CB 9 Series

CB 9-s
CB 9-d
CB 9-t Single
CB 9-t Single Single
CB 9-t Single Dual
CB 9-t Dual
CB 9-t Dual Single
CB 9-t Dual Dual

Installation, Configuration, Operation & Troubleshooting

Administrator Guide

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 9 Series** for your Code Blue application.

The **CB 9 Series** is a versatile freestanding pedestal that is intended for gated entries where cars and semi-trucks require access and communication. Available in a variety of configurations, it allows for the installation of additional safety products, including cameras, card readers or other security devices. The **CB 9 Series** can withstand a high rate of abuse and is ideal for parking entry points and other gatekeeper applications.

The exclusive analog InterAct and VoIP speakerphones are designed for maximum reliability, vandal resistance, auxiliary functions, mass notification control, and fault monitoring and reporting capability (see IA4100 or IP5000 guides for more information).

Our unmistakable craftsmanship makes our Help Points® the most rugged on the market, withstanding the punishment of natural and man-made disasters. With durable construction, our pedestal units can meet any requirement or purpose. **CB 9 Series** units have a rugged steel construction, industrial engineering grade reflective graphics and weather, UV and graffiti resistant paint.

Other options include:

- IP and analog phones
- Low power consumption LED faceplate light
- Car and truck heights
- NightCharge®
- PoE power
- Custom colors and graphics
- Remote Mount LED Beacon/Strobe Kit

This guide contains all of the CB 9 Series information for the CB 9-s, CB 9-d, and the CB 9-t. This guide contains a general overview of the CB 9 Series options and its application, installation and wiring.

CB 9-s | CB 9-d | CB 9-t Single | CB 9-t Single Single | CB 9-t Single Dual | CB 9-t Dual | CB 9-t Dual Single | CB 9-t Dual Dual

3 Getting Started

Basic Install Instructions

1. 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).

2. Each analog speakerphone requires its own phone line or PBX extension. Multiple units shall not be supported.

3. Speakerphones require programming before operation. Consult the User Guide or Administrator Guide enclosed with the unit or visit www.codeblue.com > Support > Downloads to read or download manuals.

4. If you are installing IP speakerphones, please read the appropriate manuals and consult with your Network Administrator.

5. Size electrical wiring based on length of run.

6. Consult the enclosed document packet for internal wiring instructions.

What's Included

Quantity	Part Description
1	Anchor Bolt Kit (4 L-Bolts, 8 Washers, 4 Hex Nuts, 1 Cardboard Template)
1	Security Bit
1	Enclosure - CB 9-s, CB 9-d, CB 9-t Single, CB 9-t Single Single, CB 9-t Single Dual, CB 9-t Dual, CB 9-t Dual Single, CB 9-t Dual Dual
2	Access Door Screws
1	URL listing sheet of Installation, Programming, Wiring & Warranty locations

CB 9 Series Tools Required

1. Ladder to reach the top of the dual units

2. Drill and security bit for removing and inserting security screws on phone, dome top and access door

3. 11/8 socket set and extension for installing anchor bolts or Deck Mount Kits

4. Phillips head screwdriver and flat head screwdriver

4 Spare Parts

CB 9 Series

Part	Part Number
LED Faceplate Light	40196
Faceplate Screws	41544 (6pk)
Access Door Screws	41545 (2pk)
Manifold R/B 5-way	40101
Analog Surge Suppressor	41471
IP Surge Suppressor	41421
Blank Lexan Plate Assembly	40067

CB 9 Series Additional Options

Part	Part Number
Multi Tap Transformer (powers accessories) 120V, 240V, 277V, 347V	40104
Blank Lexan Plate Assembly	40067
Service Plate - Lexan w/graphics (This Location Being Serviced)	40208
Deck Mount Kit	40215
Triad Transformer 40V A 120V (will not power accessories)	41246
S-1000 or S-1050 LED Remote Beacon/Strobe Kit	40542
PoE Power Splitter Kit Assembly	41574
IP5000 Speakerphone FP1	50101
IP5000 Speakerphone FP2	50102
IP5000 Speakerphone FP3	50103
IP Color Camera Assembly	41420
Directory Plate Assembly	40057
Custom Cutout Stainless Steel Plates	Drawing needed for part#
PAS WM-180	Color Needed for part#

5 Power Requirements

(The following power requirements include the 9 Series and also **ALL OTHER** Code Blue units.)

24V AC Component Specs

AC low Voltage Components	AC Volts	Current (MAX)	Watts MAX	Watts (24)Hrs	KWHrs	Current (Norm)	Watts Norm	Watts (24) Hrs	KWHrs
IA4100	24.0	0.40	9.6	230.4	0.2	0.22	5.3	126.7	0.1
IP5000	24.0	0.07	1.7	40.3	0.0	0.10	2.4	57.6	0.1
LED Light Bar	24.0	0.04	1.0	23.0	0.0	0.04	1.0	23.0	0.0
HP LED Strobe S-1000	24.0	0.22	5.3	126.7	0.1	0.22	5.3	126.7	0.1
HP LED w/photocell S-1050	24.0	0.22	5.3	126.7	0.1	0.22	5.3	126.7	0.1
A-700LED Area Light	24.0	1.80	43.2	1036.8	1.0	0.83	19.9	478.1	0.5
AC to DC Converter	24.0	5.00	120.0	2880.0	2.9	2.00	48.0	1152.0	1.2

12V DC Components Specs

DC | Voltage Components	DC Volts	Current (MAX)	Watts MAX	Watts (24)Hrs	KWHrs	Current Nominal	Watts Nom	Watts (24_ Hrs	KWHrs
IA4100	12.0	0.90	10.8	259.2	0.26	0.39	4.68	112.32	0.11
IP5000	12.0	0.19	2.3	54.7	0.05	0.15	1.80	43.20	0.04
HP LED Strobe S-1000	12.0	0.26	3.1	74.9	0.07	0.24	2.88	69.12	0.07
HP LED w/photocell	12.0	0.26	3.1	74.9	0.07	0.24	2.88	69.12	0.07
LED Area Light A-700	12.0	2.68	32.2	771.8	0.77	0.38	4.56	109.44	0.11
LED Light Bar	12.0	0.04	0.5	11.5	0.01	0.04	0.48	11.52	0.01
A-700 DC	12.0	2.68	32.2	771.8	0.77	0.36	4.32	103.68	0.10

Special Models Max Consumption

Model	Pri AC	Current	Watts	WHr Max (24 hrs)	KWh Max	KWHrs a Year
CB 2 w/AED	120	3.31	397.2	9532.8	9.5	3479.47
CB 1 w/AED	120	3.31	397.2	9532.8	9.5	3479.47
CB 1 w/PAS 460w	120	3.83	459.6	11030.4	11.0	4026.10
CB 2 w/PAS 150w	24	3.86	92.6	2223.4	2.2	811.53
CB 5 w/PAS 400w	120	3.33	399.6	9590.4	9.6	3500.50

120V (9-2013) Combined Specs

Model	Pri AC	Current	Watts	Watt Hours Max (24 hrs)	KWh Max
CB 1-s	120	1.71	205.2	4924.8	4.9
CB 1-d	120	1.71	205.2	4924.8	4.9
CB 1-s/d w/NightCharge®, GSM	120	2.50	300.0	2400.0	2.4
CB 2-s	120	1.71	205.2	4924.8	4.9
CB 4-u w/NightCharge®, GSM	120	2.50	300.0	2400.0	2.4

24V AC Combined Specs w/IA4100 Normal

Model	AC Volts	Current	Amp Hours (24)	Watts	Wh (24 hrs)	KWh a day	KWHrs a Year
CB 1-e	24	0.48	11.52	11.52	276.48	0.28	100.92
CB 1-s	24	1.31	31.44	31.44	754.56	0.75	275.41
CB 2-e	24	0.48	11.52	11.52	276.48	0.28	100.92
CB 2-s	24	1.31	31.44	31.44	754.56	0.75	275.41
CB 5 w/dec top	24	0.36	8.64	8.64	207.36	0.21	75.69
CB 4	24	0.22	5.28	5.28	126.72	0.13	46.25
CB 4-r	24	0.26	6.24	6.24	149.76	0.15	54.66
CB 5-s	24	0.48	11.52	11.52	276.48	0.28	100.92
CB 5-p	24	0.48	11.52	11.52	276.48	0.28	100.92
CB 6	24	0.22	5.28	5.28	126.72	0.13	46.25
CB 4-u	24	0.26	6.24	6.24	149.76	0.15	54.66
CB 9-s	24	0.26	6.24	6.24	149.76	0.15	54.66
CB 9-d	24	0.26	6.24	6.24	149.76	0.15	54.66
CB 2-e w/PAS	24	3.86	92.64	92.64	2223.36	2.22	811.53

Multi-tap Power Brick

Model	AC Volts	VA	Watts	Wh (24)	KWh a Day
FA-221 (Alternate Sup)	120.0	250.0	250.0	6000.00	6.00
H series (Main Sup)	120.0	250.0	205.0	4920.00	4.92

AC Components

AC volt Components	AC Voltage	AC Current	AC Watts	Whr max(24 hrs)	KWh
Night Charge®	120.0	1.3	156.0	3744.0	3.7
Heater - AED	120.0	1.60	192.0	4608.0	4.6
DC PS - AED	120.0	2.60	312.0	7488.0	7.5
CB 1 w/PAS PS / Amp	120.0	3.83	459.6	11030.4	11.0
CB 2 w/PAS Amp	24.0	3.20	76.8	1843.2	1.8
LED Area Light	24.0	0.83	19.9	478.1	0.5
Power Brick	120.0	1.71	205.2	4924.8	4.9

24V AC Combined Specs w/IP5000 Normal

Model	AC Volts	Current	Amp Hours (24)	Watts	Wh (24 hrs)	KWh a day	KWHrs a Year
CB 1-e	24	0.36	8.64	8.64	207.36	0.21	75.69
CB 1-s	24	1.19	28.56	28.56	685.44	0.69	250.19
CB 2-e	24	0.36	8.64	8.64	207.36	0.21	75.69
CB 2-s	24	1.19	28.56	28.56	685.44	0.69	250.19
CB 5 w/dec top	24	0.36	8.64	8.64	207.36	0.21	75.69
CB 4	24	0.10	2.40	2.40	57.60	0.06	21.02
CB 4-r	24	0.14	3.36	3.36	80.64	0.08	29.43
CB 5-s	24	0.36	8.64	8.64	207.36	0.21	75.69
CB 5-p	24	0.66	15.84	15.84	380.16	0.38	138.76
CB 6	24	0.10	2.40	2.40	57.60	0.06	21.02
CB 4-u	24	0.26	6.24	6.24	149.76	0.15	54.66
CB 9-s	24	0.14	3.36	3.36	80.64	0.08	29.43
CB 9-d	24	0.14	3.36	3.36	80.64	0.08	29.43
CB 2-e w/PAS	24	3.86	92.64	92.64	2223.36	2.22	811.53

6 Software Configuration

Blue Alert® MNS Software

Blue Alert MNS (Mass Notification Software) fills a need in the marketplace for an incident response solution that is both comprehensive and cost-effective, while also providing an efficient way to detect and respond. The advanced mass notification system allows responders to deliver multi-layered emergency notifications via a wide range of platforms, including email, text message (SMS), emergency phones, public address speakers, social media, desktop alerts and more, quickly informing and directing people in emergency situations.

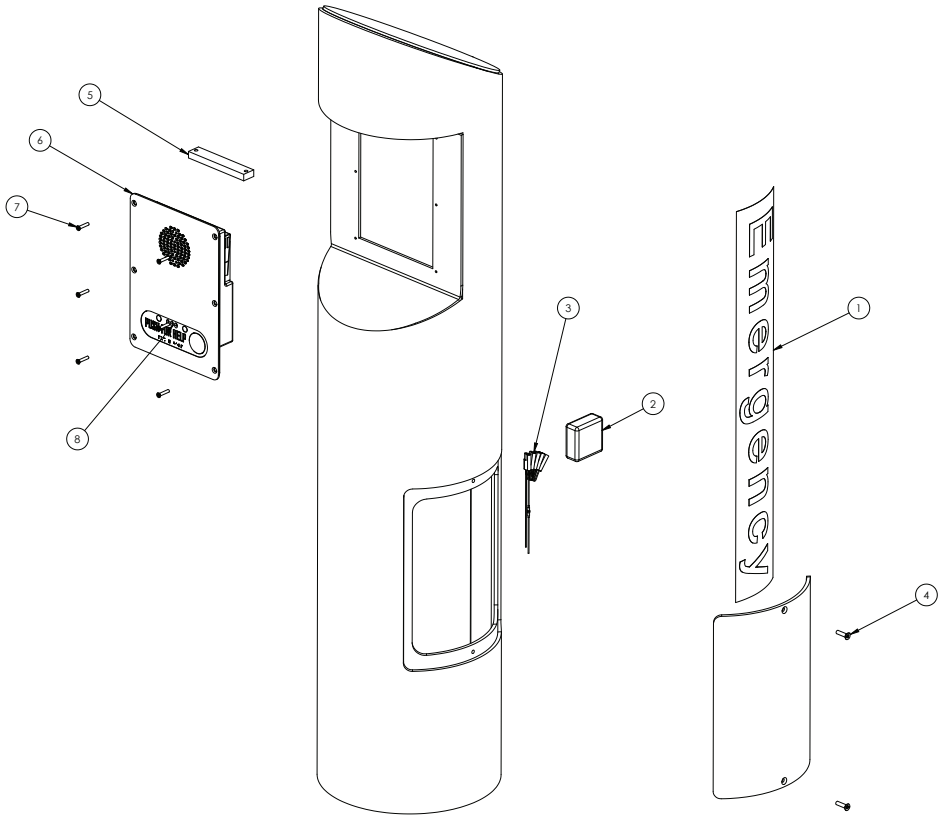
Blue Alert® EMS

Blue Alert EMS is an advanced software solution that handles all incoming events effectively by remotely controlling emergency communication devices with an easy-to-use Graphical User Interface (GUI). You also will have the ability to open gates and AED access doors, turn LED beacon/strobes on or off, transfer calls to Public Address Systems to make area wide announcements and incorporate other ancillary devices and applications while the system securely archives data for future reference.

ToolVox®

A sophisticated emergency management platform for your blue light phone network, ToolVox offers unique real-time monitoring and provisioning options for emergency phones and public address speakers, effectively acting as a hub for connecting Help Points® and other Code Blue devices. Using our proprietary incident response software, Blue Alert® MNS and EMS, you can send alerts via outdoor platforms, such as blue light phones and public address speakers. It also provides connections to PBX, public telephone (PSTN) and Internet (ISP) networks, in addition to third party security platforms.

7 CB 9-s Low Voltage Exploded View



BALL #	PART #	DESCRIPTION
1	CALL	Standard / Custom Graphic
2	41471	Analog Surge Suppressor
2	41421	IP Surge Suppressor
3	40101	Manifold R/B 5-way
4	41545	Access Door Screws (2 pk)
5	41548	LED Faceplate Light
6	50001	Single Button IA4100 Analog Phone – PUSH FOR HELP
6	50002	Double Button IA4100 Analog Phone – PUSH FOR HELP
6	50003	Keypad IA4100 Analog Phone – PUSH FOR HELP
6	50004	Single Button IA4100 Analog Phone – EMERGENCY
6	50005	Double Button IA4100 Analog Phone – EMERGENCY
6	50006	Keypad IA4100 Analog Phone – EMERGENCY
6	50007	Single Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
6	50008	Double Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
6	50009	Keypad IA4100 Analog Phone – EMERGENCY/EMERGENCIA
6	50101	Single Button IP5000 Phone – PUSH FOR HELP

BALL #	PART #	DESCRIPTION
6	50102	Double Button IP5000 Phone – PUSH FOR HELP
6	50103	Keypad IP5000 Phone – PUSH FOR HELP
6	50104	Single Button IP5000 Phone – EMERGENCY
6	50105	Double Button IP5000 Phone – EMERGENCY
6	50106	Keypad IP5000 Phone – EMERGENCY
6	50107	Single Button IP5000 Phone – EMERGENCY/EMERGENCIA
6	50108	Double Button IP5000 Phone – EMERGENCY/EMERGENCIA
6	50109	Keypad IP5000 Phone – EMERGENCY/EMERGENCIA
7	41544	Faceplate Security Screw 10x24 (6 pk)
8	40357	Bezel Assembly IA4100 Analog Phone – PUSH FOR HELP
8	40407	Bezel Assembly IA4100 Analog Phone – EMERGENCY
8	40408	Bezel Assembly IA4100 Analog Phone – EMERGENCY/EMERGENCIA
8	40313	Bezel Assembly IP5000 Analog Phone – PUSH FOR HELP
8	40405	Bezel Assembly IP5000 Analog Phone – EMERGENCY
8	40406	Bezel Assembly IP5000 Analog Phone – EMERGENCY/EMERGENCIA

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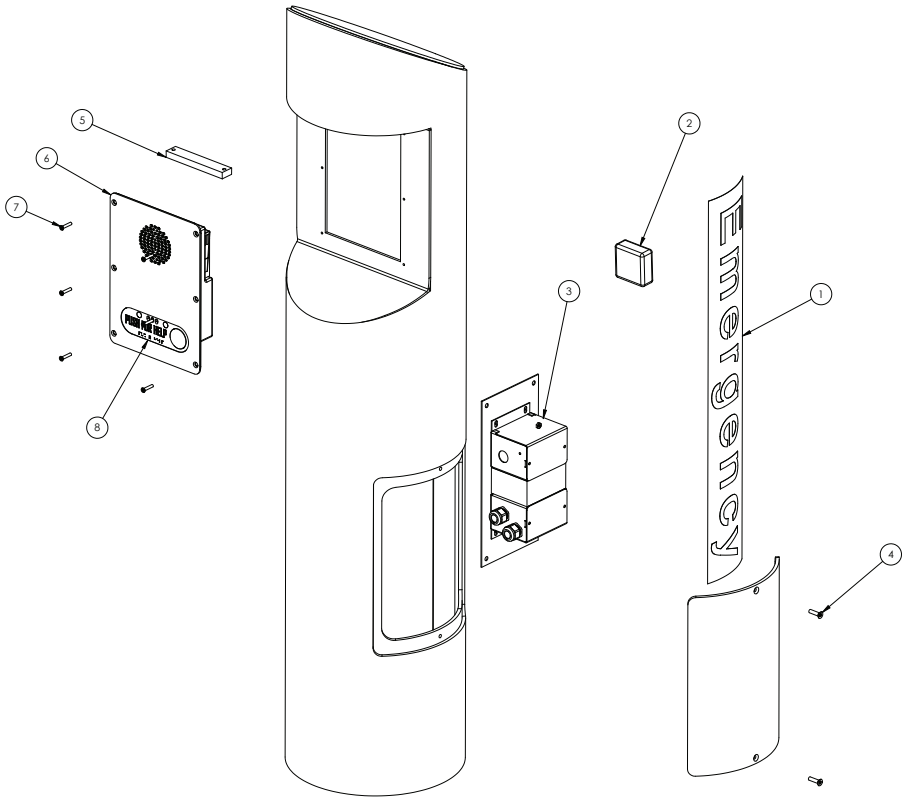

BALL #	PART #	DESCRIPTION
1	CALL	Standard Graphic
1	CALL	Custom Graphic
2	41471	Analog Surge Suppressor
2	41421	IP Surge Suppressor
3	40104	Power Brick 120V, 240V, 277V, 347V
4	41545	Access Door Screws (2 pk)
5	41548	LED Faceplate Light
6	50001	Single Button IA4100 Analog Phone – PUSH FOR HELP
6	50002	Double Button IA4100 Analog Phone – PUSH FOR HELP
6	50003	Keypad IA4100 Analog Phone – PUSH FOR HELP
6	50004	Single Button IA4100 Analog Phone – EMERGENCY
6	50005	Double Button IA4100 Analog Phone – EMERGENCY
6	50006	Keypad IA4100 Analog Phone – EMERGENCY
6	50007	Single Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
6	50008	Double Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
6	50009	Keypad IA4100 Analog Phone – EMERGENCY/EMERGENCIA

BALL #	PART #	DESCRIPTION
6	50101	Single Button IP5000 Phone – PUSH FOR HELP
6	50102	Double Button IP5000 Phone – PUSH FOR HELP
6	50103	Keypad IP5000 Phone – PUSH FOR HELP
6	50104	Single Button IP5000 Phone – EMERGENCY
6	50105	Double Button IP5000 Phone – EMERGENCY
6	50106	Keypad IP5000 Phone – EMERGENCY
6	50107	Single Button IP5000 Phone – EMERGENCY/EMERGENCIA
6	50108	Double Button IP5000 Phone – EMERGENCY/EMERGENCIA
6	50109	Keypad IP5000 Phone – EMERGENCY/EMERGENCIA
7	41544	Faceplate Security Screw 10x24 (6 pk)
8	40357	Bezel Assembly IA4100 Analog Phone – PUSH FOR HELP
8	40407	Bezel Assembly IA4100 Analog Phone – EMERGENCY
8	40408	Bezel Assembly IA4100 Analog Phone – EMERGENCY/EMERGENCIA
8	40313	Bezel Assembly IP5000 Analog Phone – PUSH FOR HELP
8	40405	Bezel Assembly IP5000 Analog Phone – EMERGENCY
8	40406	Bezel Assembly IP5000 Analog Phone – EMERGENCY/EMERGENCIA

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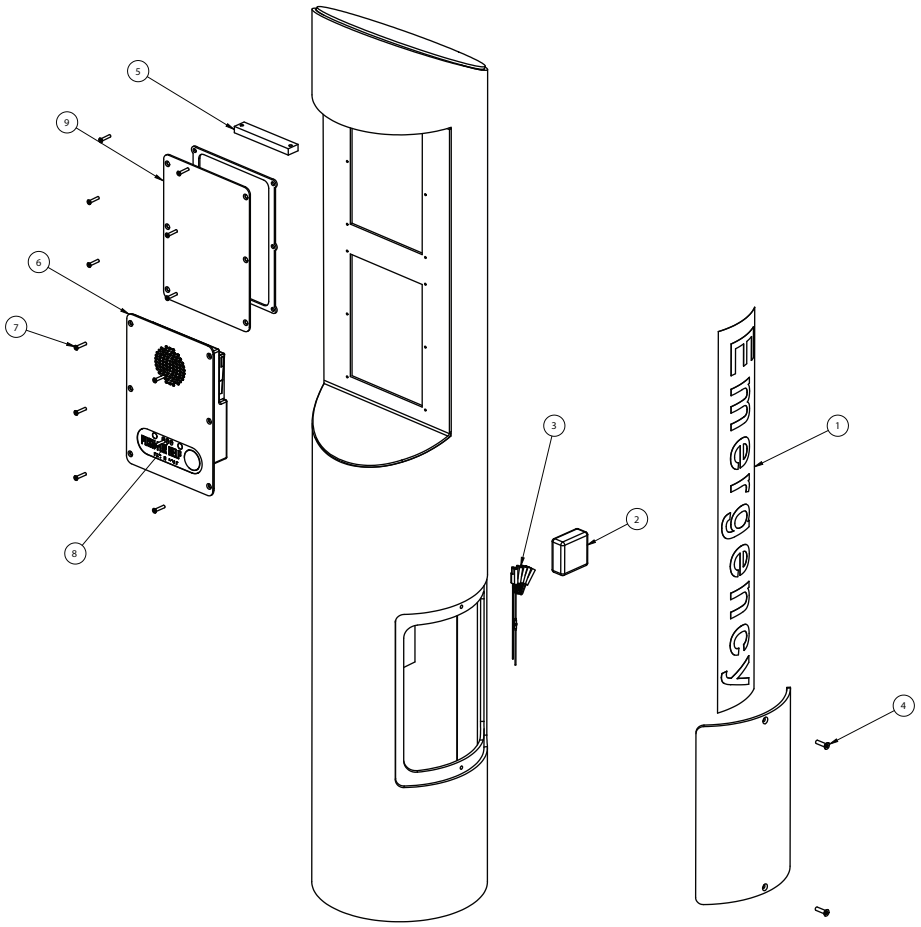

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6	50002	Double Button IA4100 Analog Phone – PUSH FOR HELP
6	50003	Keypad IA4100 Analog Phone – PUSH FOR HELP
6	50004	Single Button IA4100 Analog Phone – EMERGENCY
6	50005	Double Button IA4100 Analog Phone – EMERGENCY
6	50006	Keypad IA4100 Analog Phone – EMERGENCY
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6	50008	Double Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
6	50009	Keypad IA4100 Analog Phone – EMERGENCY/EMERGENCIA
6	50101	Single Button IP5000 Phone – PUSH FOR HELP
6	50102	Double Button IP5000 Phone – PUSH FOR HELP
6	50103	Keypad IP5000 Phone – PUSH FOR HELP

BALL #	PART #	DESCRIPTION
6	50104	Single Button IP5000 Phone – EMERGENCY
6	50105	Double Button IP5000 Phone – EMERGENCY
6	50106	Keypad IP5000 Phone – EMERGENCY
6	50107	Single Button IP5000 Phone – EMERGENCY/EMERGENCIA
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8	40313	Bezel Assembly IP5000 Analog Phone – PUSH FOR HELP
8	40405	Bezel Assembly IP5000 Analog Phone – EMERGENCY
8	40406	Bezel Assembly IP5000 Analog Phone – EMERGENCY/EMERGENCIA
9	40066	Blank Plate Assembly
9	40067	Directory Assembly
9	40130	Color Camera Assembly
9	40131	Card Reader Assembly
9	40157	Color Camera and Card Reader Assembly

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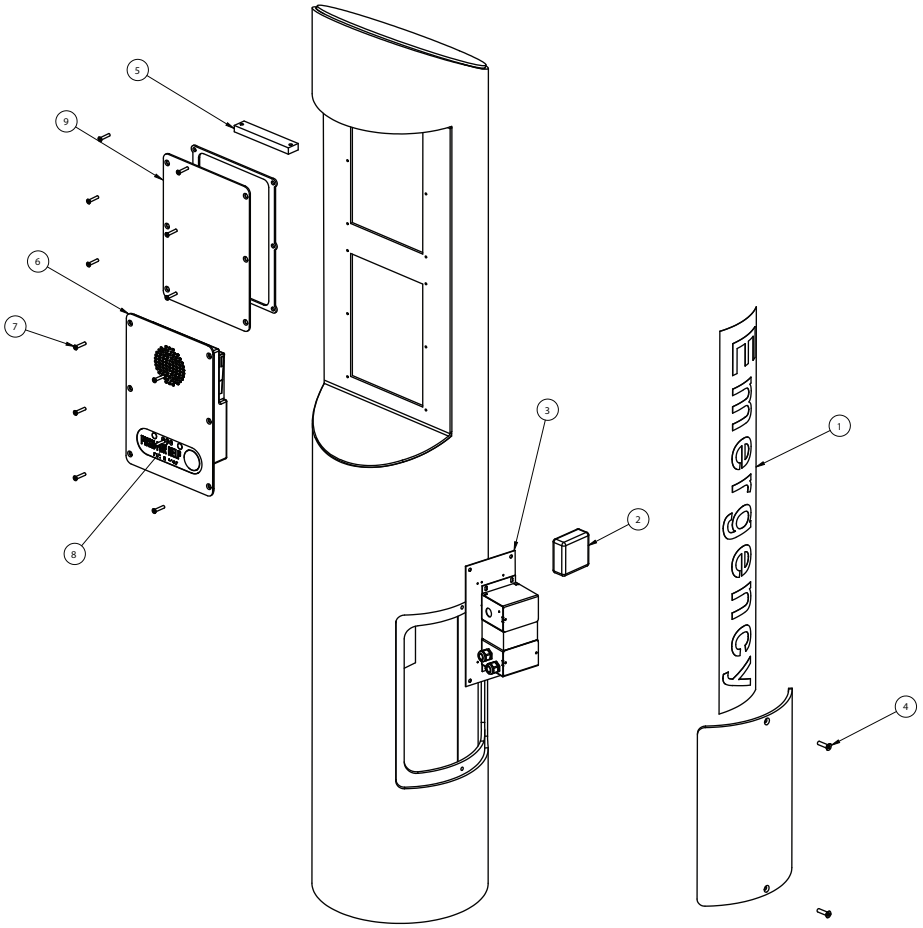

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6	50009	Keypad IA4100 Analog Phone – EMERGENCY/EMERGENCIA
6	50101	Single Button IP5000 Phone – PUSH FOR HELP
6	50102	Double Button IP5000 Phone – PUSH FOR HELP
6	50103	Keypad IP5000 Phone – PUSH FOR HELP

BALL #	PART #	DESCRIPTION
6	50104	Single Button IP5000 Phone – EMERGENCY
6	50105	Double Button IP5000 Phone – EMERGENCY
6	50106	Keypad IP5000 Phone – EMERGENCY
6	50107	Single Button IP5000 Phone – EMERGENCY/EMERGENCIA
6	50108	Double Button IP5000 Phone – EMERGENCY/EMERGENCIA
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11 IP Color Camera Installation Instructions

Color IP Camera Option

HIKVISION Network Mini Dome Camera for Second Opening

The HIKVISION Mini Dome Network IP Camera installed in this unit is a Code Blue 3rd Party Partner product. Model # DS-2CD7153-E.

The network camera is set with the following factory default settings:

- IP Address: 192.0.0.64
- Camera is accessed on IP Port 8000
- User Name: admin
- Password: 12345

For additional support, contact HIKVISION at:
Website: http://www.hikvision-usa.com/support.html
Phone: 1-909-895-0400, 6 a.m. to 6 p.m. PST
Email: techsupport@hikvisionusa.com

Note: Please contact Code Blue Customer Service if a custom cutout is needed on the CB 9-d for third party products, such as a card reader or a custom camera to mount on the second opening plate.

Contact Code Blue Customer Service at 800-205-7186 or customerservice@codeblue.com.

12 CB 9 Series Installation Instructions

1.0 FOUNDATION – (see Anchor Bolt Installation Instructions)

2.0 SET THE UNIT

2.1 **Screw one set of nuts and washers onto the anchor bolts** – After the foundation has set, screw one set of nuts followed by one set of washers onto the anchor bolts. Set the nuts such that the lowest washer is about 2½ inches above the concrete and at an even height. To accomplish this, use a small level and check all three directions. These nuts are not adjustable after the unit is in place. The bottom edge of the Code Blue unit will be ½-inch above the concrete when installed.

IMPORTANT: The leveling of the bottom nuts is crucial to the leveling of the unit. A small error in the adjustment of these will be magnified after installation.

IMPORTANT: A ½-inch air gap is required between the foundation and the unit. Moisture problems may result if this condition is not complied with.

2.2 **Set the unit on the anchor bolts** – Align the phone plate in the desired direction and lift the Code Blue unit over the anchor bolts. Note that the unit weighs 190-420 pounds. Use appropriate lifting materials and methods to avoid possible injury and/or damage.

2.3 **Secure the unit** – Access the mounting studs through the door on the side of the unit. Place the second washer and nut and then tighten the mounting nuts onto the anchor bolts. This may be more convenient if a long socket, extension and universal joint is used to tighten the hardware.

3.0 WIRING

3.1 **Ground** – The ground (green) wire should be stripped and fastened to the supplied grounding lug.

3.2 **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.”

3.3 **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.

See diagrams next page

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.

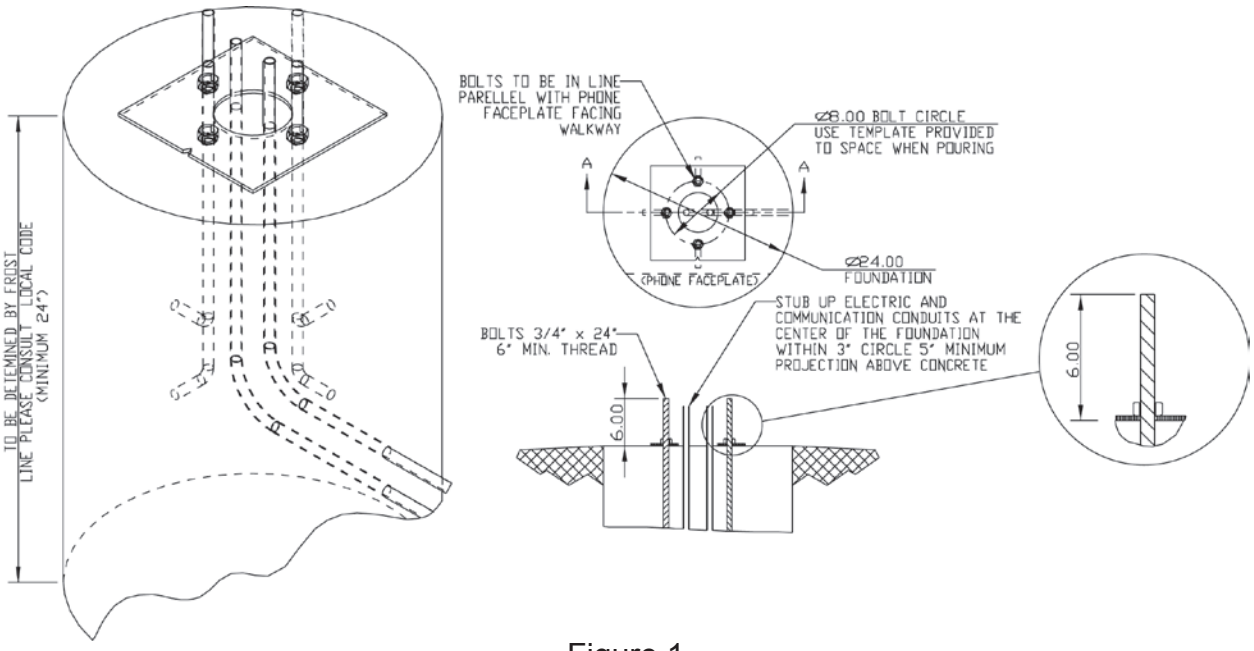
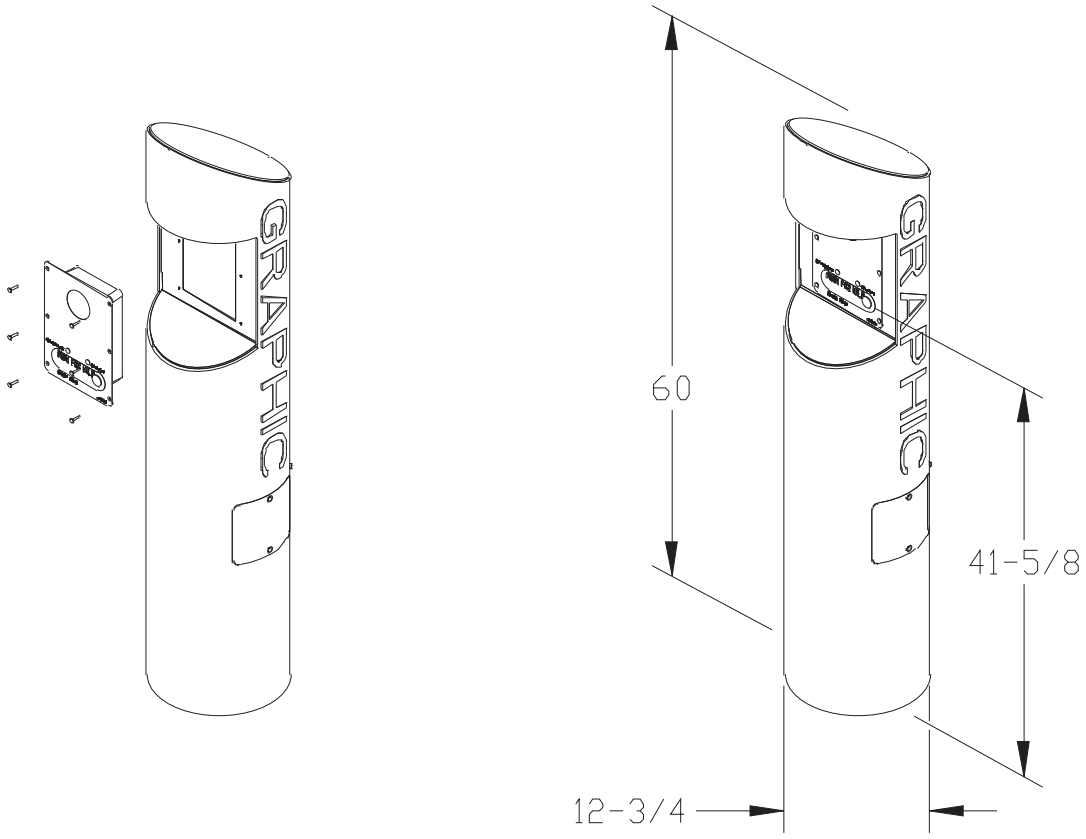


Figure 1



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.

13 CB 9 Series Tower Base Gasket Installation Instructions

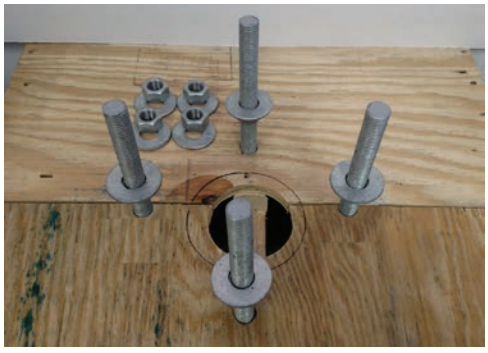
1.0 FOUNDATION (see anchor bolt installation instructions)

2.0 SET THE UNIT

2.1 Screw one set of nuts and washers onto the anchor bolts. After the foundation has set, screw one set of nuts, followed by one set of washers, onto the anchor bolts. Set the nuts so the lowest washer is about 2½ inches above the concrete at an even height.

To accomplish this, use a small level and check from front to back, side to side and diagonally. These nuts are NOT adjustable after the unit is in place.

The bottom edge of the Code Blue unit will be ½-inch above the concrete when installed.



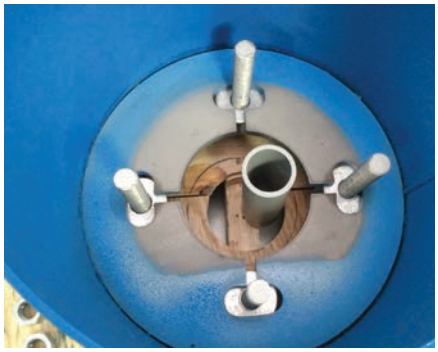
IMPORTANT: Leveling the bottom nuts is crucial to leveling the unit. A small error will be magnified after installation.

2.2 Set the Code Blue unit on the anchor bolts. Align the phone plate in the desired direction and lift the Code Blue unit over the anchor bolts. The unit may be lifted using the bracket on the inside of the unit. Note that the unit weighs approximately 200-400 pounds and that the 9 Series does not contain a bracket on the inside of the unit. Use appropriate lifting materials and methods to avoid possible injury and/or damage.

IMPORTANT: A ½-inch minimum air gap is required between the foundation and the unit to prevent moisture problems.

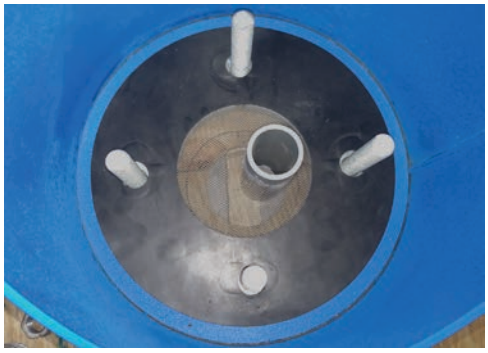
3.0 Install the Base Gasket

3.1 Access the mounting studs through the access door on the side of the unit.



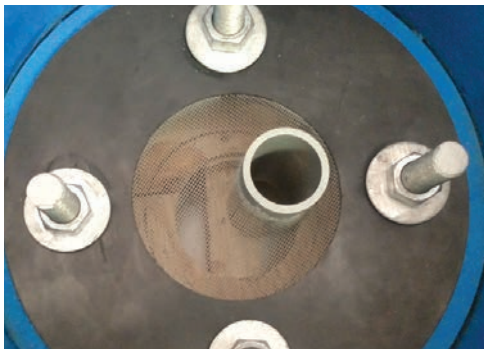
3.2 Set the gasket on the bolts and cut a small hole where the conduit is located.

Stretch the screen tightly around the conduit pipe. Slide the gasket over the bolts to the base of unit.



3.3 Place the second washer on the anchor bolt and place the nut on top.

Tighten the mounting nuts onto the anchor bolts. This may be more convenient if a long socket, extension and universal joint is used to tighten the hardware.



***For an extra-strong seal, a bead of silicone caulk can be put on the gasket from bolt hole to bolt hole before setting the gasket into place and around the conduit.**

14 CB 9 Optional WM-180 Installation Instructions

Note: If WM-180 unit does not include an IP or Analog controller board, then it must be located near an IA4100 or IP5000 speakerphone for the 20' supplied PAS cables to reach it.

See included drawing for anchor bolt and conduit locations.

WITH CONTROLLER BOARD

Supply 24V AC to Power Manifold.

Supply Phone line to Phone Port if analog controller board, or Ethernet IP Connection to LAN port if IP Controller board.

Reference **IA4100 Admin and User Guide** for programming of analog controller board.

Reference **IP5000 Admin and User Guide** for programming of IP controller board.

Code Blue Guides are located at **www.codeblue.com > support > downloads.**

WITHOUT CONTROLLER BOARD

Supply 24V AC to Power Manifold

See attached Wiring Diagram for connecting, PAS Audio Cable and the PAS Control Cable, to the nearby IA4100 or IP5000 speakerphone.

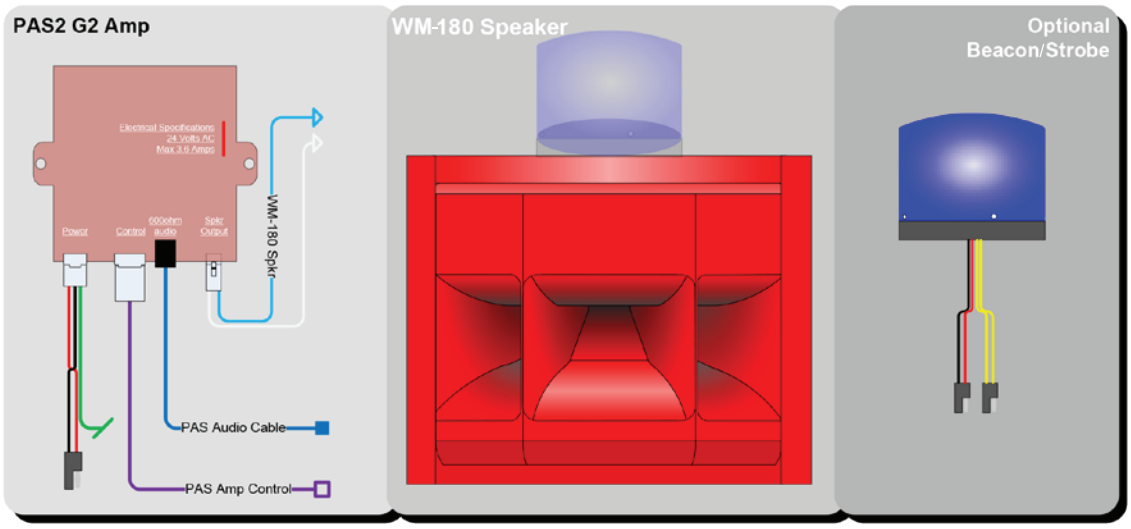
Reference **IA4100 Admin and User Guide** for programming of analog controller board.

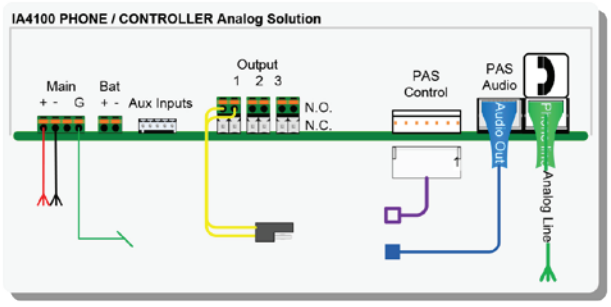
Reference **IP5000 Admin and User Guide** for programming of IP controller board.

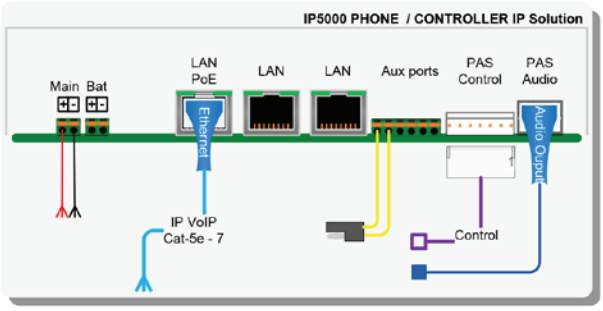
Code Blue Guides are located at **www.codeblue.com > support > downloads.**

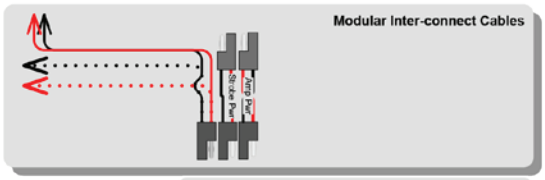
See diagrams next page

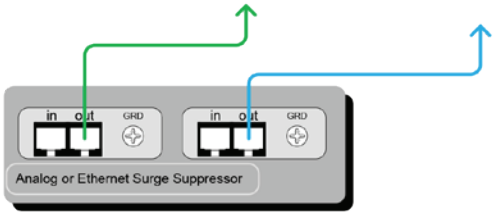
WM-180 w/Controller / Speaker Phone, Wiring Diagram

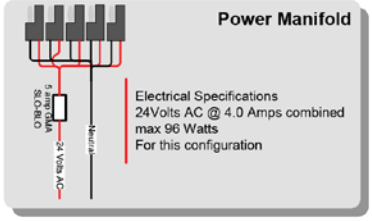




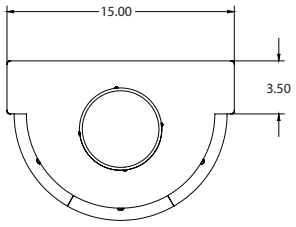


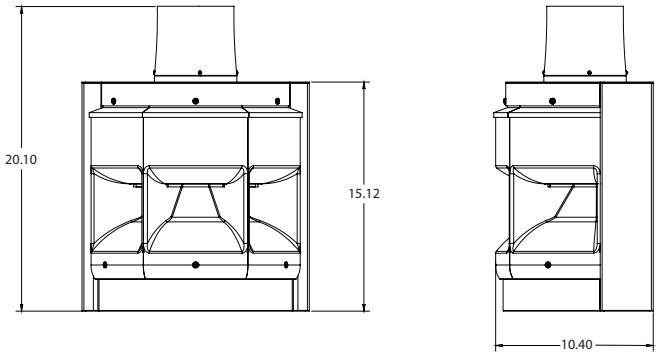


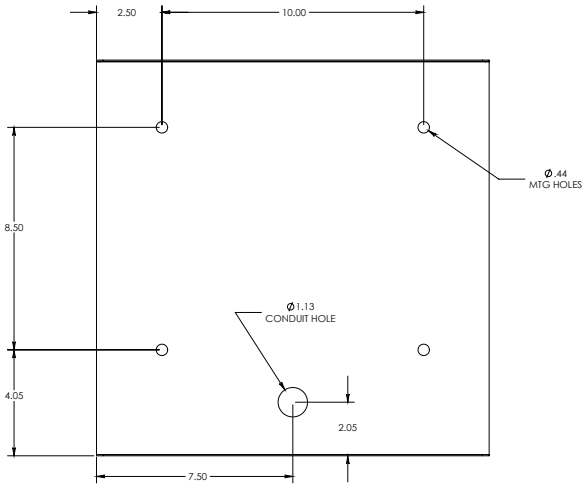




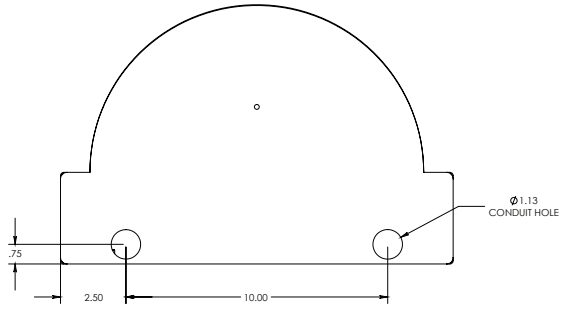
Product wiring diagram shown reasonably represents current offering and is intended to assist in component identification and service. Earlier product production may have different components and wiring connections. Reference the model and serial number from the unit ID tag and contact manufacturer to confirm replacement part version and availability.







BACK VIEW



BOTTOM VIEW

Specifications subject to change without notice or obligation on the part of the manufacturer.

15 CB 9 Series Anchor Bolt Installation Instructions

1.0 FOUNDATION

1.1 Conduit – Electrical and telephone line conduit, with a maximum combined diameter of four inches, should be run up through the center of the foundation hole. A minimum of four inches and a maximum of six inches of conduit above the finished grade level is required. To ensure proper grounding, a ½-inch x 8-foot copper rod should be inserted in the center of the foundation and tied to the steel bollard.

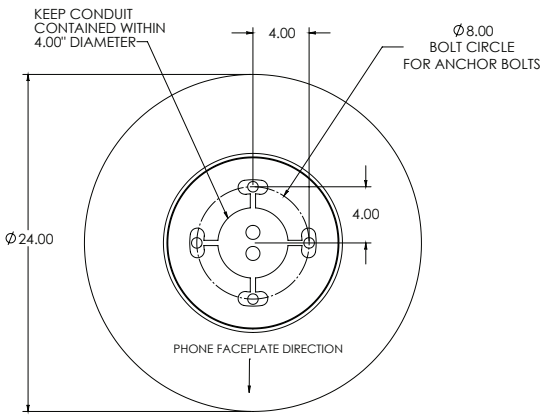
NOTE: *Follow all national and local codes governing this installation.*

1.2 Pour the Foundation – The foundation should be at least 24 inches in diameter and to the correct depth for the frost line in your area, with a minimum depth of at least three feet (follow local building codes for foundations).

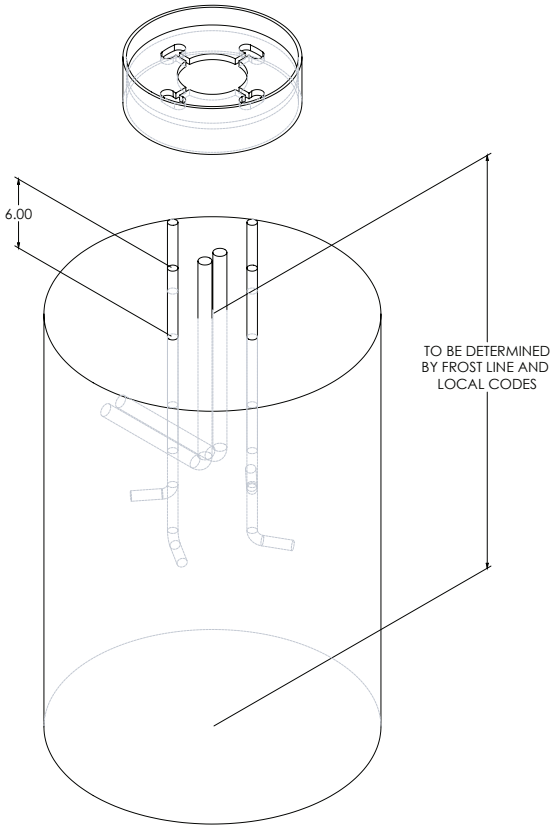
1.3 Set the Anchor Bolts in the Wet Foundation – Four 24-inch L-shaped anchor bolts and an aligning template are supplied for anchoring the Code Blue unit. The bolts should be set into the foundation so that six inches are left showing above the finished grade level. The anchor bolts should be aligned, using the supplied template in such a way that the phone faceplate on the unit will face in the desired direction.

2.0 WIRING

2.1 Pull power and phone line up through the conduits – A minimum of two feet of wire must be available from the conduit for electrical and communications wiring.



USE PROVIDED TEMPLATE TO LOCATE ANCHOR BOLTS



16 CB 9 Overhead Camera Mount Installation Instructions

TOOLS REQUIRED

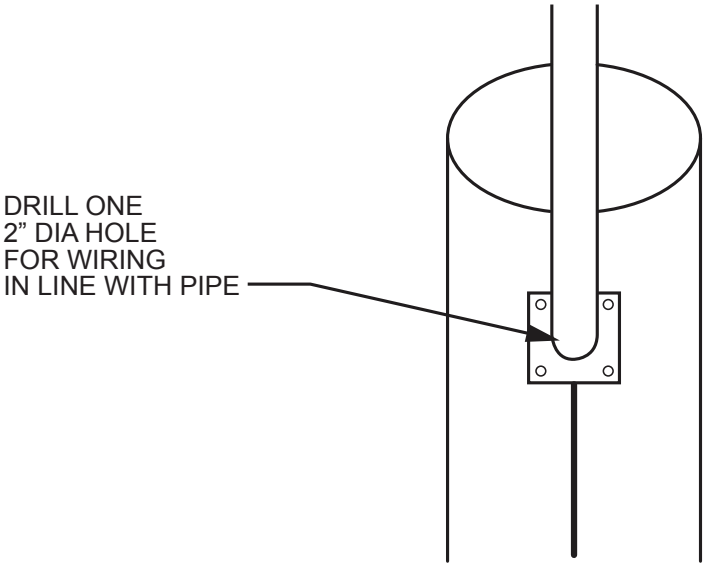
INSTALLING THE OVERHEAD CAMERA MOUNT

The camera mount will come with a gasket already mounted to the bracket on the arm. Place the bracket over the mounting holes and insert the four 3/8-16 X 1 stainless bolts. (The 3/8” stainless steel bolts should have one stainless steel washer and one rubber washer.) Verify the camera mount is evenly positioned to ensure the gasket seal is properly seated. Tighten the bolts with your 3/8” wrench in a crisscross pattern to ensure even pressure until it is snug against the outside of the bollard.

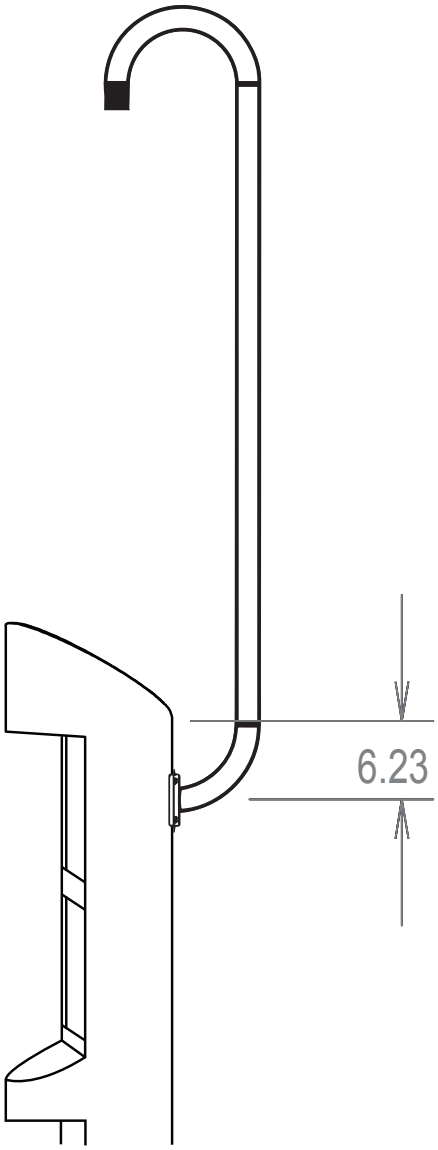
INSTALLING THE CAMERA

Camera and wiring (supplied by others) is installed into the male 1½ NPT.

NOTE: If you are retrofitting an existing unit, the Overhead Camera Mount must be set in the desired position on the side of the bollard with the four holes marked for drilling and tapping. Once the holes are marked, they will need to be drilled and tapped to receive the 3/8” course thread stainless steel bolts. A 2” hole will need to be drilled out of the center of the four holes for the camera wiring. (Mount bracket on the opposite side of the phone opening, lining up with the center of the phone opening.)



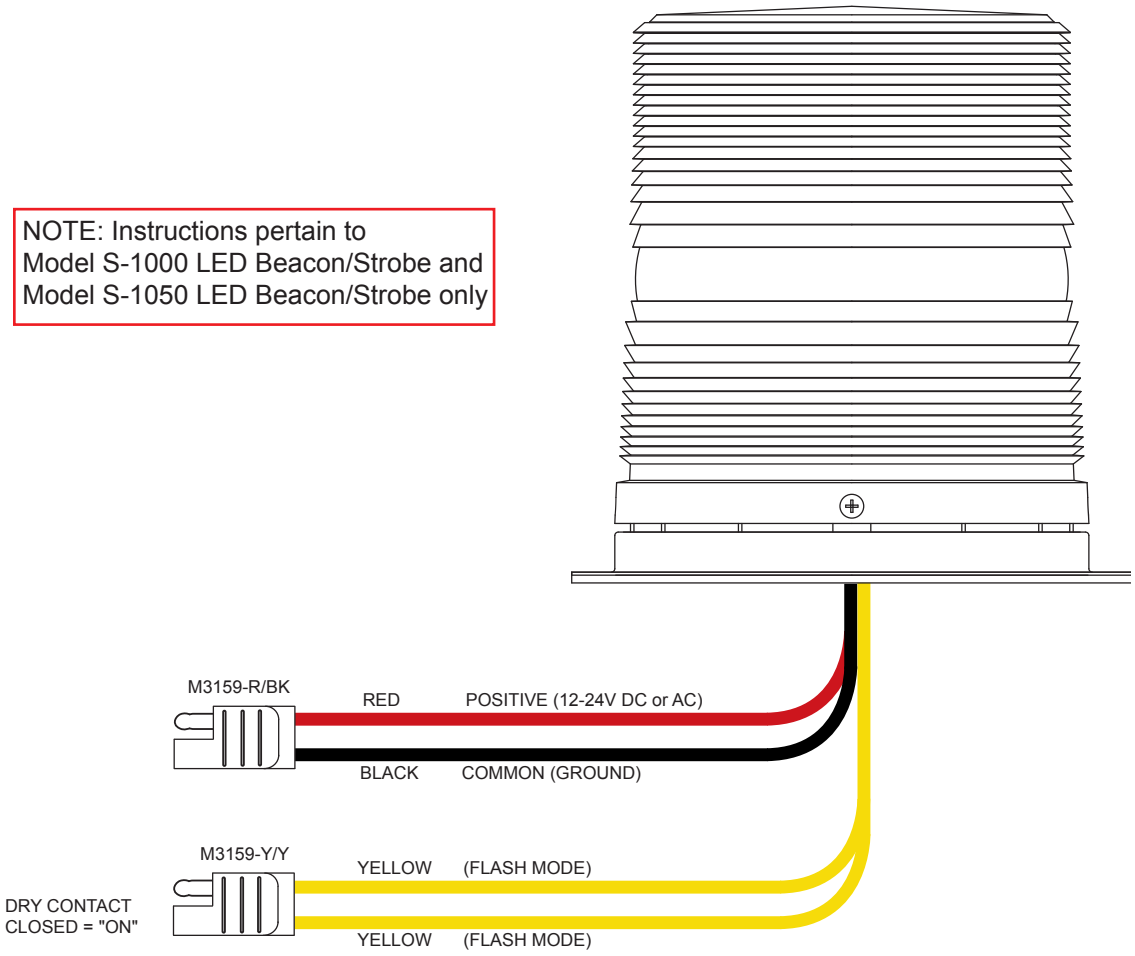
CB 9-T WITH OVERHEAD CAMERA MOUNT



Please contact Customer Service with any questions or concerns.
Email: customerservice@codeblue.com
Phone: 616-392-8296, Opt. 2

17 Optional S-1000 & S-1050 Installation Instructions

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.

ATTENTION: WHEN REPLACING A BEACON/STROBE ON THE MODEL CB 5 SERIES ONLY, MOUNTING SCREW THREADS MUST BE COATED TO PREVENT WATER LEAKAGE INTO THE UNIT.

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: -40^0 C to +65^0 C (-40^0 F to 149^0 F)		
TYPICAL POWER CONSUMPTION AT 25^{0}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.		

18 Remote Mount Beacon/Strobe Installation Instructions

1.0 ATTACH J-BOX TO THE POLE

1.1 Thread the banding (B) through the pole bracket (A) located on the backside of the J-box (C).

1.2 Wrap the banding around the pole. Cut the banding to desired length.

1.3 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.

2.0 ATTACH LIGHT TO BRACKET

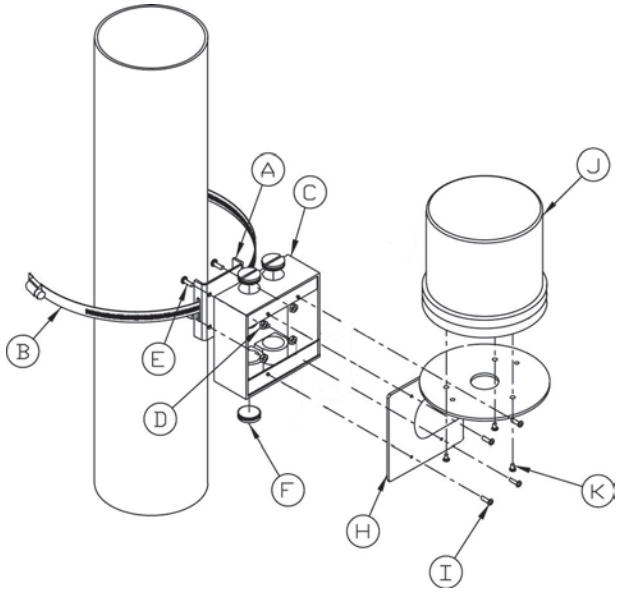
3.1 Using the three M4 X 8 screws enclosed (K), fasten the strobe (J) to the round portion of the strobe bracket.

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.

3.0 ATTACH LIGHT AND BRACKET TO THE J-BOX

4.1 Connect all wiring from the strobe to the wiring from the unit inside of the J-box using wire nuts.

4.2 Attach strobe bracket to the J-box using four 6-32 X ½ 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 ½ screws (4 each)
J - strobe light
K - M4 X 8 screws (3 each) (Low voltage)
K - 10-24 X ¾ 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.

19 PoE Installation Instructions

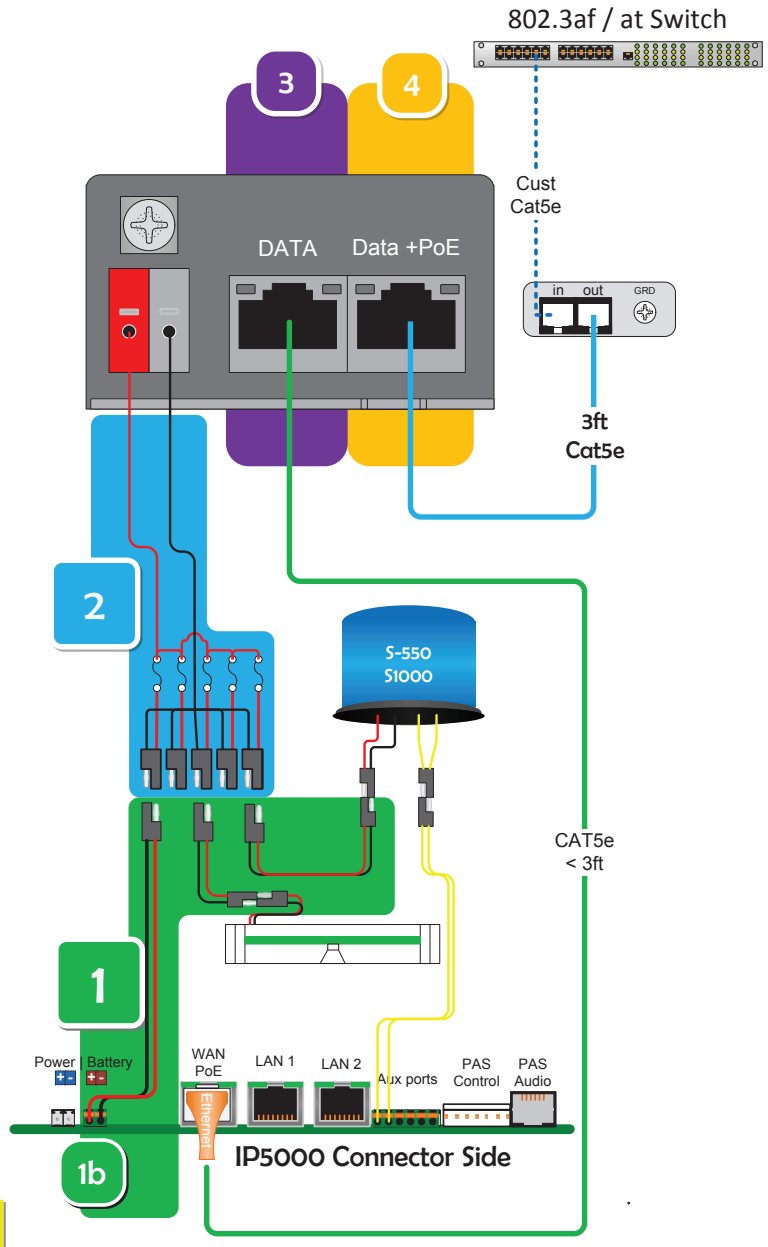
1 First, Electrical connection: All 3 Code Blue device's should to be connected to the 5 place manifold

Special Note: Notice the power cable is connected to the Battery / Alternative Power port of the IP5000. – See Item 1b

2 Second: Manifolds fused red lead and black wires are secured to spring cage connector on the CB14591. SEE DIAGRAM

3 Third Step: Connect the DATA cable RJ-45 from the Splitter "DATA" to the IP5000 WAN PoE port.

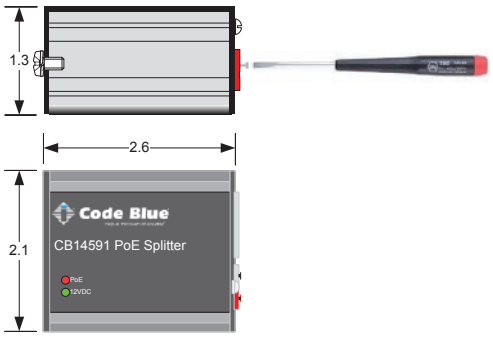
4 Fourth Step: Plug in the Ethernet PoE Cat 5e Cable to Data+PoE Input jack on the Splitters. Upon PoE Negotiation with the PoE switch port, power will be granted to the Splitter, and the indicator along with the device attached will turn on.



Item	InRush (i)	InRush Wattage	Norm (i)	802.3af Wattage	802.3at Wattage
IP5000	0.22	2.64	0.09	1.08	1.08
FP LED	0.08	0.96	0.04	0.48	0.48
Combo LED	0.3	3.6	0.26	3.12	3.12
Totals	**0.6**	**7.20**	**0.39**	**4.68**	**4.68**

Grounding:

Should a ground be needed, there's a ground screw on the enclosure with grounding logo next to it.
When the splitter is mounted to the mounting bracket the bracket becomes the ground to the chassis of the enclosure, however local codes may require a ground wire be attached to the screw in order to comply.



20 CB 9 Series Deck Mount Installation Instructions

1.0 DECK MOUNT FOUNDATION

1.1 Drill Deck Holes – Drill four holes through the deck or floor for the four 3/4” threaded rods. The holes should be aligned, using the template provided in such a way that the phone face-plate on the unit will face in the desired direction (see figure below).

1.2 Drill a fifth hole in the center to accommodate the conduit.

1.3 Position Upper Deck Plate – Position the first plate working from above the deck.

1.3.1 Thread a nut and washer on the end of each rod so that approximately six inches extends beyond the base of the washer.

1.3.2 Insert each rod through the top side of the plate, plate gasket, and down through the four holes in the deck.

NOTE: *The top of the plate is the side with the tapered edge.*

1.4 Position Lower Deck Plate – Position the second plate working from below the deck. Have another worker hold the upper plate and rods in place from above the deck.

1.4.1 Place the second plate gasket and then the second plate over the threaded rods.

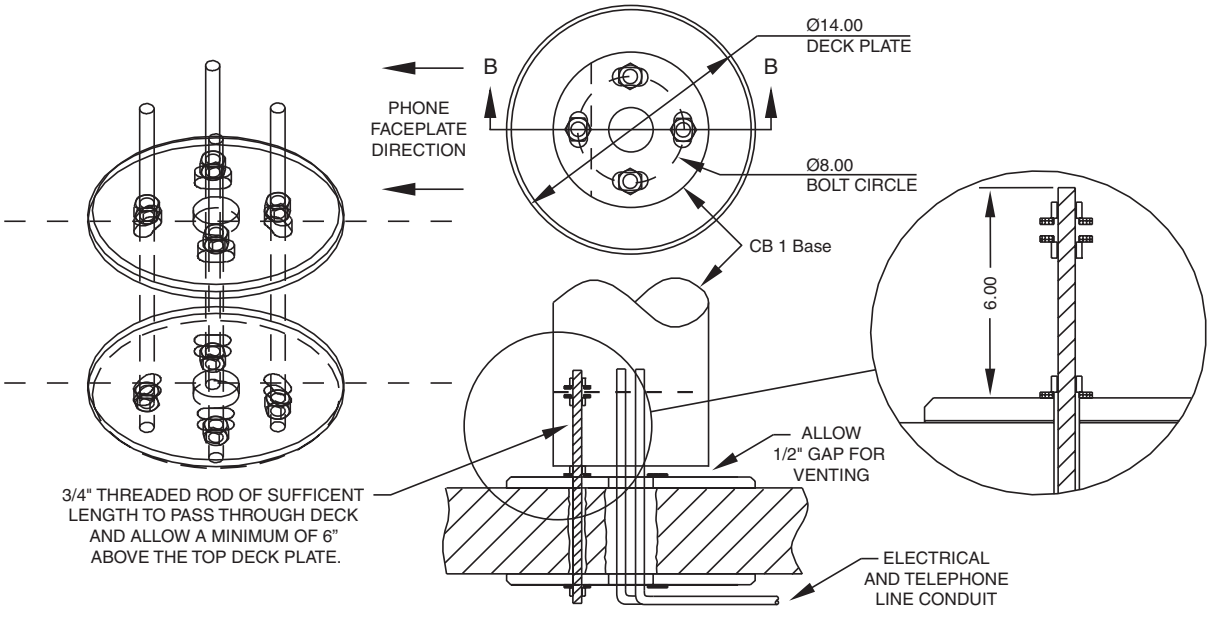
1.4.2 Secure the second plate with nuts and washers provided. If required, readjust the nuts so that six inches of the rods are above the top of the upper plate (see figure below).

1.5 Secure Lower Nuts – To prevent tampering, it is advisable to tack weld the lower nuts to the threaded rod.

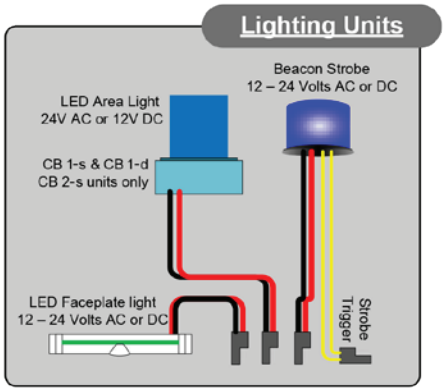
2.0 WIRING

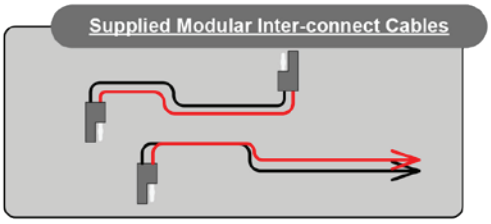
2.1 Pull power and phone line through conduits – A minimum of two feet of wire must be available from the conduit for electrical and communications wiring.

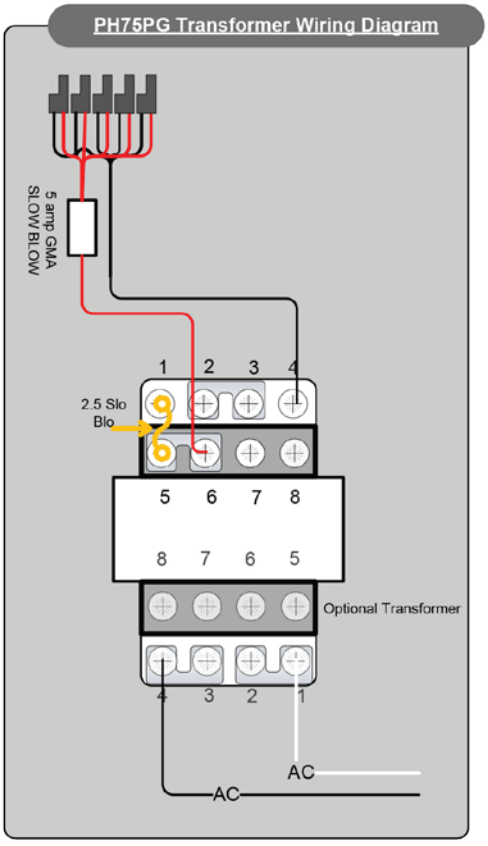
2.2 Conduit – Electrical and telephone line conduit is run through the deck and the center openings (two-inch diameter) of the upper and lower deck plates. A minimum of four inches and a maximum of six inches of conduit above the upper plate is required.

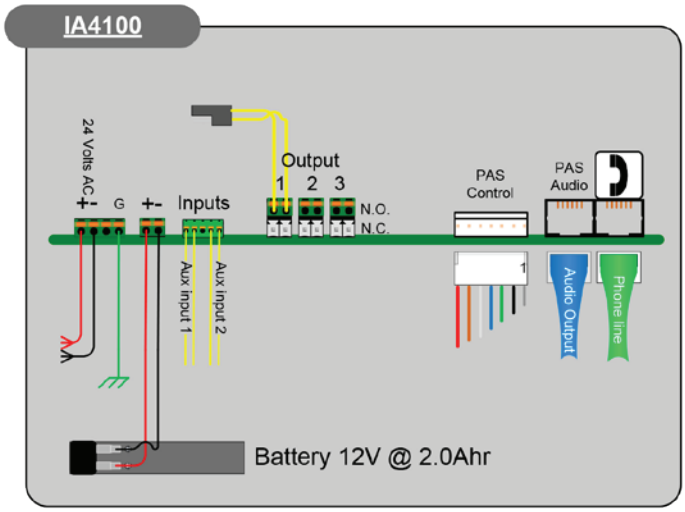


21 CB 9 Series Standard Wiring (prior to 03/2013) (with Hammond Transformer)









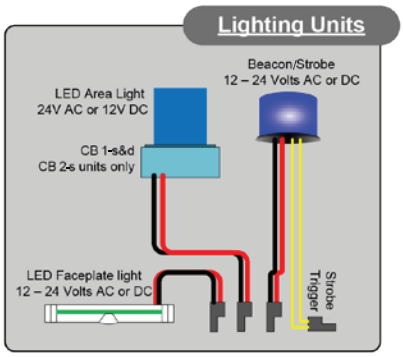
Optional Transformer Wiring

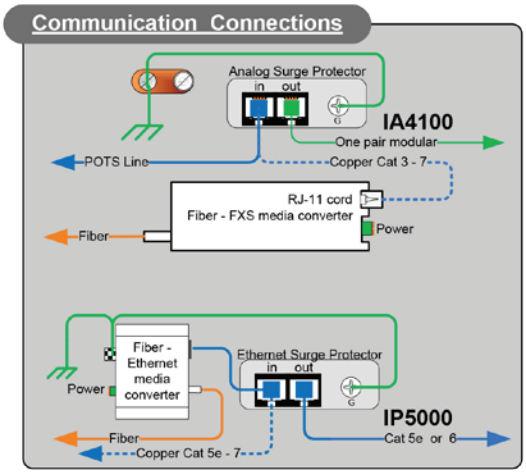
LV side of the transformer connects to the Code Blue harness.

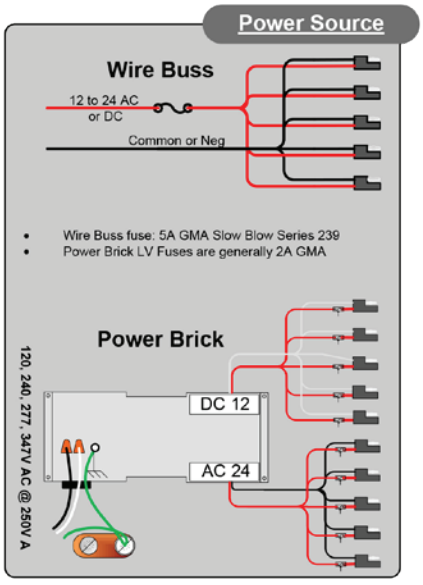
HV side of the transformer is for supply side High Incoming Voltage

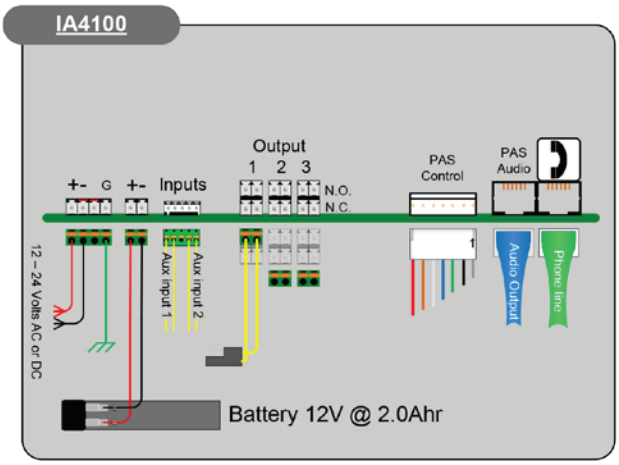
Product wiring diagram shown reasonably represents current offering and is intended to assist in component identification and service. Earlier product production may have different components and wiring connections. Reference the model and serial number from the unit ID tag and contact manufacturer to confirm replacement part version and availability.

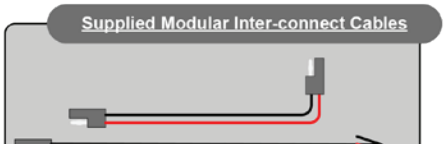
22 CB 9 Series Standard Wiring
(with Multi-tap Power Brick)

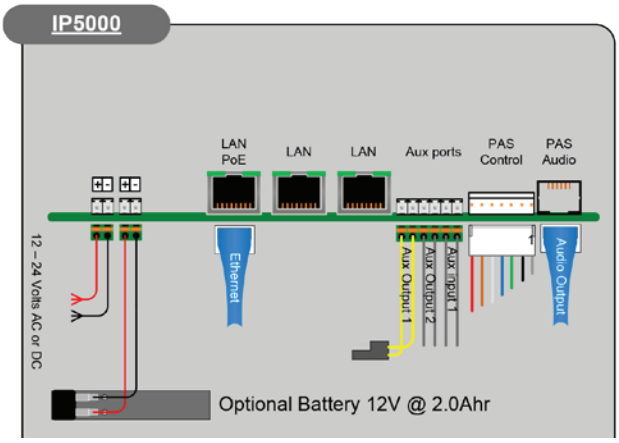






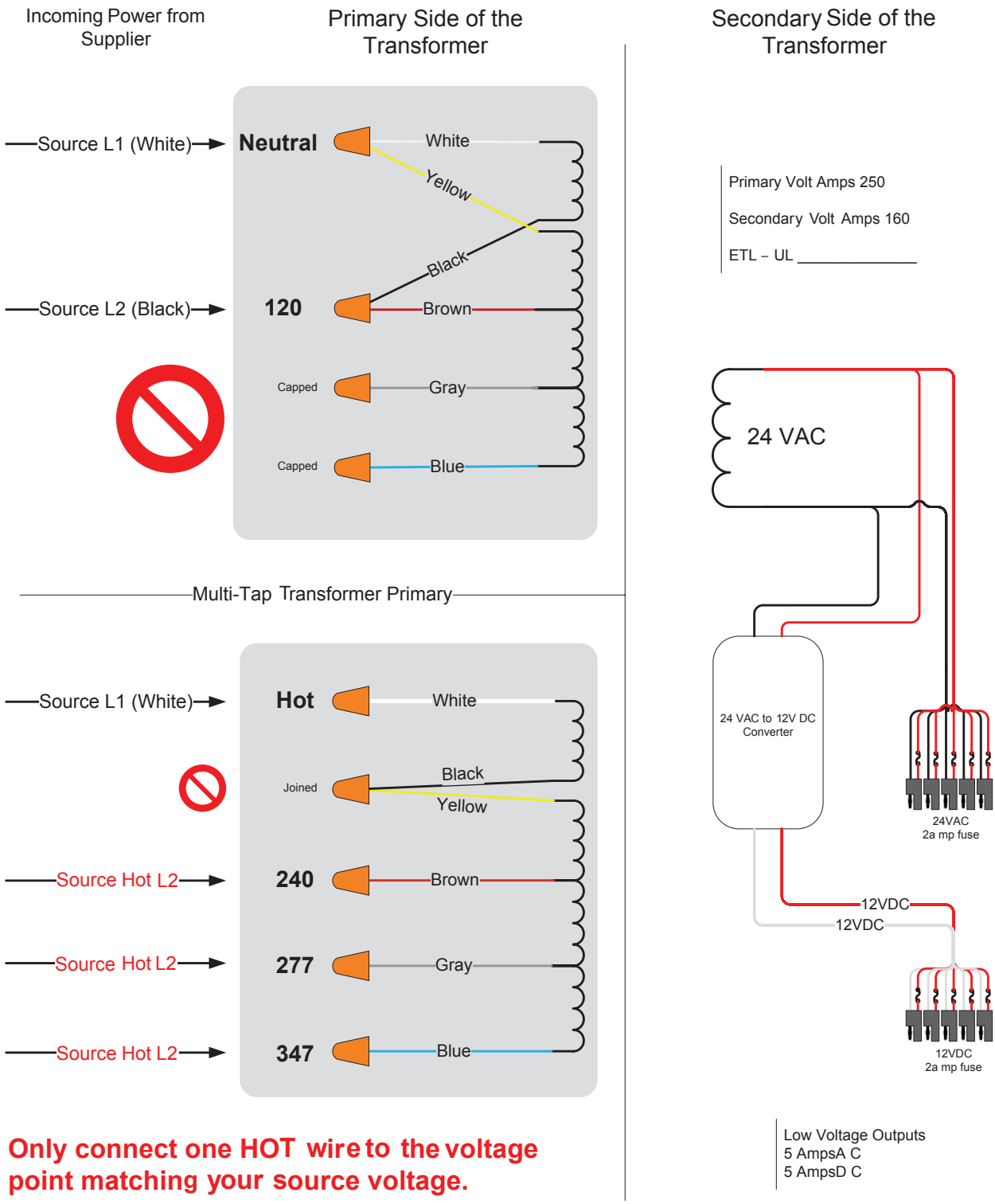






Product wiring diagram shown reasonably represents current offering and is intended to assist in component identification and service. Earlier product production may have different components and wiring connections. Reference the model and serial number from the unit ID tag and contact manufacturer to confirm replacement part version and availability.

23 Multi Tap Transformer Wiring



Only connect one HOT wire to the voltage point matching your source voltage.

24 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 *(pest infestation, damage or obstructions)*
- ❑ Speaker *(pest infestation, damage or obstructions)*

T Check batteries
- ❑ Functioning with full charge
- ❑ Recharging fully, including NightCharge®/Solar units *(NOTE: recommend mid- to late afternoon inspection)*

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 and 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 CB 1, CB 5 and CB 9 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 and coat exterior stainless steel cabinets with cleaner/polish *(Suggested products include Chase Products' Champion Sprayon 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)*

ANNUALLY

T Replace batteries used with NightCharge®, cellular or RF systems *(Replace with batteries recommended by the communication manufacturer to ensure optimal performance)*

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 airborn 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.

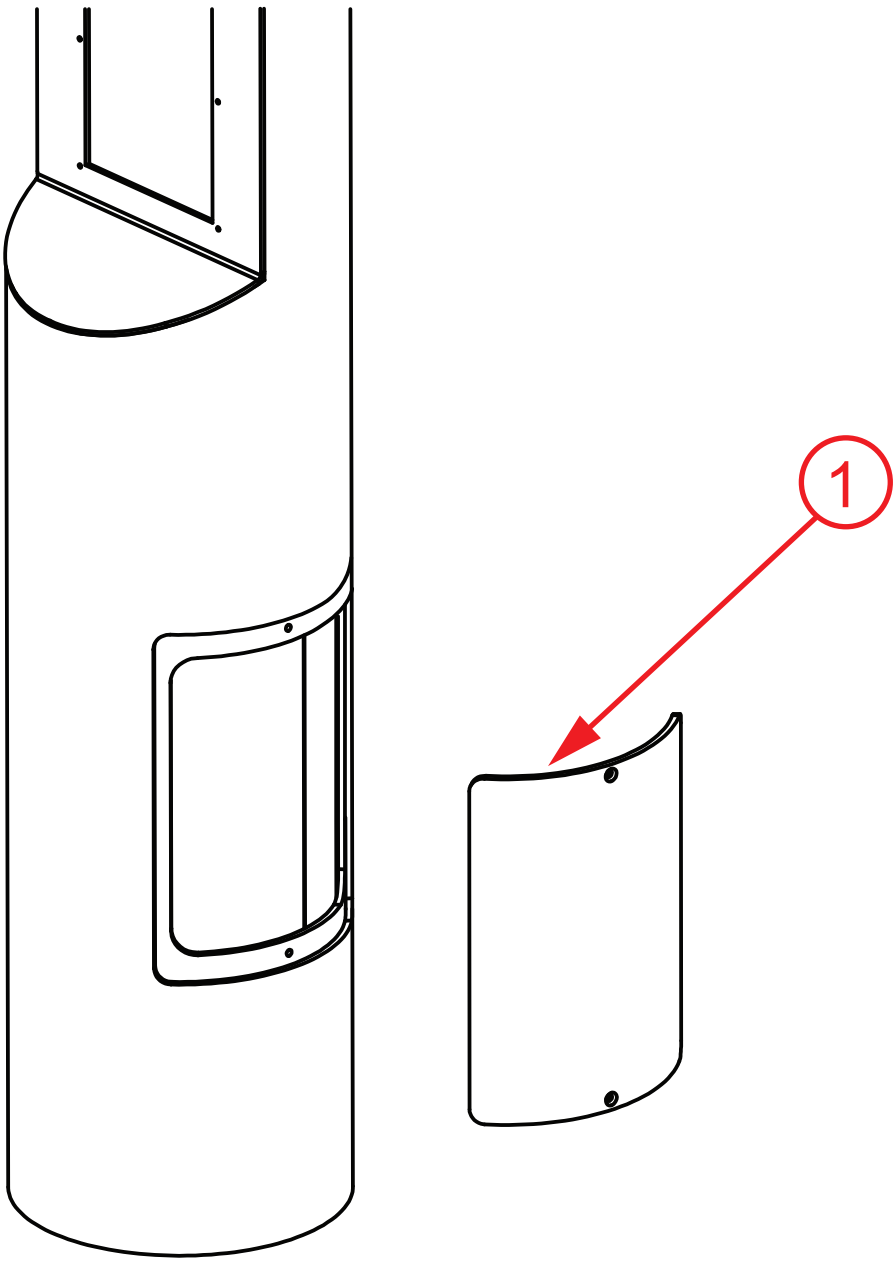
AVERAGE COMPONENT LIFE

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

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

25 Locating Unit Serial Numbers

Remove the access plate cover with the special security bit. The serial number will be listed on the manufacturer's label located on the backside of the access plate cover (1).



26 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/downloads**.

In Case of Breakdown

In case of system breakdown, discontinue use and contact :

Tech Support at **tss@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 Customer Service at **800-205-7186, option 2**.

27 Download Information

Main Location: www.codeblue.com/support/downloads

Code Blue now has a centralized location where you can find Installation, Setup, Information, Configuration & Operation instructions.

1. CB 1 Series Administrator Guide: www.codeblue.com/resources/guides
2. CB 2 Series Administrator Guide: www.codeblue.com/resources/guides
3. CB 4 Series Administrator Guide: www.codeblue.com/resources/guides
4. CB 5 Series Administrator Guide: www.codeblue.com/resources/guides
5. CB 6 Series Administrator Guide: www.codeblue.com/resources/guides
6. CB 9 Series Administrator Guide: www.codeblue.com/resources/guides
7. IA4100 Administrator Guide: www.codeblue.com/resources/guides
8. IA3100 to IA4100 Upgrade Installation: www.codeblue.com/support/downloads
9. IP5000 Administrator Guide: www.codeblue.com/resources/guides
10. IP1500/2500 Administrator Guide: www.codeblue.com/resources/guides
11. IA500 Administrator Guide: www.codeblue.com/resources/guides
12. ToolVox® Administrator Guide (prior to Aug 2014): www.codeblue.com/support/downloads
13. ToolVox X3 Administrator Guide: www.codeblue.com/support/downloads
14. ToolVox UPD User Guide: www.codeblue.com/resources/guides
15. ToolVox Quick Start: www.codeblue.com/support/downloads
16. Public Address Administrator Guide: www.codeblue.com/resources/guides
17. Blue Alert® MNS User Guide: www.codeblue.com/resources/guides
18. Blue Alert® EMS User Guide: www.codeblue.com/resources/guides
19. Blue Alert® Mobile User Guide: www.codeblue.com/resources/guides
20. S-1000 LED Strobe User Guide: www.codeblue.com/resources/guides
21. IP1500 and IP2500 Firmware: www.codeblue.com/support/downloads
22. IP5000 Versions 1.X & 2.X Firmware: www.codeblue.com/support/downloads

For Legacy IA3100 Information:

www.codeblue.com/wp-content/uploads/gu-145_IA3100_Admin_Guide.pdf

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