voltage)

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.



Strobe Management Instructions



NOTE: Instructions pertain to Model S-1000 LED Beacon/Strobe, Model S-1050 LED Beacon/Strobe and Model S-2000 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
24	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.		



9 AED Access and Maintenance Guide

The following four methods can be used to access the Automated External Defibrillator (AED) device:

1. When the red button is depressed, the unit will make a call. After the call has been answered, the answering party can then depress the appropriate in-call command on their telephone keypad. This will release the door latch, giving the caller access to the AED device.
2. The units have a key fob supplied at the time of purchase. This key fob can be used within approximately a 20-foot radius to release the door latch, giving the caller access to the AED device.
3. The unit can be called and placed into two-way monitor mode. At this time, the person calling the unit can depress the 6 key on their telephone keypad which, will provide access to the AED device.
4. The access panel on the back of the Code Blue unit is removed and the manual latch release is pulled, granting access to the AED device.

Typically, AED manufacturers recommend that the device be checked once per week for proper operation. Some units will give an audible “chirp” if the self diagnostics have failed and the unit needs service; others may use another indicator to verify its status. Refer to manufacturers’ maintenance instructions for correct diagnostic testing to ascertain whether the device requires service or not.

In addition, review the manufacturer’s replacement policy for pad and battery replacement. Pay close attention to the AED temperature specifications and note that the life of the AED battery can be greatly affected by extreme heat or cold environments, reducing the capacity by up to 50 percent.

Additional AED Housing key fobs are available under Part #41107.

Each Code Blue unit can sync up to 40 different fobs. If a new user key fob is added, then the rule is “first in, first out”. For example, No. 41 will push out the first user of the system.

PROGRAMMING:

Open the Code Blue unit (our special security bit will be required). Once inside, you will see the door controller (pictured below).

To program, insert a small screw driver into the hole next to the green light and hold down the button inside. When the green light starts flashing, hold down the button on the FOB until the green light is solid. The fob and controller will be synced.





10 Power Requirements

The following tables on pages 27-30 include **CB 2 Series** 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



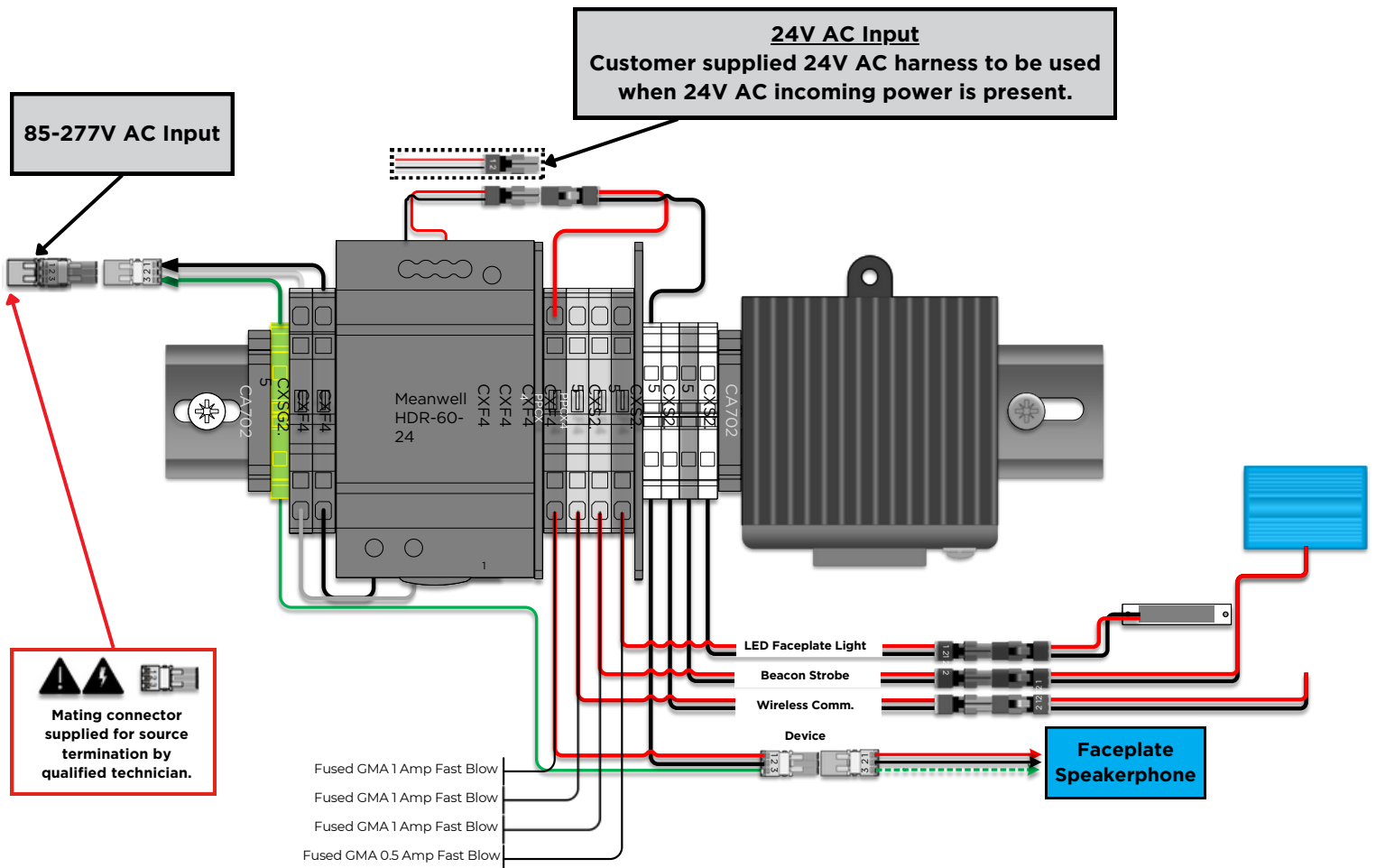
11 WIRING DIAGRAMS

CB 2-a & CB 2-e 24-277V AC DIN Rail Power System

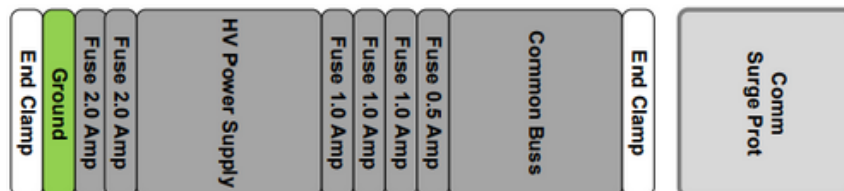
For installations with 24-277V AC incoming power on site. Provides flexibility for future power updates compared to the 24V AC only option.

Used in the following configurations:

- Standard CB 2-a - No Cellular or Audio Paging Options
- Standard CB 2-e - No Cellular or Audio Paging Options
- CB 2-a w/ Cellular Communication
- CB 2-e w/ Cellular Communication



DIN Rail Layout





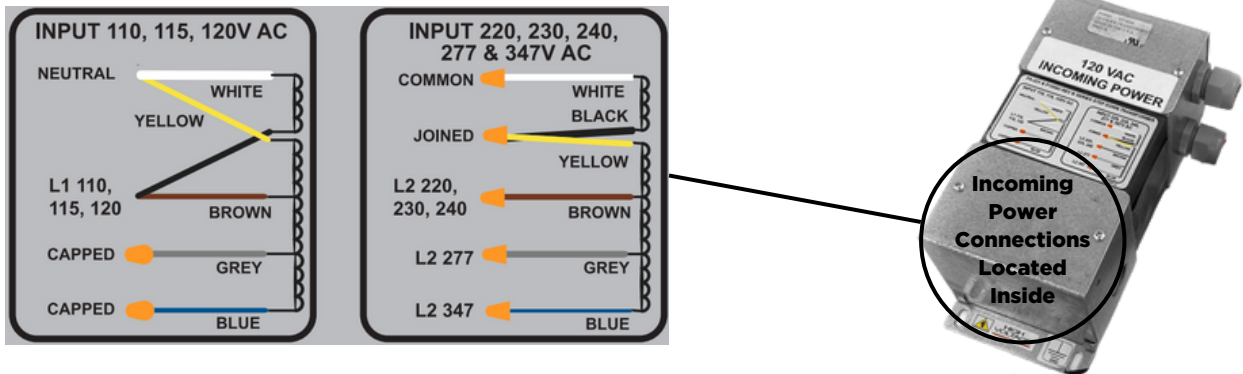
CB 2-s 110-347V AC Standard Wiring with Multi-Tap Transformer (Power Brick)

For installations with 110-347V AC incoming power on site.

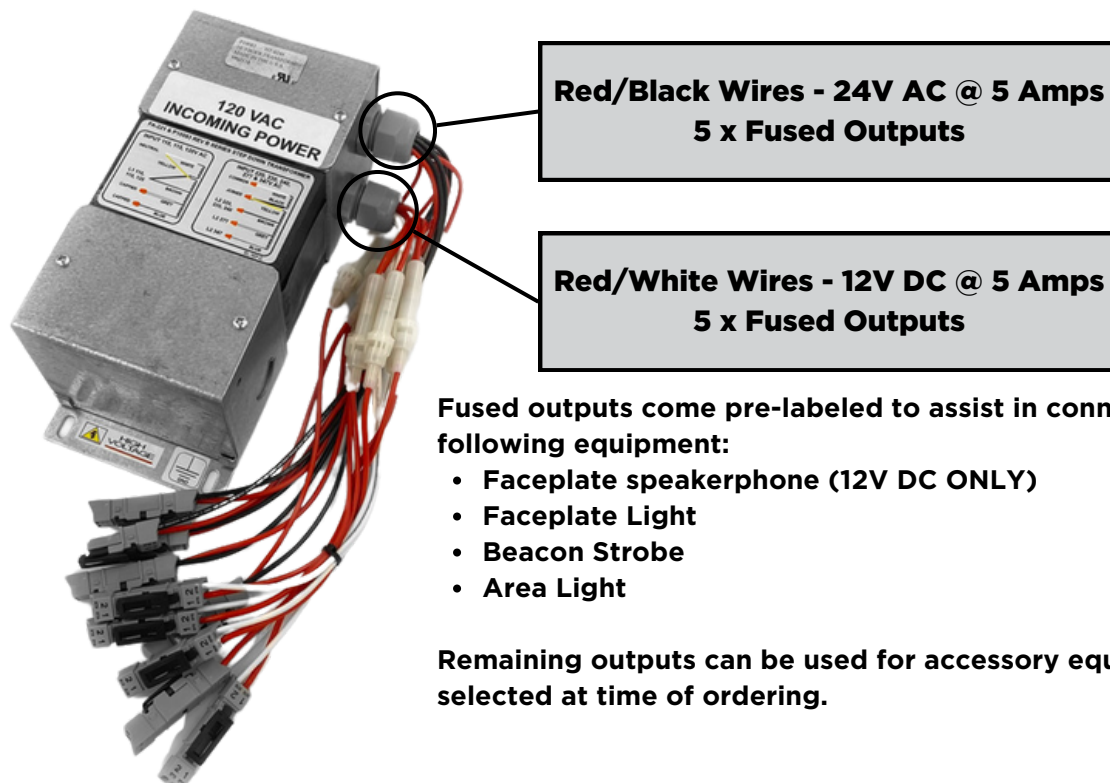
Used in the following configurations:

- Standard CB 2-s - No Cellular Communication
- CB 2-s with Cellular Communication

Incoming power connection configurations:



Output Options:



Fused outputs come pre-labeled to assist in connecting the following equipment:

- Faceplate speakerphone (12V DC ONLY)
- Faceplate Light
- Beacon Strobe
- Area Light

Remaining outputs can be used for accessory equipment selected at time of ordering.

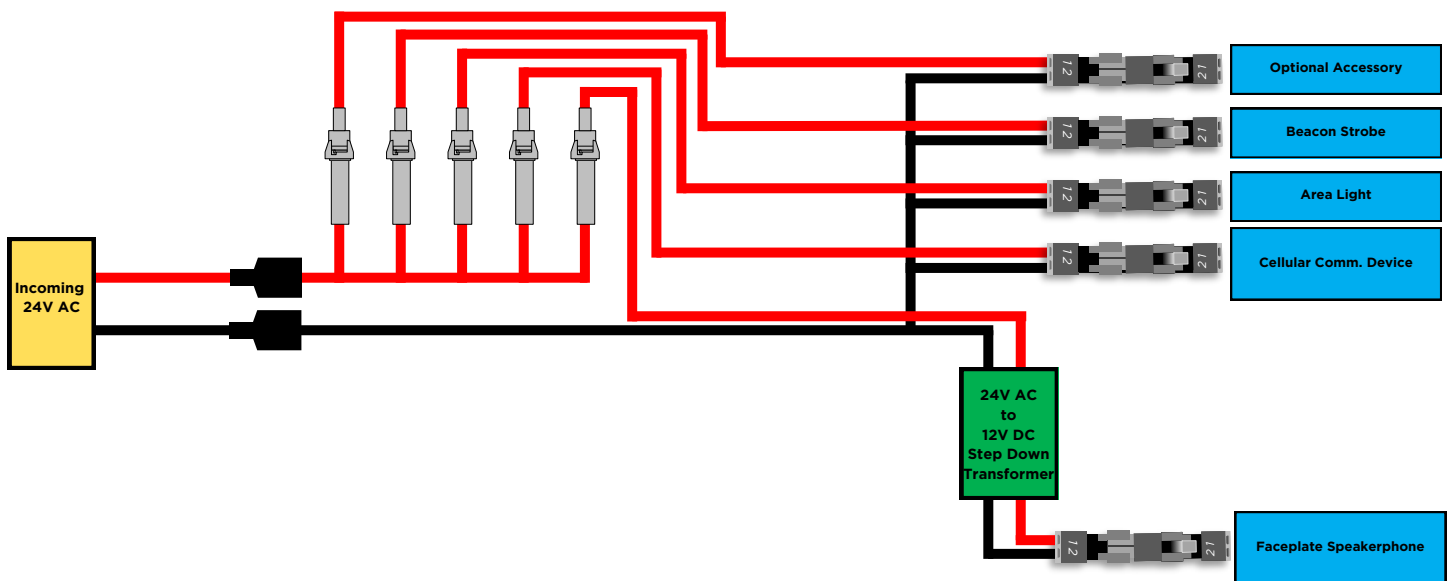


CB 2-s 24V DC Standard Wiring

For installations with 24V AC incoming power on site.

Used in the following configurations:

- Standard CB 2-s - No Cellular Communication
- CB 2-s with Cellular Communication



IMPORTANT NOTE: LS1000 speakerphones operate on 12V DC only. The use of a 24V AC to 12V DC step-down transformer must be installed prior to connecting the power system to the speakerphone.

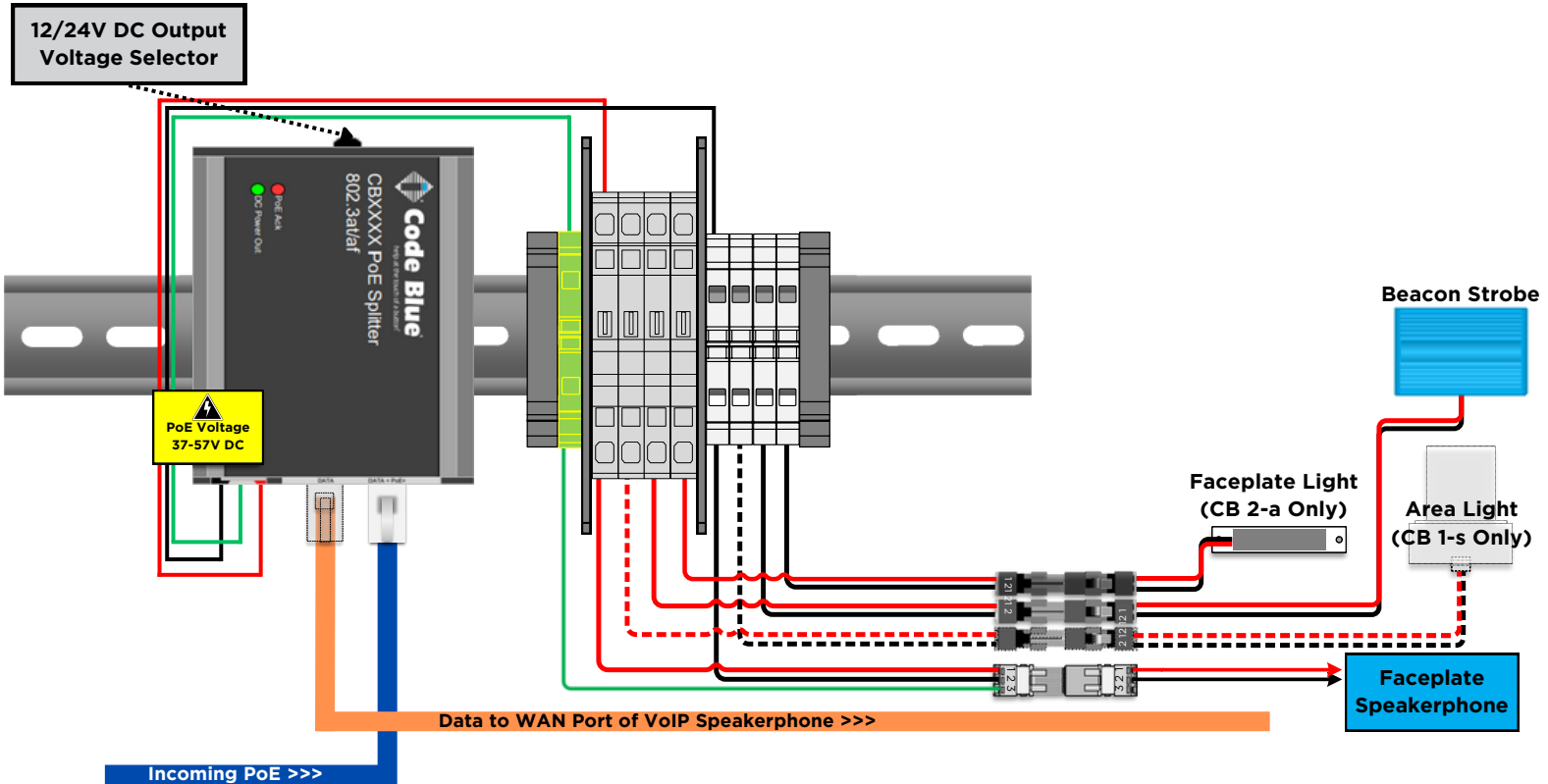


CB 2-a & CB 2-e PoE Standard DIN Rail Wiring

For installations with PoE incoming power on site.

Used in the following configurations:

- Standard CB 2-a - No Cellular Communication
- Standard CB 2-e - No Cellular Communication
- Standard CB 2-a with Cellular Communication
- Standard CB 2-e with Cellular Communication



DIN Rail Layout



Order of Connection

1. Connect Lighting & Communication devices to power system via Wago plug & socket connectors.
2. Connect RJ45 ethernet cable (Cat5e or Cat6) from "Data" port on PoE splitter to the WAN port of the VoIP speakerphone.
3. Plug incoming PoE ethernet RJ45 cable (Cat5e or Cat6) into "Data + PoE" port on PoE splitter. Splitter will light up accordingly indicating passing of DC voltage.

IMPORTANT NOTE: LS1000 speakerphones operate on 12V DC only. If the 24V DC output is selected on the PoE splitter, the use of a 24V to 12V DC step-down transformer must be installed prior to connecting the power system to the speakerphone.

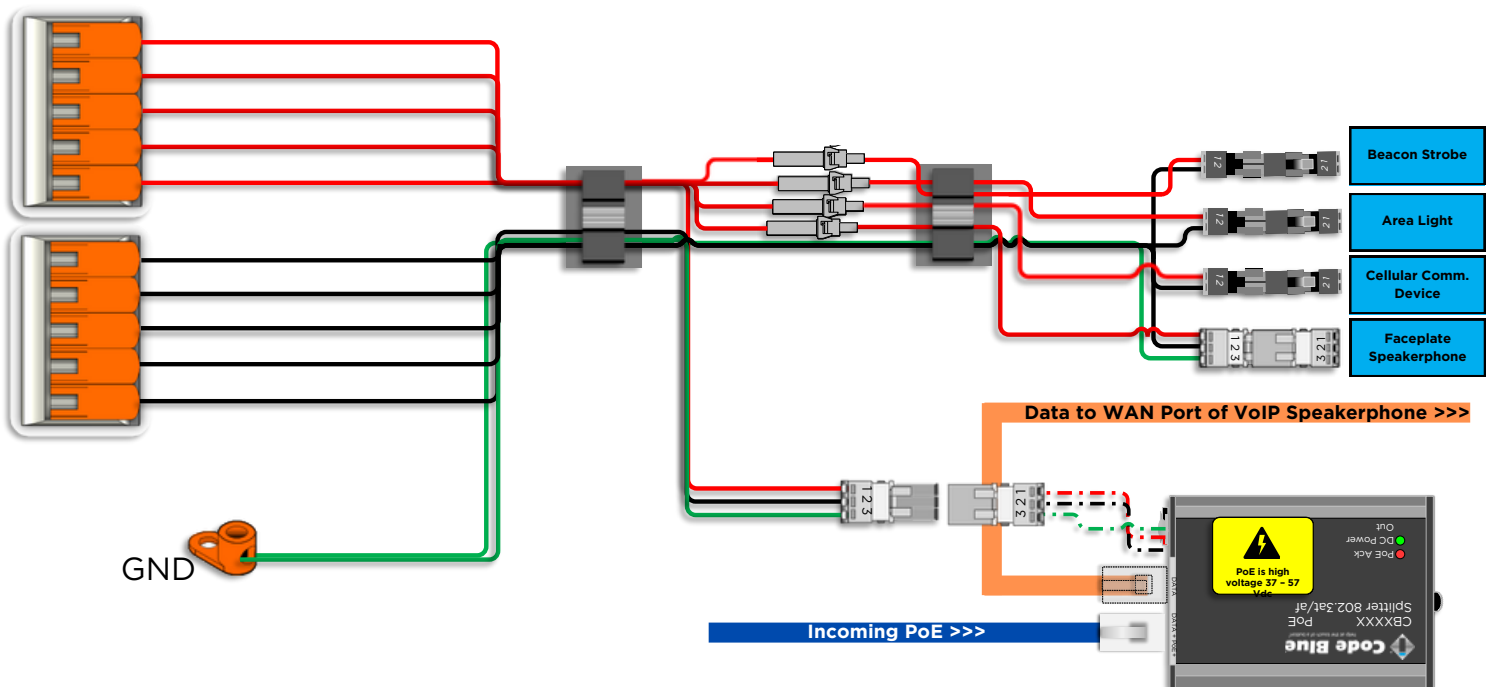


CB 2-s PoE Standard Wiring

For installations with PoE incoming power on site.

Used in the following configurations:

- Standard CB 2-s - No Cellular Communication
- CB 2-s with Cellular Communication



IMPORTANT NOTE: LS1000 speakerphones operate on 12V DC only. If the 24V DC output is selected on the PoE splitter, the use of a 24V to 12V DC step-down transformer must be installed prior to connecting the power system to the speakerphone.

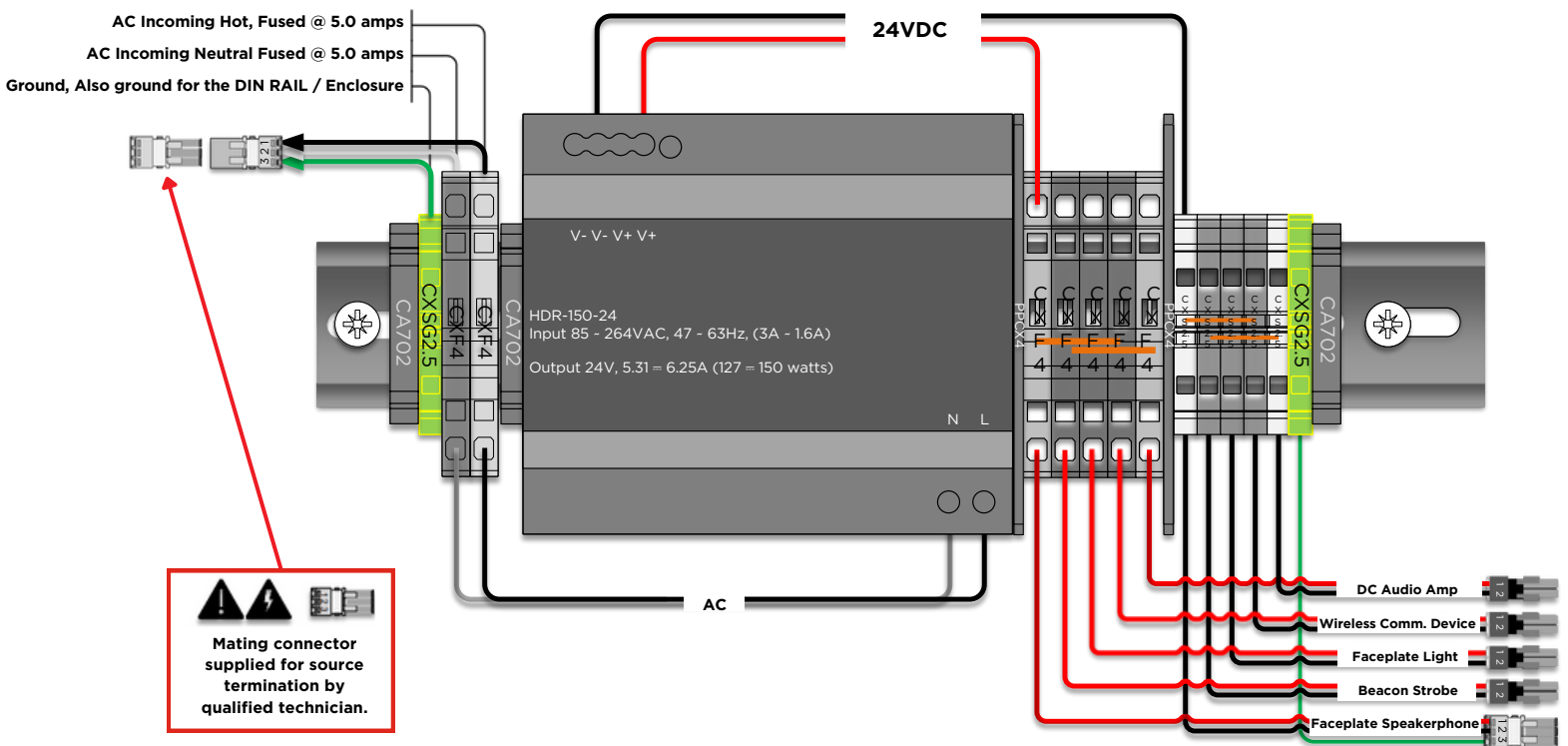


CB 2-ap Audio Paging Standard DIN Rail Wiring

For installations with 100-240V AC incoming power on site.

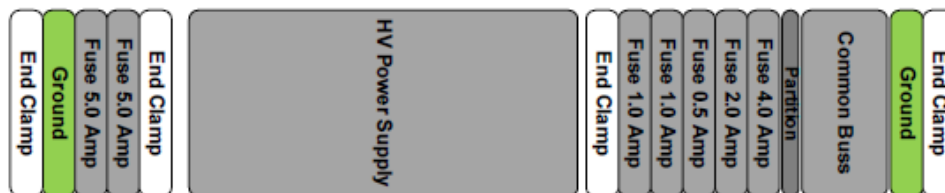
Used in the following configurations:

- Standard CB 2-ap - No Cellular Communication
- CB 2-ap with Cellular Communication



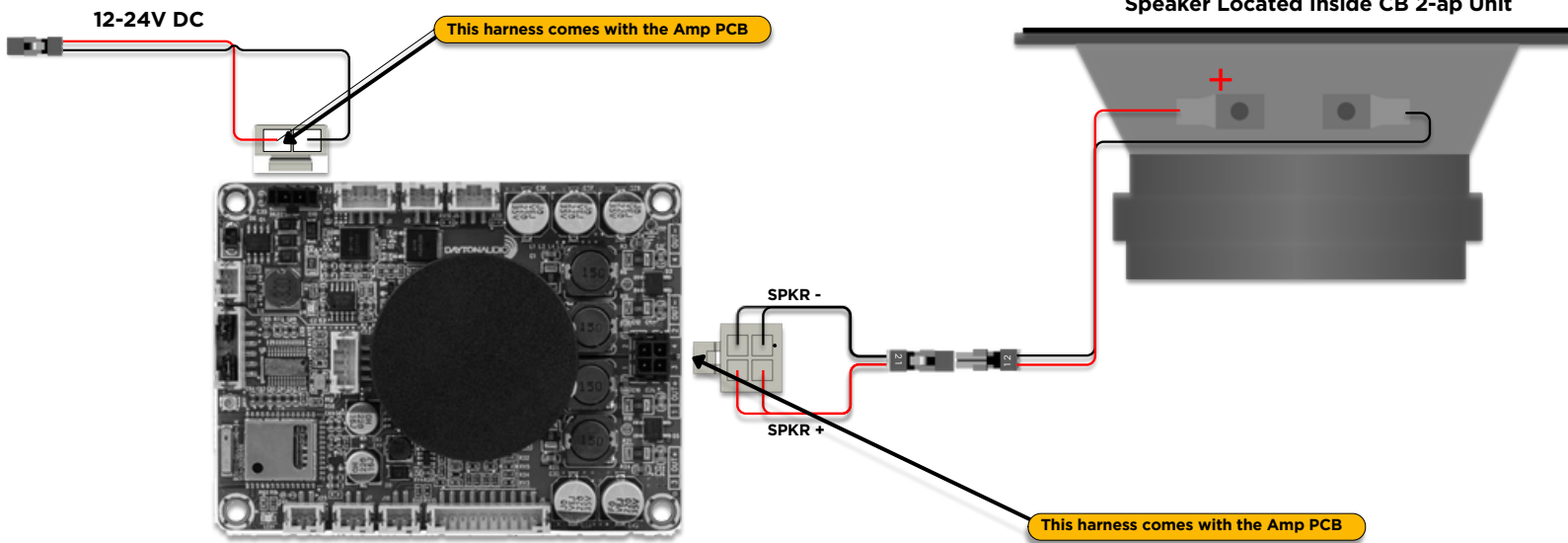
Designed to support 24VDC @ MAX
127 watts(5.1 Amps) at start up

DIN Rail Layout

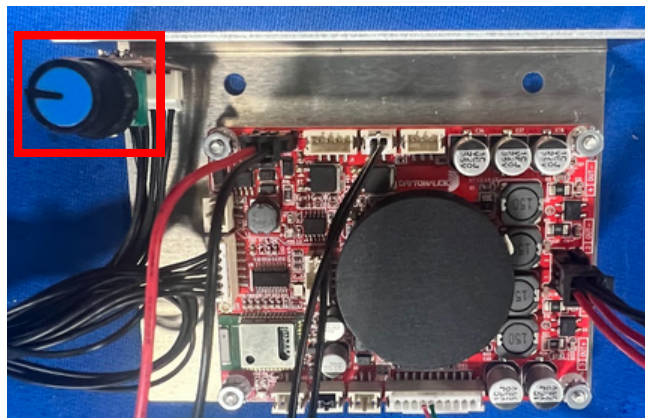




CB 2-ap Audio Paging Amplifier Wiring & Volume Control



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

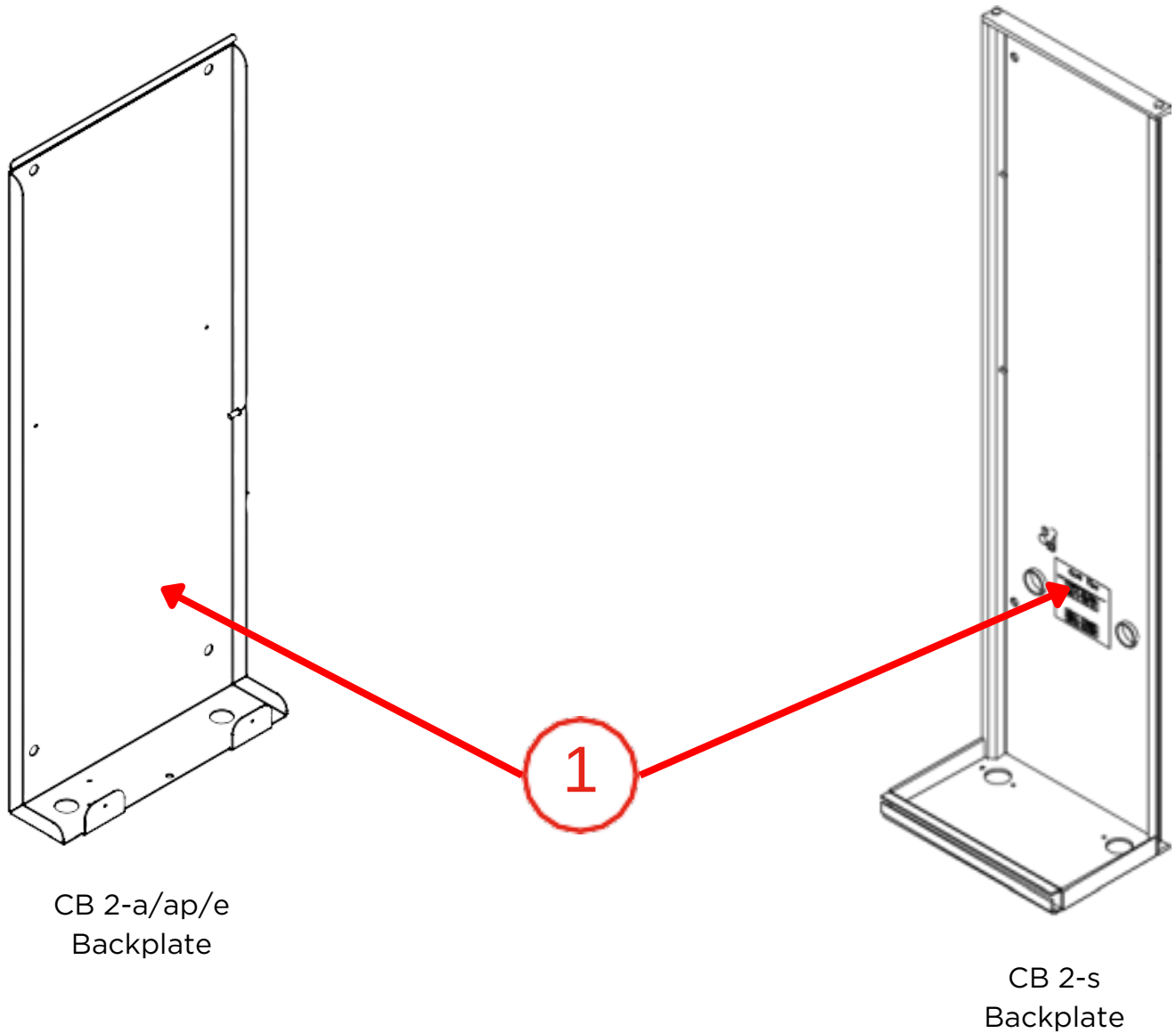


- **Adjust Volume to Desired Level** - By turning the knob clockwise or counter clockwise, this will increase or decrease the volume level of the Audio Paging Speaker Array.



12 Locating Unit Serial Numbers

Remove the unit cover, or remove the speakerphone using a security bit. The serial number will be listed on the manufacturer's label located on the unit's backplate (1). Please note, this serial number location is the same across all CB2 Models





13 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.



14 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.**



15 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

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



16 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**