CB 4 Series

CB 4-s
CB 4-r
CB 4-d
CB 4-u

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

The 4 Series Wall Mount Enclosures

Thank you for choosing the **CB 4 Series** for your Code Blue application.

The **CB 4 Series** is our basic communication unit designed for wall or pole installations in interior and exterior applications. The all-steel housing and Code Blue's speakerphone system meet the need for a highly vandal resistant unit, while providing a cost-effective and reliable solution.

The **CB 4 Series** is a good choice for dorm and building entrances, hallways and transit centers. The exclusive analog InterAct and VoIP speakerphones are designed for maximum reliability, vandal resistance, auxiliary functions, mass notification control, and fault monitoring and reporting capabilities. (see IA4100 or IP5000 guides for more information on our speakerphones)

Our unmistakable craftsmanship makes our enclosures the most rugged on the market, withstanding the punishment of natural and man-made disasters. **CB 4 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
- 180° Public Address Speaker (PAS)
- Remote Mount Beacon/Strobe
- GSM – CB 4-u Only
- NightCharge® – CB 4-u only
- Solar – CB 4-u only
- Directory Plate
- Color IP Camera – CB 4-d only
- Custom Cut-out Stainless Steel Plate – CB 4-u only

This guide contains all of the Code Blue CB 4 Series information for the CB 4-s, CB 4-u, CB 4-d and CB 4-r. This guide contains a general overview of the CB 4 Series options and its application, installation and wiring.

CB 4-s

CB 4-r

CB 4-d

CB 4-u

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 go to 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	Wall Anchor Kit - 4-3/8 Bolts, 4-Washers, 4-Rubber Washers 4-Cement Anchors
1	Security Bit
1	Enclosure - CB 4-s, CB 4-r, CB 4-d or CB 4-u
1	Access Plate – CB 4-u Only
1	URL listing sheet of Installation, Programming, Wiring & Warranty locations
1	Blank Stainless Steel Plate - CB 4-d only
1	55-amp Battery – CB 4-u Solar only
1	Solar Panel Assembly – CB 4-u only

Tools Required

CB 4-s, CB 4-r and CB 4-d

1. Ladder to reach above unit – For Remote Beacon/Strobe Only
2. Drill and security bit for removing and inserting security screws on phone
3. 3/8 socket set to mount unit onto wall

CB 4-u

1. Ladder to reach above unit – CB4-u Solar or Remote Mount Beacon/Strobe Kit
2. Drill and security bit for removing and inserting security screws on phone and access plate
3. t
4. 3/8 socket set to mount unit onto wall
5. Banding Tool for Pole Mount Kit

4 Spare Parts

CB 4-s

Part	Part Number
Faceplate Screws	41544 (6pk)
Manifold R/B 5-way	40101
Analog Surge Suppressor	41471
IP Surge Suppressor	41421

CB 4-d

Part	Part Number
Faceplate Screws	41544 (6pk)
Manifold R/B 5-way	40101
Analog Surge Suppressor	41471
IP Surge Suppressor	41421
Blank Stainless Steel Plate Assembly	40066

CB 4-r

Part	Part Number
LED Faceplate Light	40196
Faceplate Screws	41544 (6pk)
Analog Surge Suppressor	41471
IP Surge Suppressor	41421
Manifold R/B 5-way	40101

CB 4-u

Part	Part Number
LED Faceplate Light	40196
Faceplate Screws	41544 (6pk)
Access Plate Screws	41500 x 2
Manifold R/B 5-way	40101
Analog Surge Suppressor	41471
IP Surge Suppressor	41421

CB 4 Series Additional Options

Part	Part Number
Solar Battery – CB 4-u only	41537
Solar Panel – CB 4-u only	40156
GSM Assembly – CB 4-u only - Solar only	40028
GSM Assembly – CB 4-u only – NightCharge® only	40026
Service Plate - Lexan w/graphics (This Location Being Serviced)	40208
Pole Mount Kit	40027
Triad Transformer 40VA 120V (will not power accessories) – CB 4-u only	41246
Remote Mount Beacon/Strobe Kit	40525
POE Power Splitter Kit Assembly	41574
IP5000 Speakerphone FP1	50101
IP5000 Speakerphone FP2	50102
IP5000 Speakerphone FP3	50103
Directory Plate Assembly – CB 4-d only	40057
Color Camera Assembly – CB 4-d only	41420
Wind Operated Generator – CB 4-u only	40355
Remote Mount Beacon Kit (Photocell)	40528
Multi-tap Power Brick – CB 4-u only	40104
Curb Mount Stand – (Excludes the CB 4-u)	41432

5 Power Requirements

(The following power requirements include the 4 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.

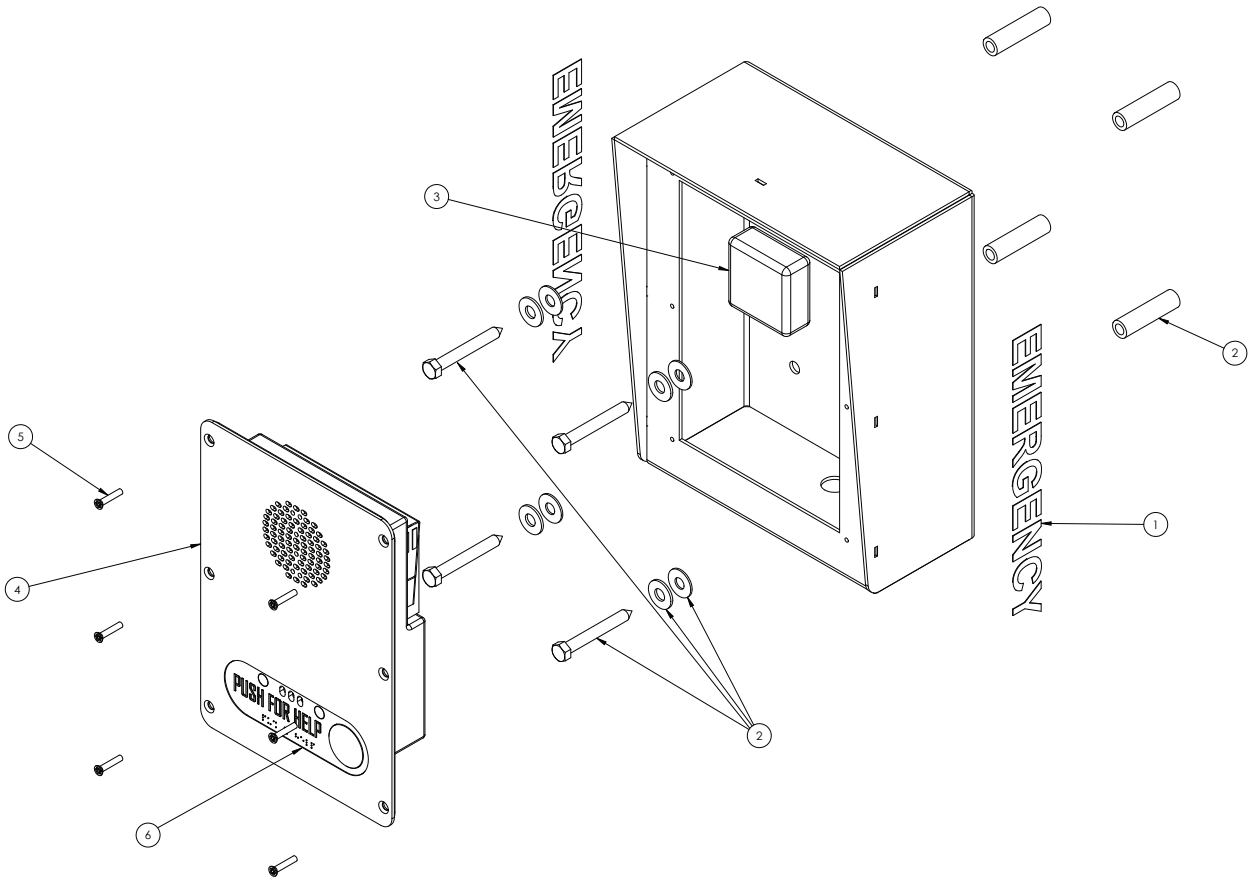
Blue Alert® EMS

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 4-s Low Voltage Exploded View



BALL #	PART #	DESCRIPTION
1	CALL	Standard / Custom Graphic
2	40102	Wall Anchor Kit
3	41471	Analog Surge Suppressor
3	41421	IP Surge Suppressor
4	50001	Single Button IA4100 Analog Phone – PUSH FOR HELP
4	50002	Double Button IA4100 Analog Phone – PUSH FOR HELP
4	50003	Keypad IA4100 Analog Phone – PUSH FOR HELP
4	50004	Single Button IA4100 Analog Phone – EMERGENCY
4	50005	Double Button IA4100 Analog Phone – EMERGENCY
4	50006	Keypad IA4100 Analog Phone – EMERGENCY
4	50007	Single Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
4	50008	Double Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
4	50009	Keypad IA4100 Analog Phone – EMERGENCY/EMERGENCIA
4	50101	Single Button IP5000 Phone – PUSH FOR HELP
4	50102	Double Button IP5000 Phone – PUSH FOR HELP

BALL #	PART #	DESCRIPTION
4	50103	Keypad IP5000 Phone – PUSH FOR HELP
4	50104	Single Button IP5000 Phone – EMERGENCY
4	50105	Double Button IP5000 Phone – EMERGENCY
4	50106	Keypad IP5000 Phone – EMERGENCY
4	50107	Single Button IP5000 Phone – EMERGENCY/EMERGENCIA
4	50108	Double Button IP5000 Phone – EMERGENCY/EMERGENCIA
4	50109	Keypad IP5000 Phone – EMERGENCY/EMERGENCIA
5	41544	Faceplate Security Screw 10x24 (6 pk)
6	40357	Bezel Assembly IA4100 Analog Phone – PUSH FOR HELP
6	40407	Bezel Assembly IA4100 Analog Phone – EMERGENCY
6	40408	Bezel Assembly IA4100 Analog Phone – EMERGENCY/EMERGENCIA
6	40313	Bezel Assembly IP5000 Analog Phone – PUSH FOR HELP
6	40405	Bezel Assembly IP5000 Analog Phone – EMERGENCY
6	40406	Bezel Assembly IP5000 Analog Phone – EMERGENCY/EMERGENCIA

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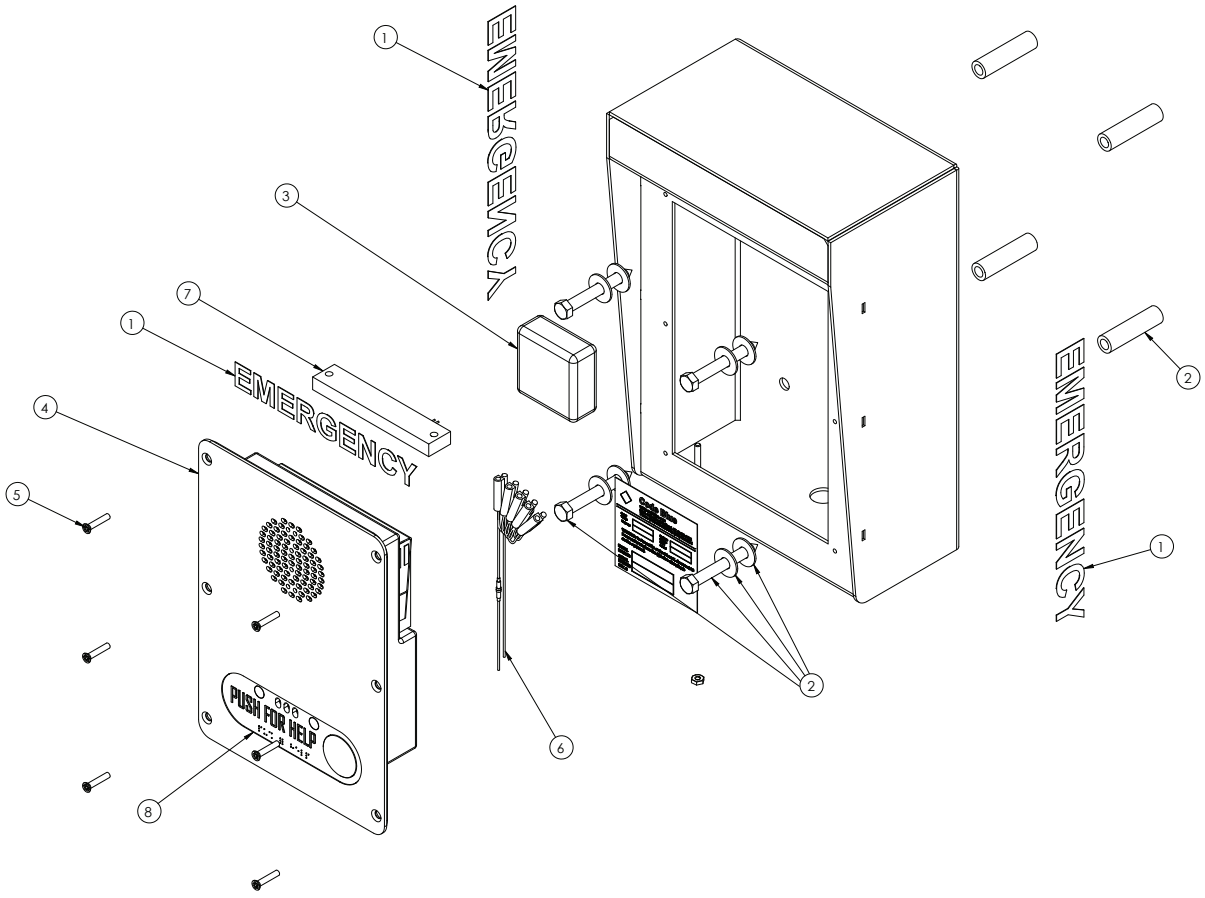
8 CB 4-r Low Voltage Exploded View



BALL #	PART #	DESCRIPTION
1	CALL	Standard / Custom Graphic
2	40102	Wall Anchor Kit
3	41471	Analog Surge Suppressor
3	41421	IP Surge Suppressor
4	50001	Single Button IA4100 Analog Phone – PUSH FOR HELP
4	50002	Double Button IA4100 Analog Phone – PUSH FOR HELP
4	50003	Keypad IA4100 Analog Phone – PUSH FOR HELP
4	50004	Single Button IA4100 Analog Phone – EMERGENCY
4	50005	Double Button IA4100 Analog Phone – EMERGENCY
4	50006	Keypad IA4100 Analog Phone – EMERGENCY
4	50007	Single Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
4	50008	Double Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
4	50009	Keypad IA4100 Analog Phone – EMERGENCY/EMERGENCIA
4	50101	Single Button IP5000 Phone – PUSH FOR HELP
4	50102	Double Button IP5000 Phone – PUSH FOR HELP
4	50103	Keypad IP5000 Phone – PUSH FOR HELP

BALL #	PART #	DESCRIPTION
4	50104	Single Button IP5000 Phone – EMERGENCY
4	50105	Double Button IP5000 Phone – EMERGENCY
4	50106	Keypad IP5000 Phone – EMERGENCY
4	50107	Single Button IP5000 Phone – EMERGENCY/EMERGENCIA
4	50108	Double Button IP5000 Phone – EMERGENCY/EMERGENCIA
4	50109	Keypad IP5000 Phone – EMERGENCY/EMERGENCIA
5	41544	Faceplate Security Screw 10x24 (6 pk)
6	40101	Manifold R/B 5-way
7	41548	LED Faceplate Light
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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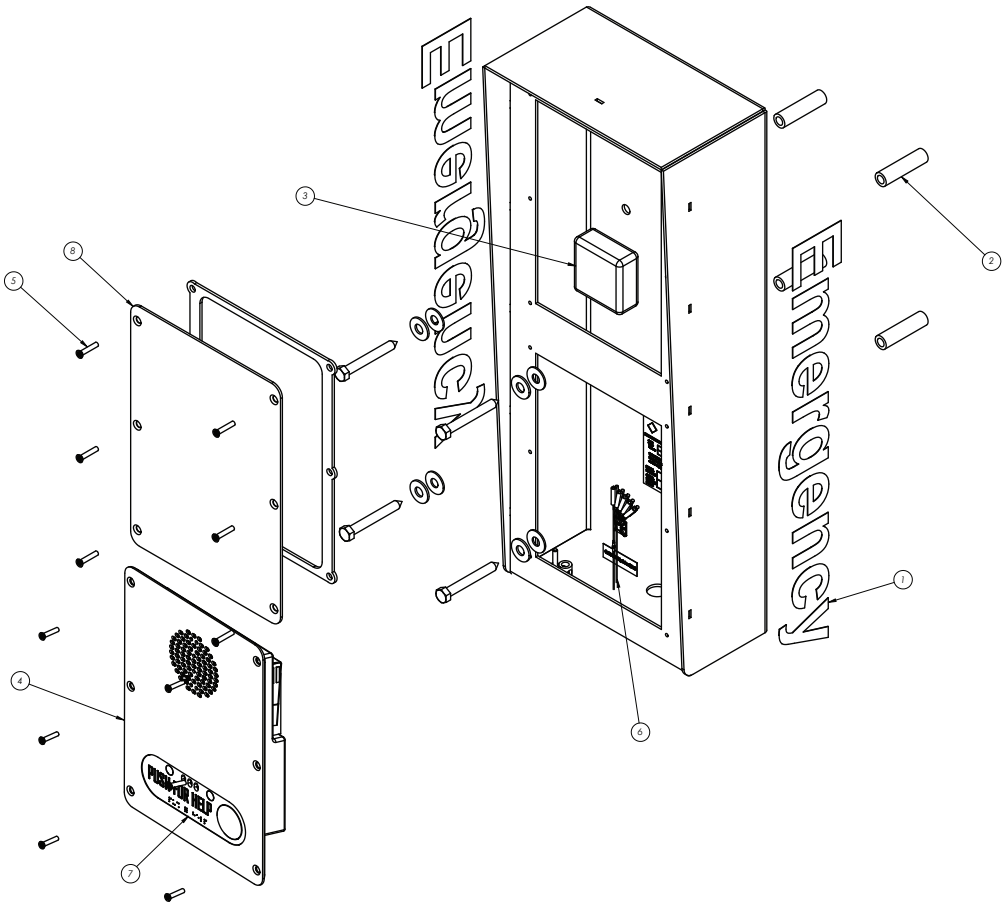
9 CB 4-d Low Voltage Exploded View



BALL #	PART #	DESCRIPTION
1	CALL	Standard / Custom Graphic
2	40102	Wall Anchor Kit
3	41471	Analog Surge Suppressor
3	41421	IP Surge Suppressor
4	50001	Single Button IA4100 Analog Phone – PUSH FOR HELP
4	50002	Double Button IA4100 Analog Phone – PUSH FOR HELP
4	50003	Keypad IA4100 Analog Phone – PUSH FOR HELP
4	50004	Single Button IA4100 Analog Phone – EMERGENCY
4	50005	Double Button IA4100 Analog Phone – EMERGENCY
4	50006	Keypad IA4100 Analog Phone – EMERGENCY
4	50007	Single Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
4	50008	Double Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
4	50009	Keypad IA4100 Analog Phone – EMERGENCY/EMERGENCIA
4	50101	Single Button IP5000 Phone – PUSH FOR HELP
4	50102	Double Button IP5000 Phone – PUSH FOR HELP
4	50103	Keypad IP5000 Phone – PUSH FOR HELP
4	50104	Single Button IP5000 Phone – EMERGENCY
4	50105	Double Button IP5000 Phone – EMERGENCY

BALL #	PART #	DESCRIPTION
4	50106	Keypad IP5000 Phone – EMERGENCY
4	50107	Single Button IP5000 Phone – EMERGENCY/EMERGENCIA
4	50108	Double Button IP5000 Phone – EMERGENCY/EMERGENCIA
4	50109	Keypad IP5000 Phone – EMERGENCY/EMERGENCIA
5	41544	Faceplate Security Screw 10x24 (6 pk)
6	40101	Manifold R/B 5-way
7	40357	Bezel Assembly IA4100 Analog Phone – PUSH FOR HELP
7	40407	Bezel Assembly IA4100 Analog Phone – EMERGENCY
7	40408	Bezel Assembly IA4100 Analog Phone – EMERGENCY/EMERGENCIA
7	40313	Bezel Assembly IP5000 Analog Phone – PUSH FOR HELP
7	40405	Bezel Assembly IP5000 Analog Phone – EMERGENCY
7	40406	Bezel Assembly IP5000 Analog Phone – EMERGENCY/EMERGENCIA
8	40066	Blank Plate Assembly
8	40067	Directory Assembly
8	40130	Color Camera Assembly
8	40131	Card Reader Assembly
8	40157	Color Camera and Card Reader Assembly

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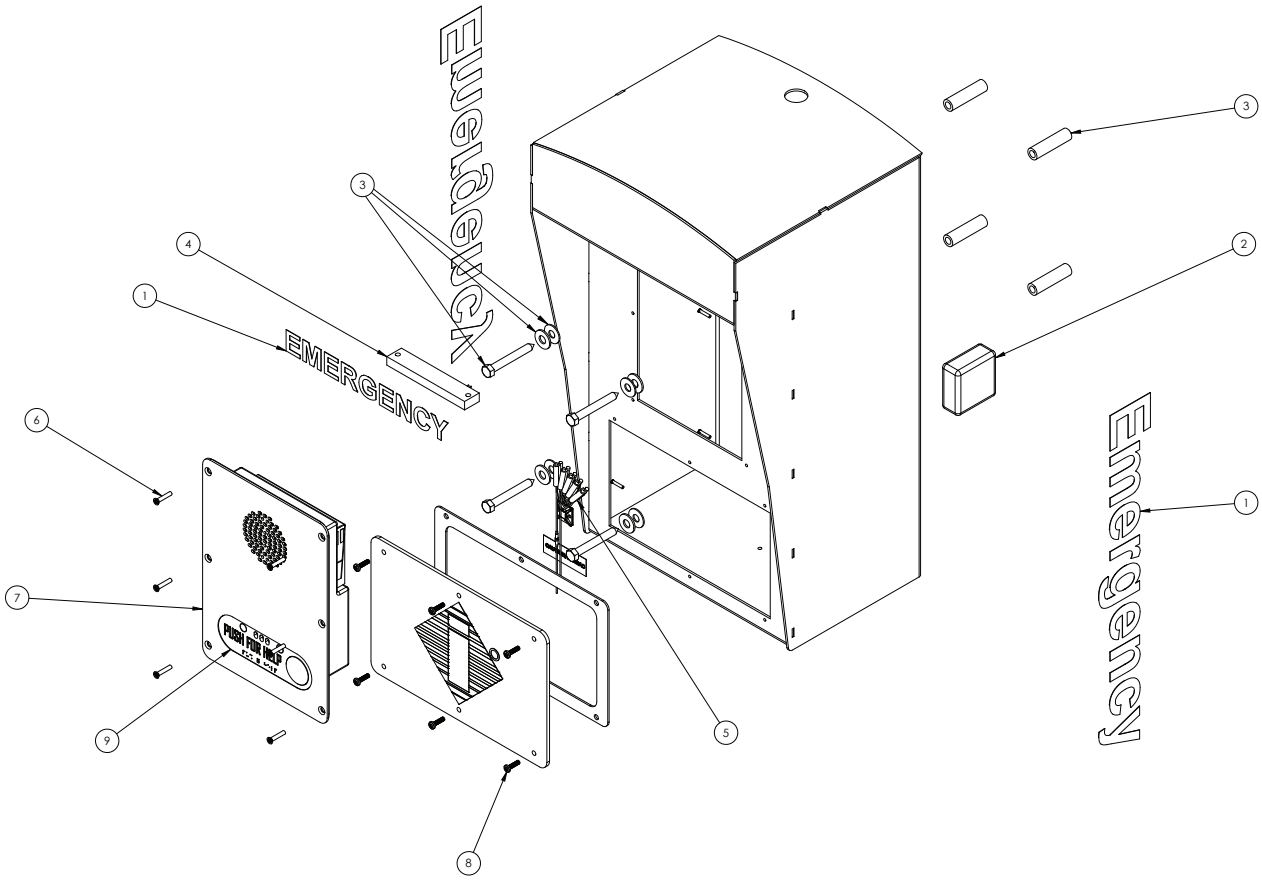
10 CB 4-u Low Voltage Exploded View



BALL #	PART #	DESCRIPTION
1	CALL	Standard / Custom Graphic
2	41471	Analog Surge Suppressor
2	41421	IP Surge Suppressor
3	40102	Wall Anchor Kit
4	41548	LED Faceplate Light
5	40101	Manifold R/B 5-way
6	41544	Faceplate Security Screw 10x24 (6 pk)
7	50001	Single Button IA4100 Analog Phone – PUSH FOR HELP
7	50002	Double Button IA4100 Analog Phone – PUSH FOR HELP
7	50003	Keypad IA4100 Analog Phone – PUSH FOR HELP
7	50004	Single Button IA4100 Analog Phone – EMERGENCY
7	50005	Double Button IA4100 Analog Phone – EMERGENCY
7	50006	Keypad IA4100 Analog Phone – EMERGENCY
7	50007	Single Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
7	50008	Double Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
7	50009	Keypad IA4100 Analog Phone – EMERGENCY/EMERGENCIA

BALL #	PART #	DESCRIPTION
7	50101	Single Button IP5000 Phone – PUSH FOR HELP
7	50102	Double Button IP5000 Phone – PUSH FOR HELP
7	50103	Keypad IP5000 Phone – PUSH FOR HELP
7	50104	Single Button IP5000 Phone – EMERGENCY
7	50105	Double Button IP5000 Phone – EMERGENCY
7	50106	Keypad IP5000 Phone – EMERGENCY
7	50107	Single Button IP5000 Phone – EMERGENCY/EMERGENCIA
7	50108	Double Button IP5000 Phone – EMERGENCY/EMERGENCIA
7	50109	Keypad IP5000 Phone – EMERGENCY/EMERGENCIA
8	41418	Button Head Security Screws (3 pk)
9	40357	Bezel Assembly IA4100 Analog Phone – PUSH FOR HELP
9	40407	Bezel Assembly IA4100 Analog Phone – EMERGENCY
9	40408	Bezel Assembly IA4100 Analog Phone – EMERGENCY/EMERGENCIA
9	40313	Bezel Assembly IP5000 Analog Phone – PUSH FOR HELP
9	40405	Bezel Assembly IP5000 Analog Phone – EMERGENCY
9	40406	Bezel Assembly IP5000 Analog Phone – EMERGENCY/EMERGENCIA

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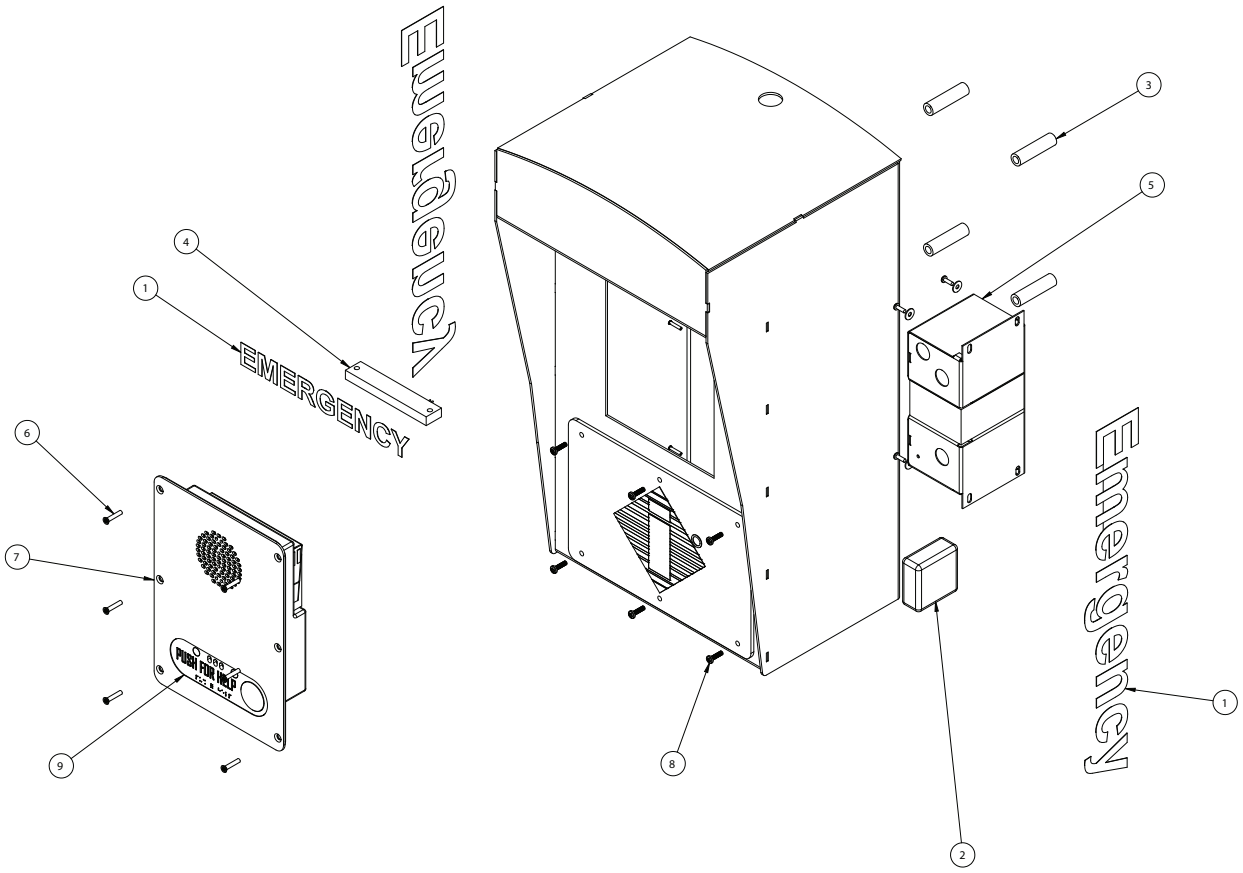
11 CB 4-u High Voltage Exploded View



BALL #	PART #	DESCRIPTION
1	CALL	Standard / Custom Graphic
2	41471	Analog Surge Suppressor
2	41421	IP Surge Suppressor
3	40102	Wall Anchor Kit
4	41548	LED Faceplate Light
5	40104	Power Brick 120V, 240V, 277V, 347V
6	41544	Faceplate Security Screw 10x24 (6 pk)
7	50001	Single Button IA4100 Analog Phone – PUSH FOR HELP
7	50002	Double Button IA4100 Analog Phone – PUSH FOR HELP
7	50003	Keypad IA4100 Analog Phone – PUSH FOR HELP
7	50004	Single Button IA4100 Analog Phone – EMERGENCY
7	50005	Double Button IA4100 Analog Phone – EMERGENCY
7	50006	Keypad IA4100 Analog Phone – EMERGENCY
7	50007	Single Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
7	50008	Double Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
7	50009	Keypad IA4100 Analog Phone – EMERGENCY/EMERGENCIA

BALL #	PART #	DESCRIPTION
7	50101	Single Button IP5000 Phone – PUSH FOR HELP
7	50102	Double Button IP5000 Phone – PUSH FOR HELP
7	50103	Keypad IP5000 Phone – PUSH FOR HELP
7	50104	Single Button IP5000 Phone – EMERGENCY
7	50105	Double Button IP5000 Phone – EMERGENCY
7	50106	Keypad IP5000 Phone – EMERGENCY
7	50107	Single Button IP5000 Phone – EMERGENCY/EMERGENCIA
7	50108	Double Button IP5000 Phone – EMERGENCY/EMERGENCIA
7	50109	Keypad IP5000 Phone – EMERGENCY/EMERGENCIA
8	41418	Button Head Security Screws (3 pk)
9	40357	Bezel Assembly IA4100 Analog Phone – PUSH FOR HELP
9	40407	Bezel Assembly IA4100 Analog Phone – EMERGENCY
9	40408	Bezel Assembly IA4100 Analog Phone – EMERGENCY/EMERGENCIA
9	40313	Bezel Assembly IP5000 Analog Phone – PUSH FOR HELP
9	40405	Bezel Assembly IP5000 Analog Phone – EMERGENCY
9	40406	Bezel Assembly IP5000 Analog Phone – EMERGENCY/EMERGENCIA

DISCLAIMER: Product design and component use subject to change without notice. Product shown reasonably represents current offering and is intended to assist in component identification. Reference the model and serial number from the unit ID tag and contact manufacturer to confirm replacement part version and availability.

12 CB 4-s Installation Instructions

1.0 PRE-INSTALLATION

1.1 **Electrical preparation** – The unit may have supply wires run from either A) behind the unit through the wall, or B) below the unit using an external conduit through the bottom of the unit's back plate. Holes in the back and bottom of the unit have been provided for this purpose.

2.0 INSTALLATION PROCEDURES

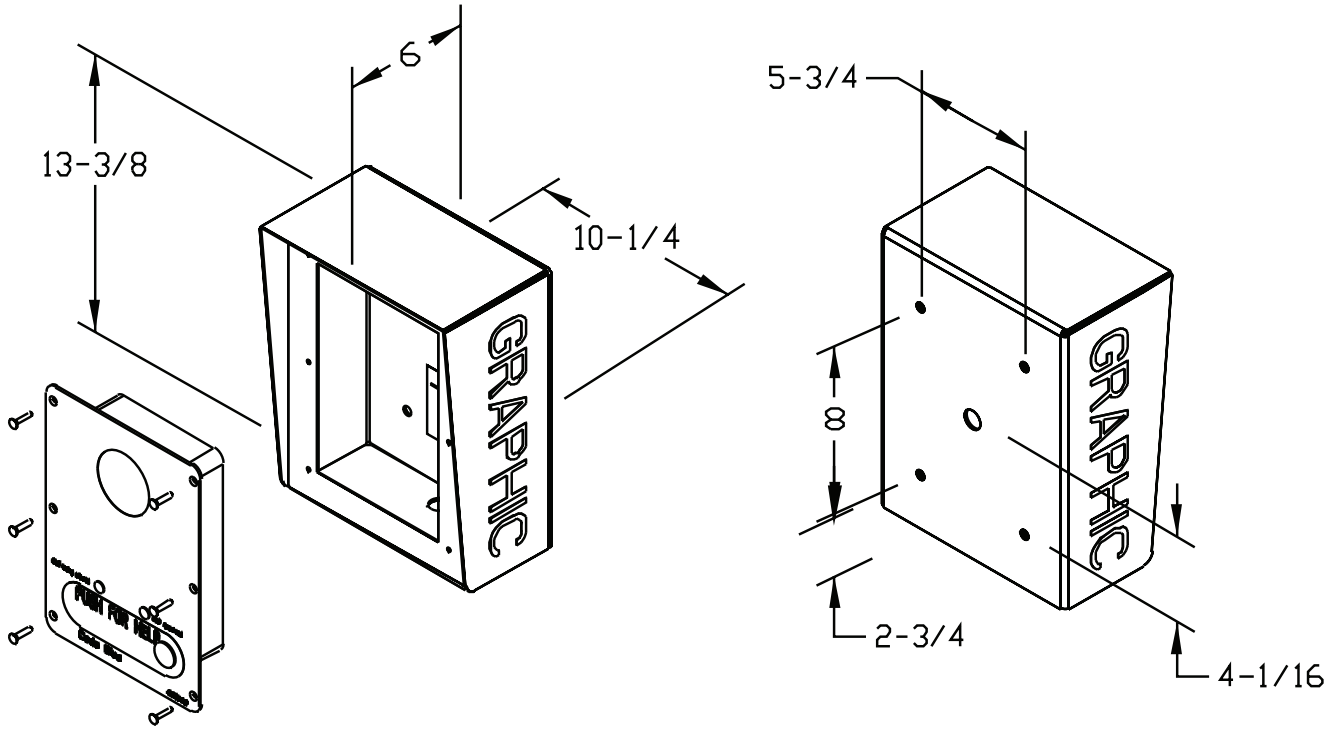
2.1 **Mark the mounting holes** – In order to comply with the Americans with Disabilities Act (ADA) of 1990, the speakerphone button(s) should be positioned between 34 and 48 inches from grade level. (Consult an ADA specialist in your area to verify local and federal guidelines.)

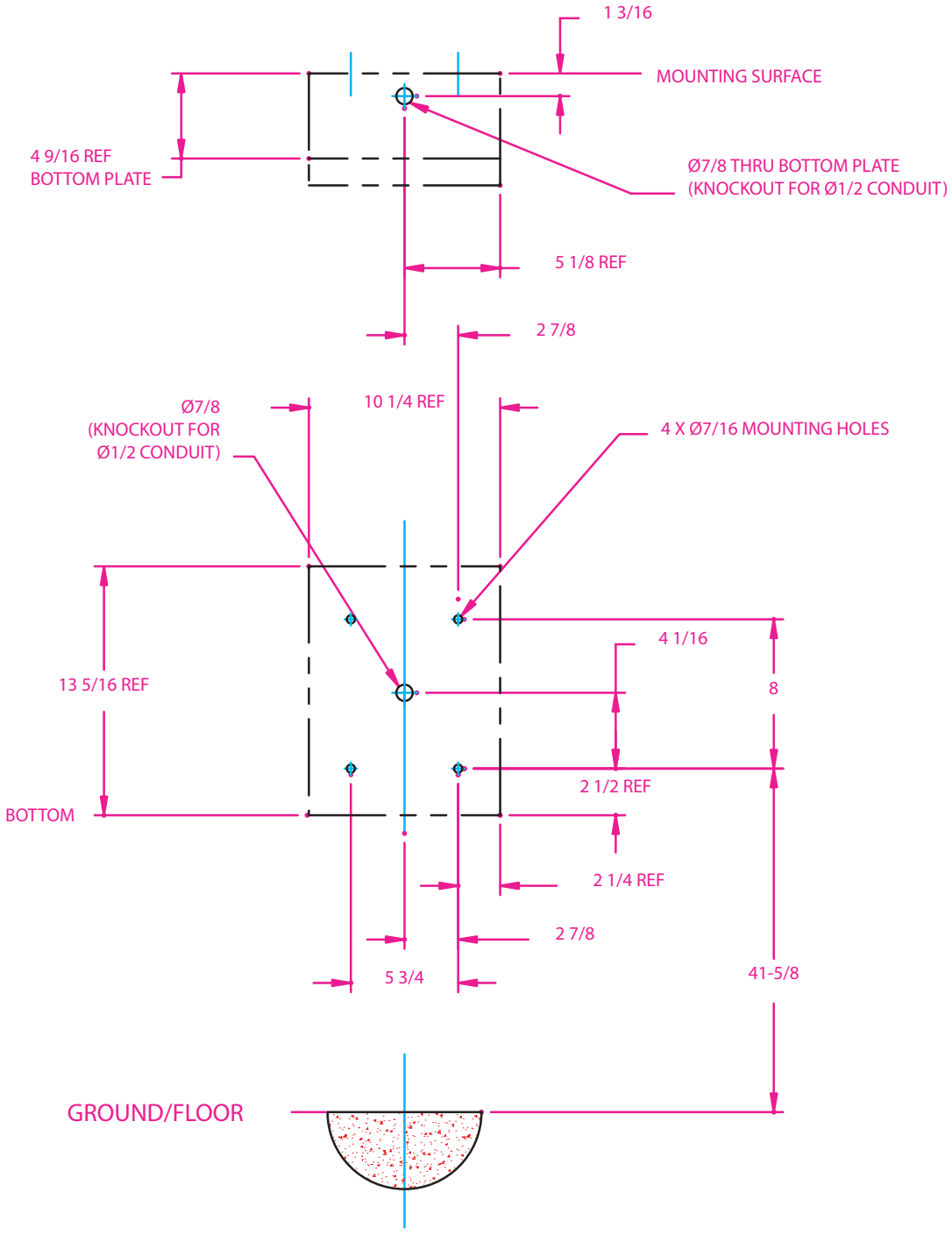
2.2 Drill all marked holes.

2.3 **Secure the housing to the wall** – Four anchors of appropriate size and type should be used to securely fasten the housing to the wall or pole mount.

IMPORTANT: *If wiring is coming in from the back, ensure that the conduit is aligned at this time.*

2.4 Connect electrical and communications wiring. Follow all federal and local codes that apply.





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

- 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.

13 CB 4-d Installation Instructions

1.0 PRE-INSTALLATION

1.1 **Electrical preparation** – The unit may have supply wires run from either A) behind the unit through the wall, or B) below the unit using an external conduit through the bottom of the unit's back plate. Holes in the back and bottom of the unit have been provided for this purpose.

2.0 INSTALLATION PROCEDURES

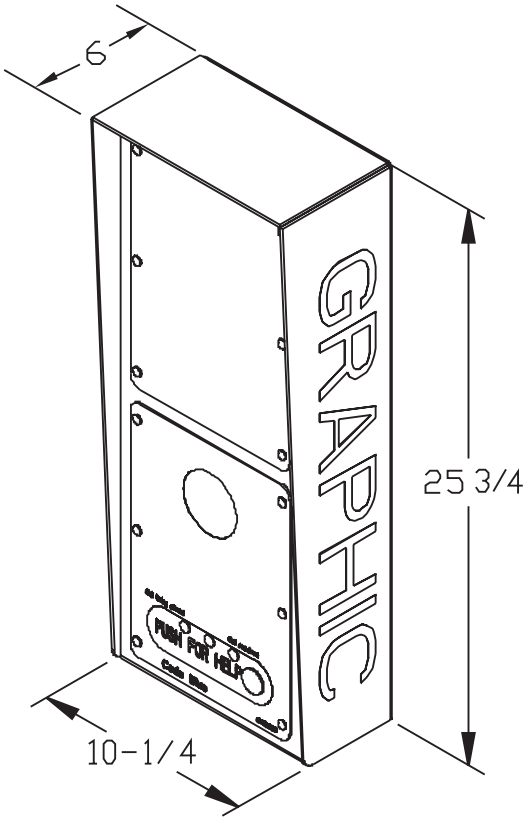
2.1 **Mark the mounting holes** – In order to comply with the Americans with Disabilities Act (ADA) of 1990, the speakerphone button(s) should be positioned between 34 and 48 inches from grade level. (Consult an ADA specialist in your area to verify local and federal guidelines.)

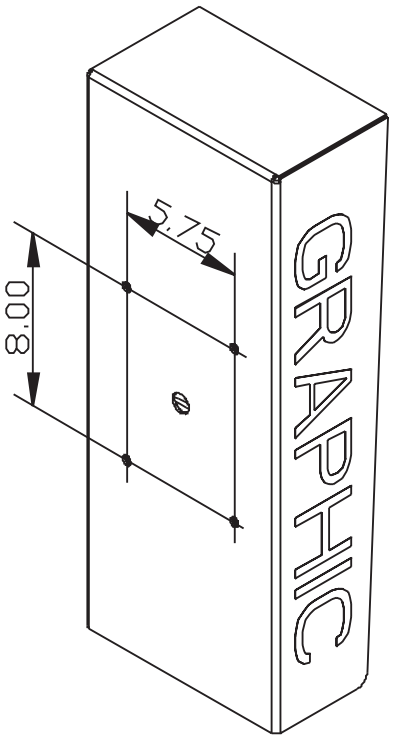
2.2 Drill all marked holes.

2.3 **Secure the housing to the wall** – Four anchors of appropriate size and type should be used to securely fasten the housing to the wall or pole mount.

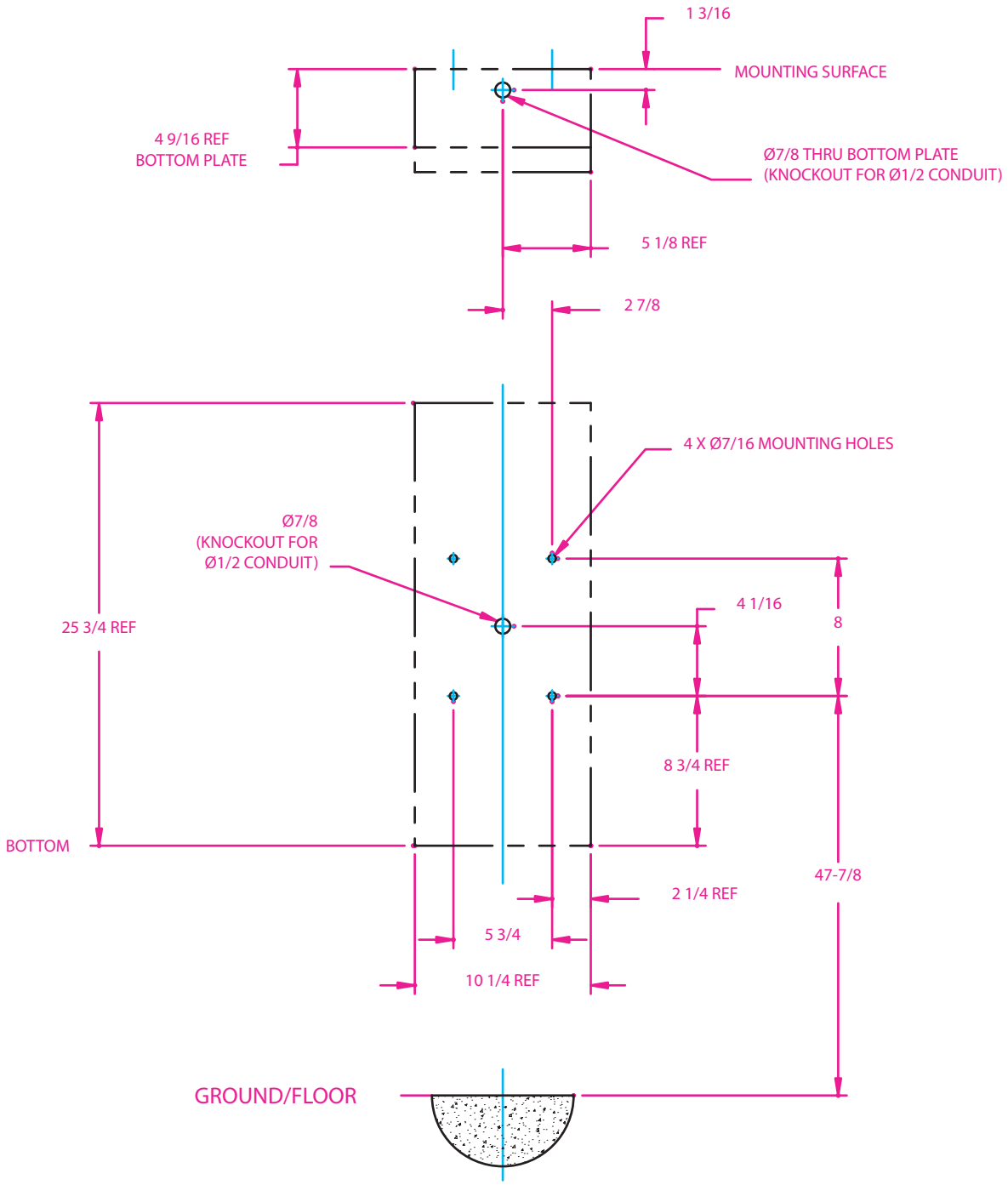
IMPORTANT: *If wiring is coming in from the back, ensure that the conduit is aligned at this time.*

2.4 **Connect electrical and communications wiring**. Follow all federal and local codes that apply.





See diagrams next page



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.

14 CB 4-r Installation Instructions

1.0 PRE-INSTALLATION

1.1 **Electrical preparation** – The unit may have supply wires run from either A) behind the unit through the wall, or B) below the unit using an external conduit through the bottom of the unit. Holes in the back and bottom of the unit have been provided for this purpose.

2.0 INSTALLATION PROCEDURES

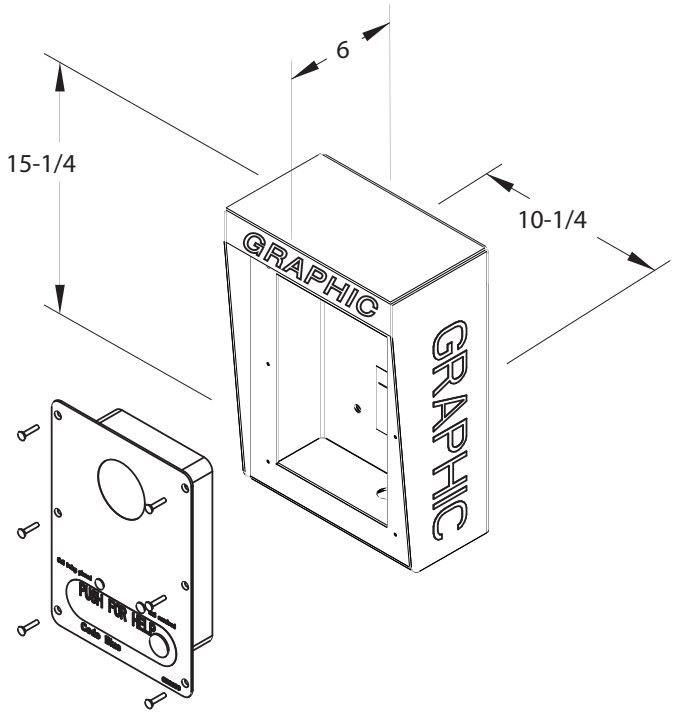
2.1 **Mark the mounting holes** – In order to comply with the Americans with Disabilities Act (ADA) of 1990, the speakerphone button(s) should be positioned between 34 and 48 inches from grade level (Consult an ADA specialist in your area to verify local and federal guidelines).

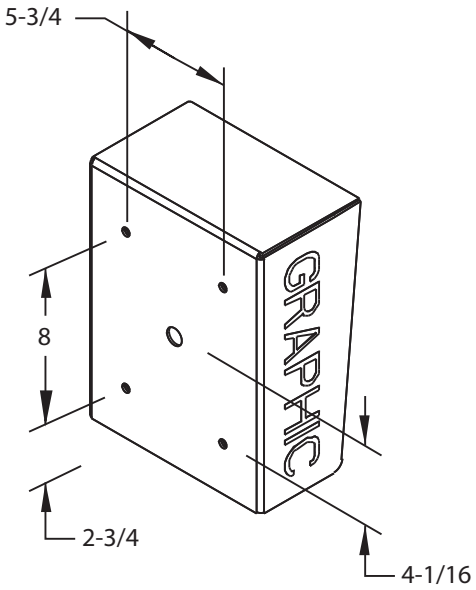
2.2 Drill all marked holes.

2.3 **Secure the housing to the wall** – Four anchors of appropriate size and type should be used to securely fasten the housing to the wall or pole mount.

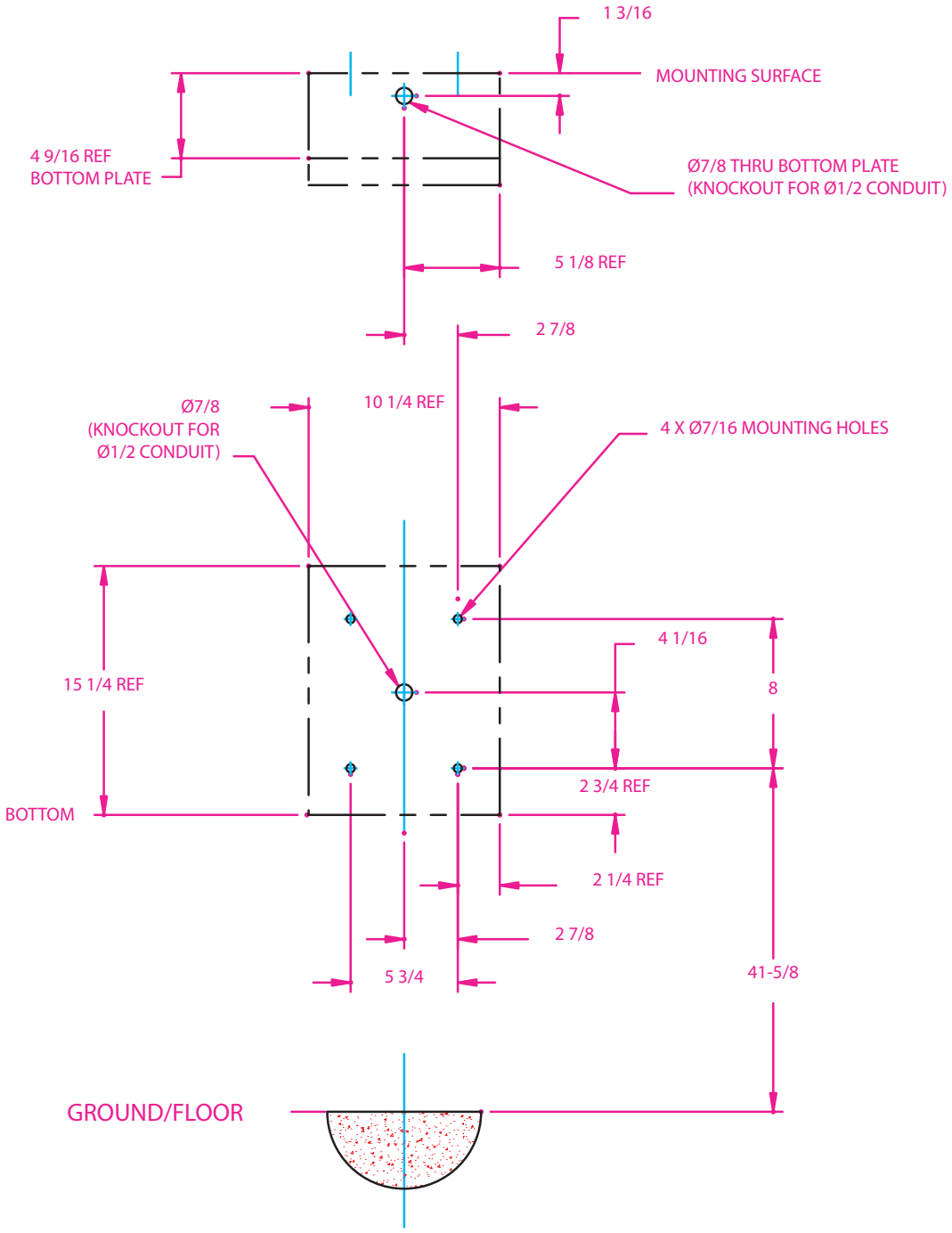
IMPORTANT: *If wiring is coming in from the back, ensure that the conduit is aligned at this time.*

2.4 Connect electrical and communications wiring. Follow all federal and local codes that apply.





See diagrams next page



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

- 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.

15 CB 4-u Installation Instructions

1.0 PRE-INSTALLATION

1.1 **Electrical preparation** – The unit may have supply wires run from either (a) behind the unit through the wall, or (b) below the unit using an external conduit through the bottom of the unit's back plate. Holes in the bottom of the unit have been provided for this purpose. Holes in the back of the unit must be provided by others.

2.0 INSTALLATION PROCEDURES

2.1 **Mark the mounting holes** – 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.)

2.2 Drill all marked holes.

2.3 **Secure the housing to the wall** – Four anchors of appropriate size and type should be used to securely fasten the housing to the wall or pole mount.

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

2.4 Connect electrical and communications wiring (see wiring instructions). Follow all national and local codes that apply.

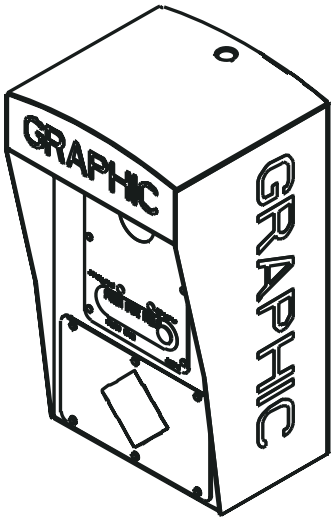
3.0 WIRING (Excludes NightCharge® or solar options)

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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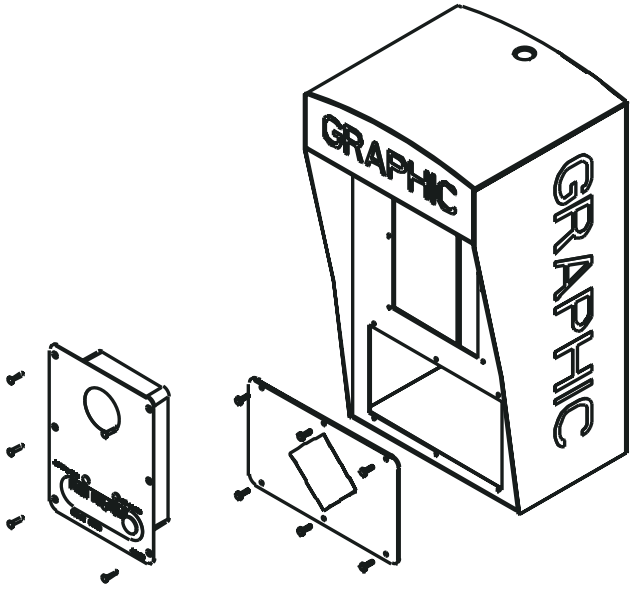
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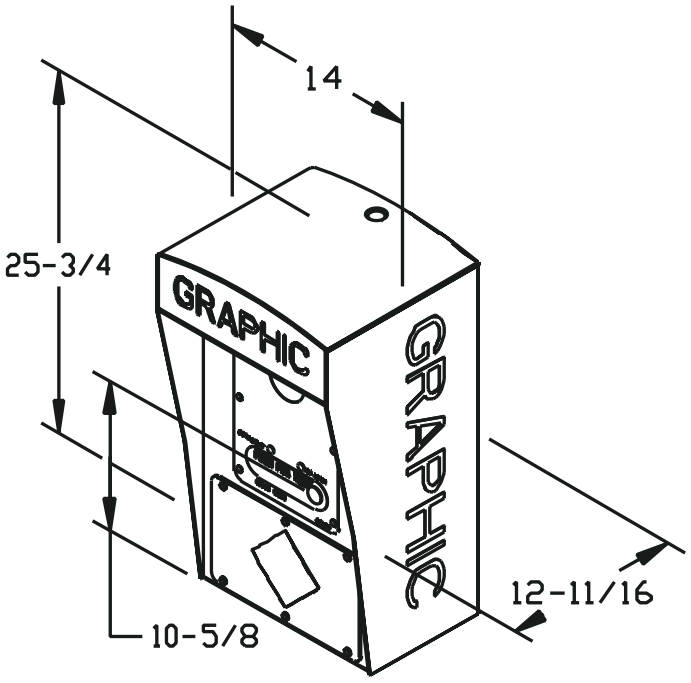
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25-3/4
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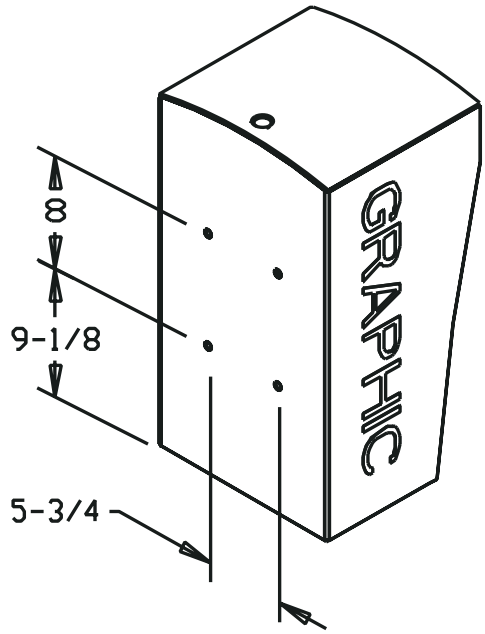
12-11/16
10-5/8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9-1/8
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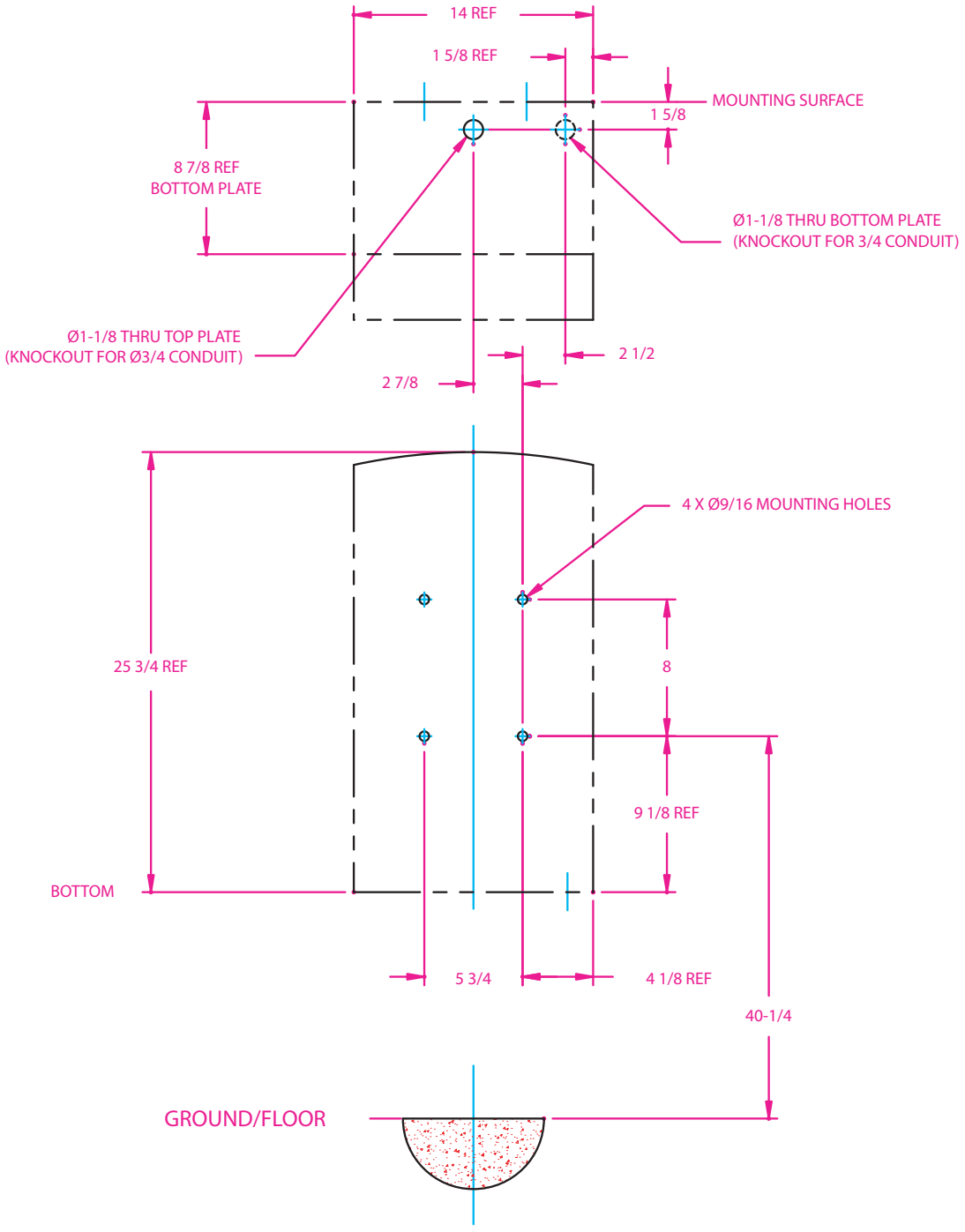
5-3/4



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

- 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.

16 CB 4 Series Remote Mount Beacon/Strobe Installation

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

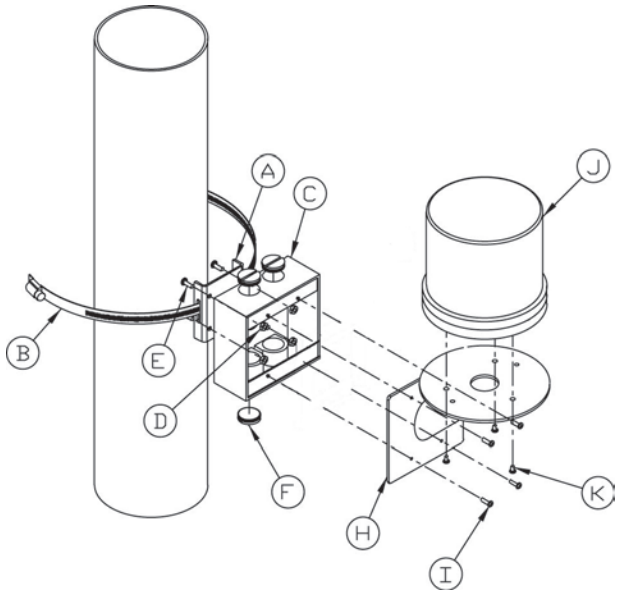
3.1 Using the three M4 X 8 screws enclosed (K), fasten the strobe (J) to the round portion of the strobe bracket.

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.

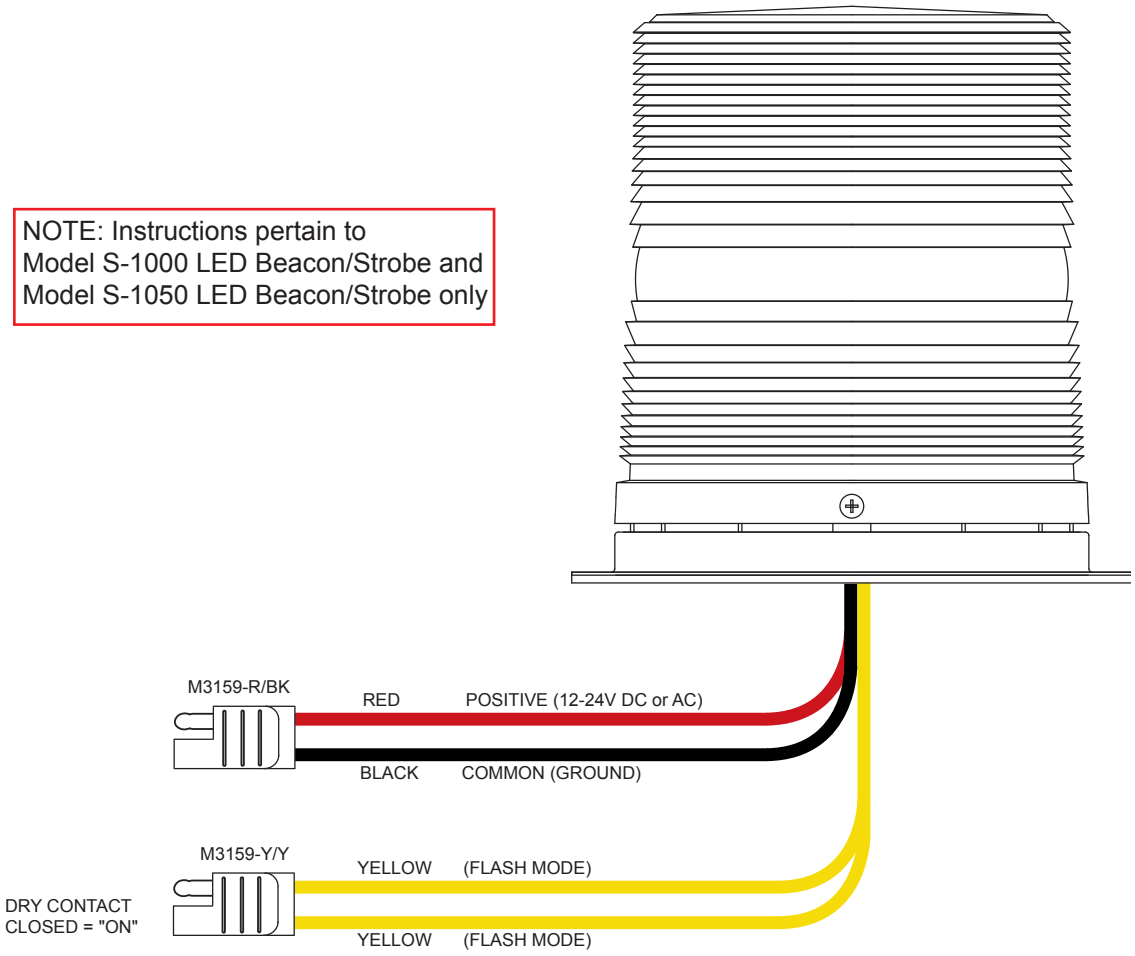


A - pole-bracket
B - banding
C - J-box
D - pole-bracket mount nut (4 each)
E - pole-bracket mount screw (4 each)
F - conduit plug
H - strobe-bracket
I - 6-32 X ½ screws (4 each)
J - strobe light
K - M4 X 8 screws (3 each) (Low voltage)
K - 10-24 X ¾ screws (2 each) (High voltage)

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.

17 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 PoE Installation Instructions

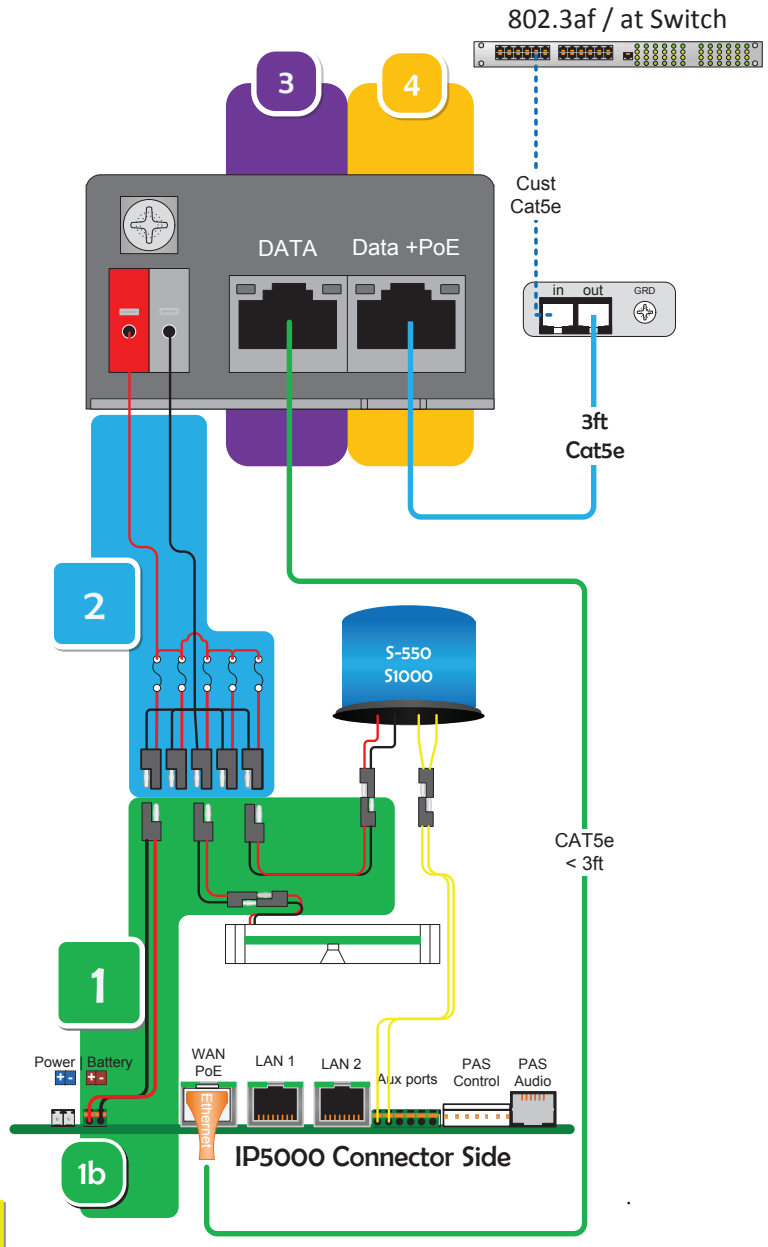
1 First, Electrical connection: All 3 Code Blue device's should to be connected to the 5 place manifold

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.

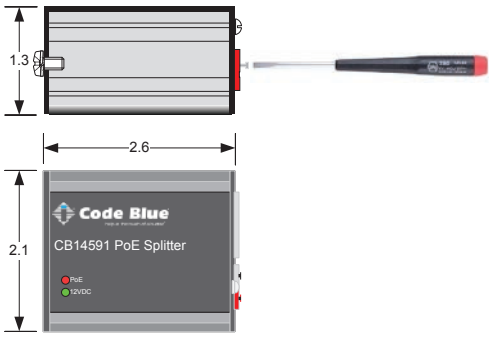
4 Fourth Step: Plug in the Ethernet PoE Cat 5e Cable to Data+PoE Input jack on the Splitters. Upon PoE Negotiation with the PoE switch port, power will be granted to the Splitter, and the indicator along with the device attached will turn on.



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.



19 CB 4 Series Pole Mount Installation Instructions

1.0 THREAD MOUNTING STRAPS THROUGH SLOTS – Use outside slots for larger poles and inside slots for smaller poles.

2.0 HOLD BRACKET TO POLE – Set the height of the bracket **(C)** so that the speakerphone push button(s) on the unit will be at desired height (please check with local codes for ADA compliance).

3.0 BAND THE BRACKET TO THE POLE AT DESIRED HEIGHT

3.1 To eliminate waste, pull band **(A)** from carton as needed. With ears of buckle **(B)** away from operator, slide the buckle on the banding. Lace banding around the object being clamped and again through buckle.

3.2 Bend end of band under buckle.

3.3 Slide band in tool nose slot. Press down on gripper with thumb and tension clamp by turning the handle. Maximum tension has been reached when the band stops moving through the buckle.

3.4 When maximum tension has been reached, roll tool over buckle, at same time reversing handle carefully at approximately three-quarters turn to avoid breakage. The band that is released will be used in the bend and therefore there is no loss of tension.

3.5 Lift cutter lever and the band will be cut to correct length.While holding the stub of the band with your thumb, hammer flat over bridge of buckle.

3.6 Complete application by hammering the buckle ears over the stub.

4.0 ATTACH ENCLOSURE TO BRACKET

4.1 Place a rubber washer **(D)** on each of the four studs.

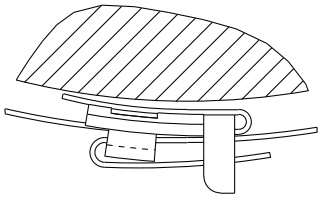
4.2 Align and place the back plate of the unit over the four studs.

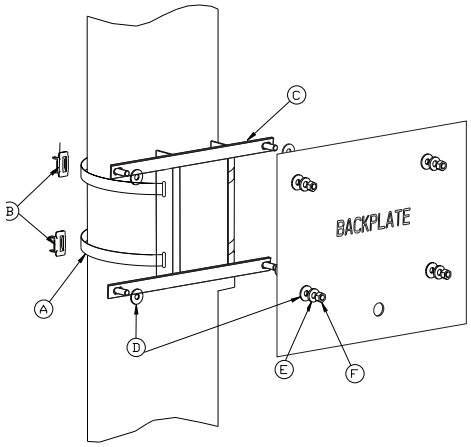
4.3 Place a second set of rubber washers on each of the four studs (inside the unit).

4.4 Place a steel washer **(E)** on each of the four studs.

4.5 Turn a nut **(F)** on each of the four studs.

Banding tool sold separately on the Parts Order Form, part #41441.





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

20 CB 4-u Solar Installation Instructions

1.0 INSTALL THE SOLAR PANEL

1.1 **Attach the pole mount bracket** – See pole mount installation instructions. The bracket must point due south.

1.2 **Attach the solar panel** – The solar panel assembly mounts to the pole mount bracket using a stainless steel sheet metal solar bracket. Four nuts and washers shall attach this solar bracket to the pole mount bracket and an additional set of four nuts washers and bolts will attach the solar panel assembly to this solar mount bracket.

1.3 **Wiring** – The wires from the CB 4-u unit should be run through conduit to the black J-box on the backside of the solar panel assembly. The red wire must be connected to a screw marked (+) and the black wire to a screw marked (-).

2.0 INSTALL THE BATTERIES

2.1 **Place the batteries into the CB 4-u unit** – Place the batteries into the unit so each battery rests directly on the bottom of the enclosure.

2.2 **Connect the wires** – First, connect the red wire to the positive (+) lugs on the batteries, then connect the black wire to the negative (-) lugs.

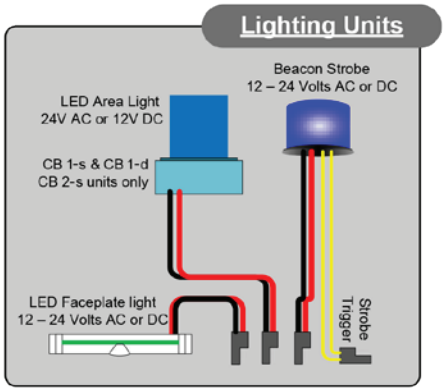
WARNING: Reversing the battery wires (reversed polarity) will cause damage to the charge controller and void the warranty.

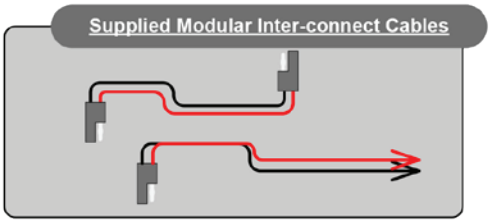
3.0 WAIT

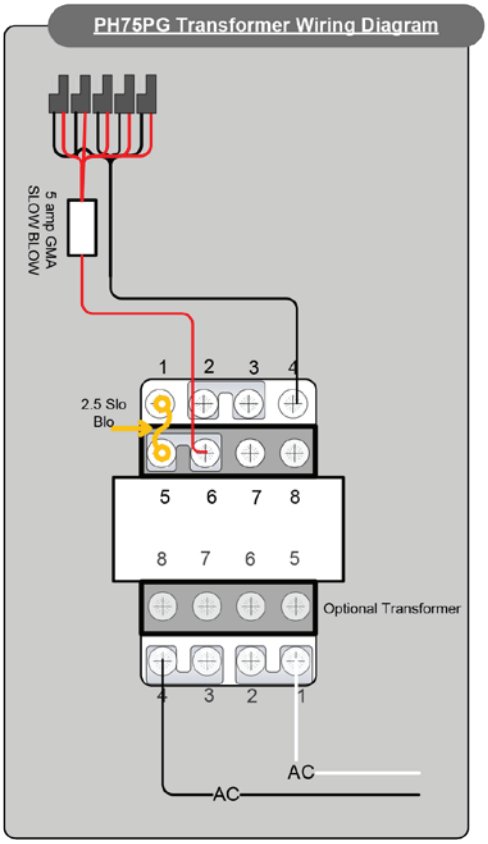
3.1 **Charging the batteries** – The unit will not become completely active until the solar voltage reaches 14 volts. The time to reach this voltage level will be dependent upon the initial charged state of the batteries and solar power available after the unit is installed.

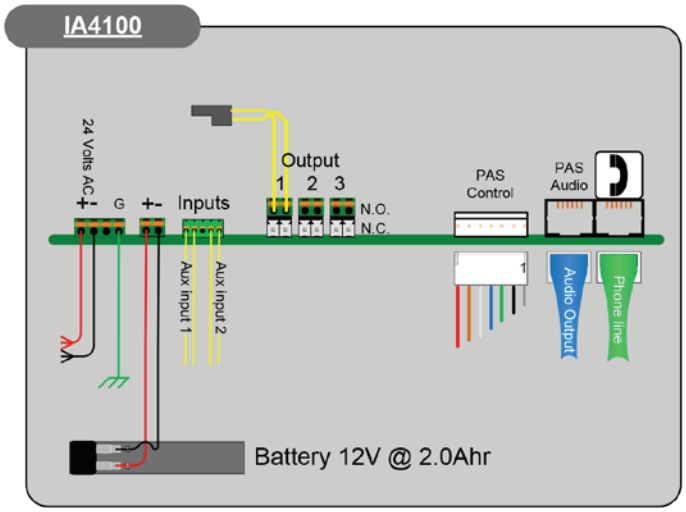
All wiring must be installed and connected by experienced and certified personnel to meet local and national electrical codes, and will include a service disconnect.

21 CB 4 Series Standard Wiring









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 WM-180 Wall Mount 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.

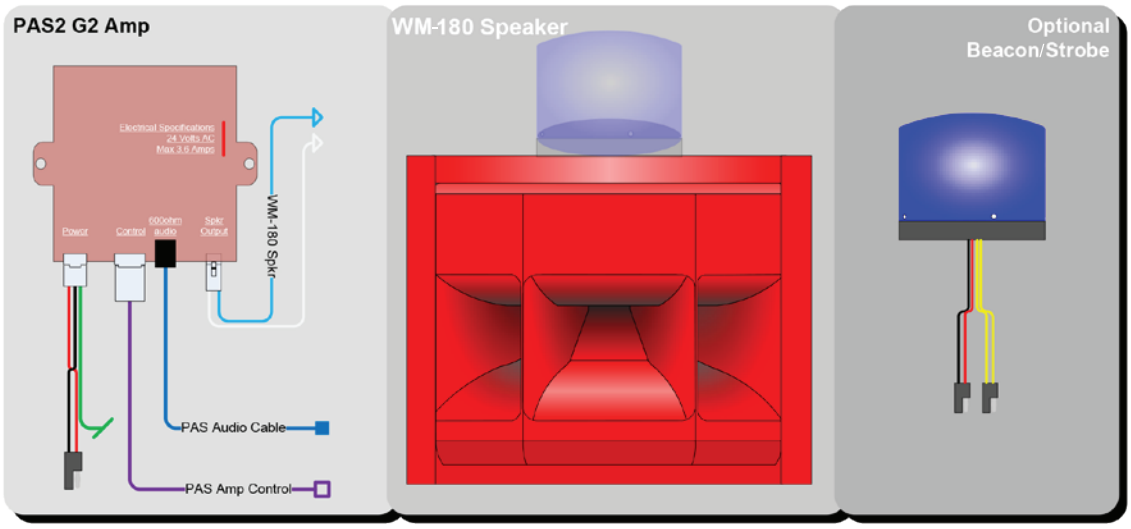
Reference **IA4100 Admin and User Guide** for programming of analog controller board.

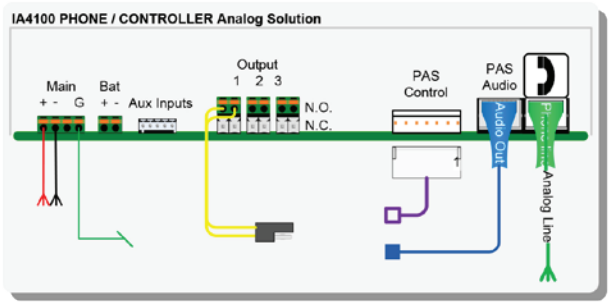
Reference **IP5000 Admin and User Guide** for programming of IP controller board.

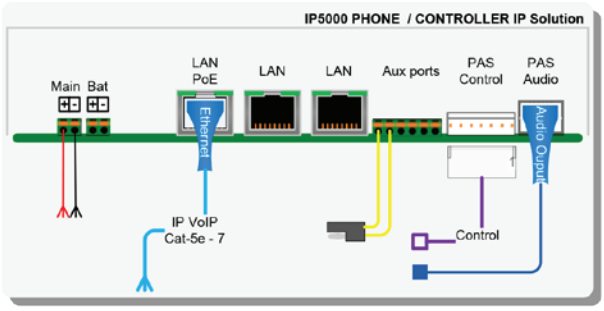
Code Blue Guides are located at **www.codeblue.com > support > downloads.**

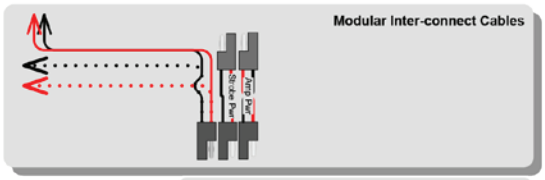
See diagrams next page

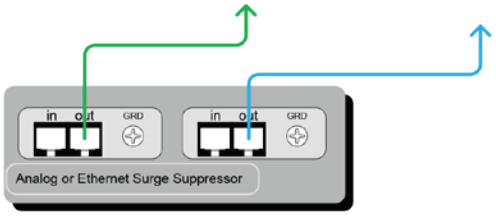
WM-180 w/Controller / Speaker Phone, Wiring Diagram

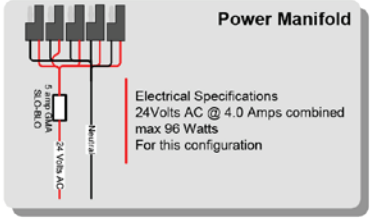




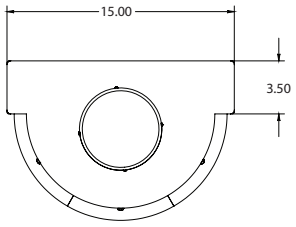


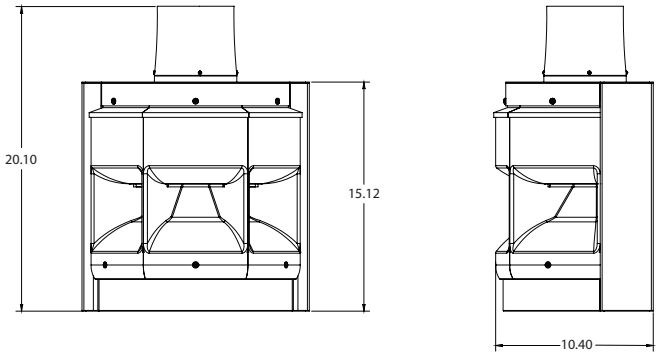


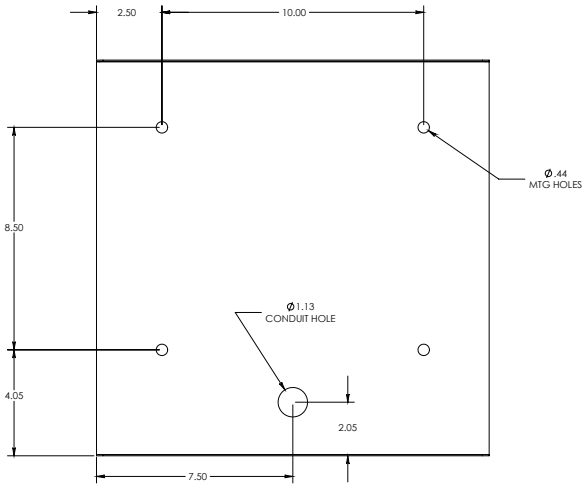




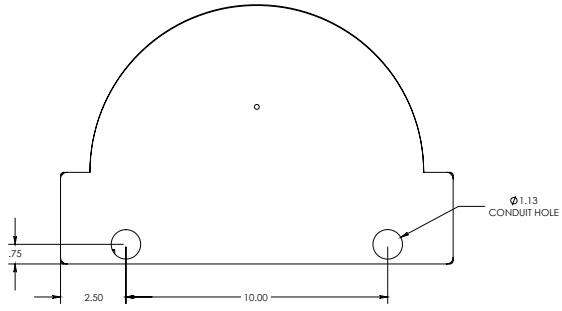
Product wiring diagram shown reasonably represents current offering and is intended to assist in component identification and service. Earlier product production may have different components and wiring connections. Reference the model and serial number from the unit ID tag and contact manufacturer to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







BACK VIEW



BOTTOM VIEW

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

23 WM-180 Pole Mount Installation Instructions

1.0 THREAD MOUNTING STRAPS THROUGH SLOTS

2.0 HOLD BRACKET TO POLE – Set the bracket at the desired height for the Public Address Speakers 180°.

3.0 BAND THE BRACKET TO THE POLE AT DESIRED HEIGHT

3.1 To eliminate waste, pull band **(A)** from carton as needed. With ears of buckle **(B)** away from operator, slide the buckle on the banding. Lace banding around the object being clamped and again through buckle.

3.2 Bend end of band under buckle.

3.3 Slide band in banding tool nose slot. Press down on gripper with thumb and tension clamp by turning the handle. Maximum tension has been reached when the band stops moving through the buckle.

3.4 When maximum tension has been reached, roll tool over buckle, at same time reversing handle carefully at approximately three-quarters turn to avoid breakage. The band that is released will be used in the bend and therefore there is no loss of tension.

3.5 Lift cutter lever and the band will be cut to correct length.While holding the stub of the band with your thumb, hammer flat over bridge of buckle.

3.6 Complete application by hammering the buckle ears over the stub.

4.0 ATTACH ENCLOSURE TO BRACKET

4.1 Place a rubber washer **(D)** on each of the four studs.

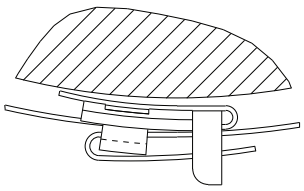
4.2 Align and place the back plate of the unit over the four studs.

4.3 Place a second set of rubber washers on each of the four studs (inside the unit).

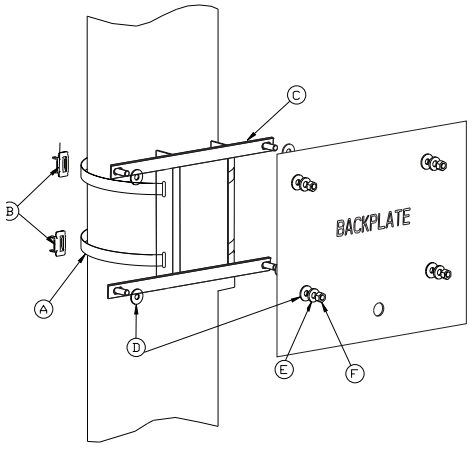
4.4 Place a steel washer **(E)** on each of the four studs.

4.5 Turn a nut **(F)** on each of the four studs.

Banding tool sold separately on the Parts Order Form, part #41441.

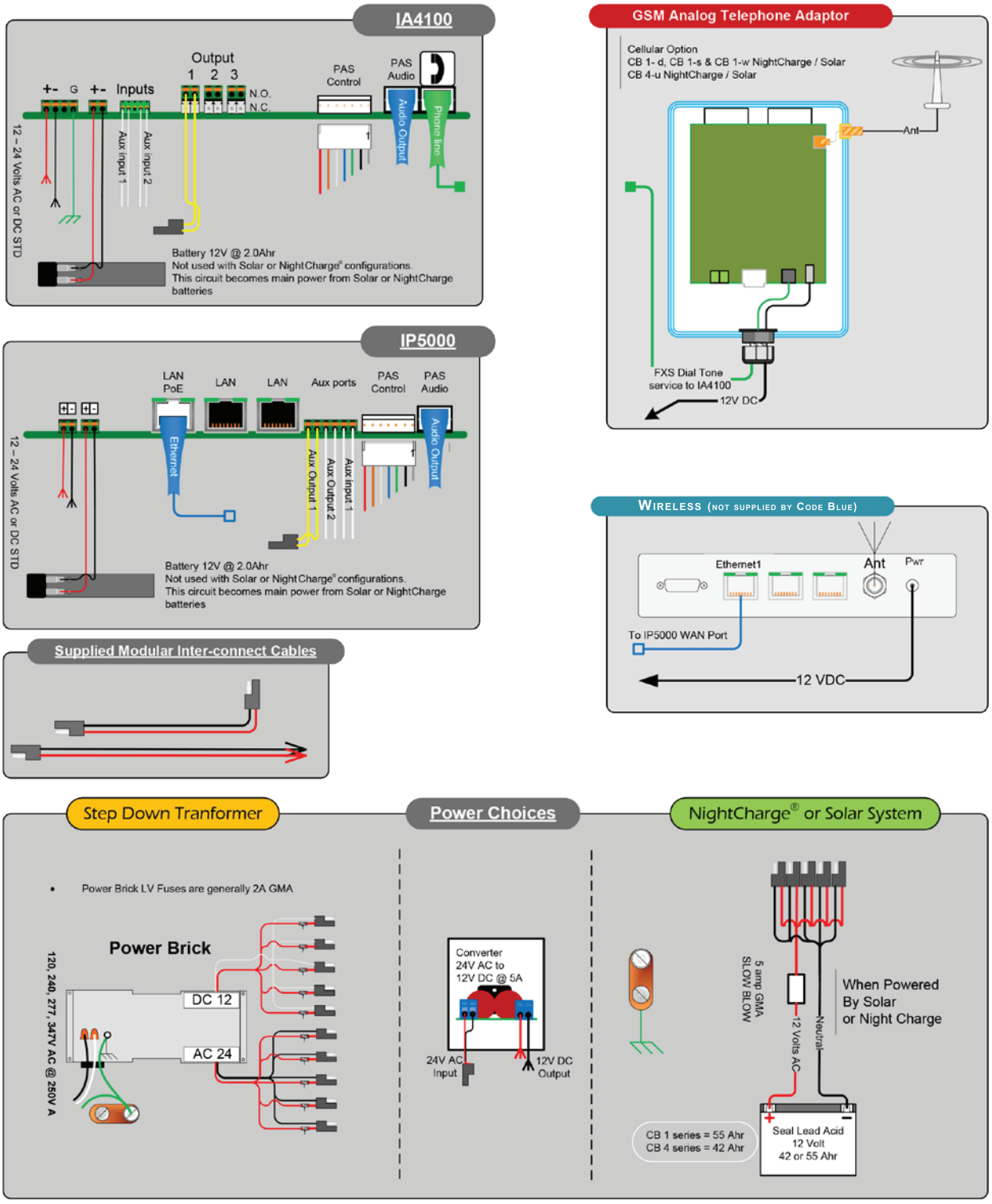


Bird Eye View (banding)



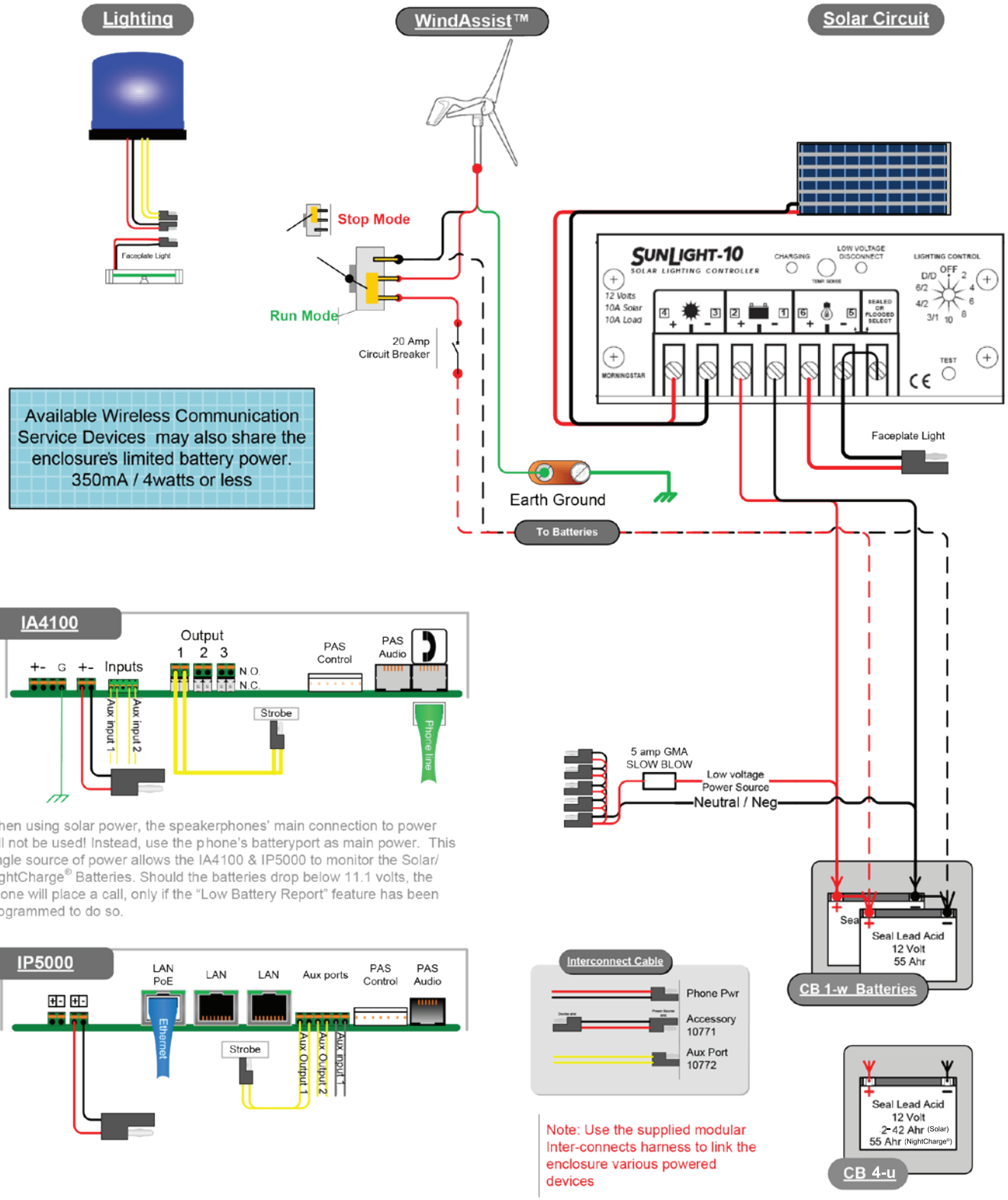
Specifications subject to change without notice or obligation on the part of the manufacturer.

24 GSM Wireless Wiring Diagram (CB 4-u only)



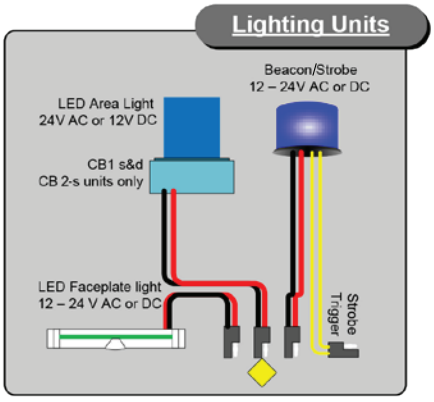
Product wiring diagram shown reasonably represents current offering and is intended to assist in component identification and service. Earlier product production may have different components and wiring connections. Reference the model and serial number from the unit ID tag and contact manufacturer to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

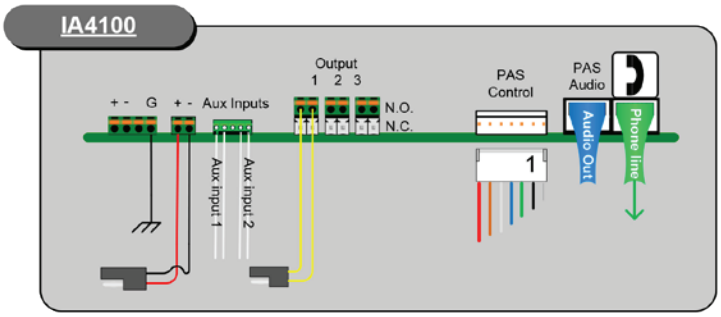
25 Solar WindAssist™ Wiring Diagram (CB 4-u only)



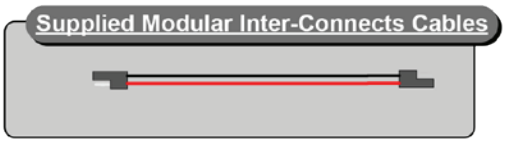
Product wiring diagram shown reasonably represents current offering and is intended to assist in component identification and service. Earlier product production may have different components and wiring connections. Reference the model and serial number from the unit ID tag and contact manufacturer to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

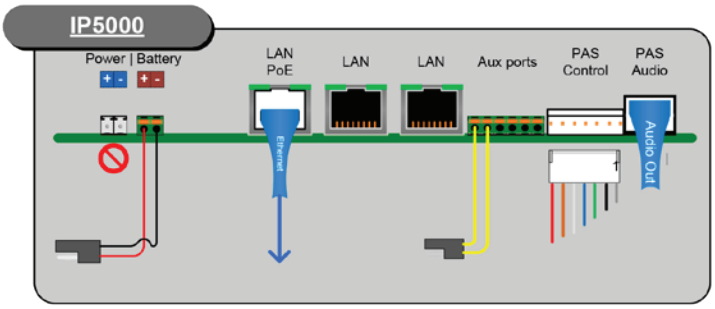
26 NightCharge® Wiring Diagram (CB 4-u only)

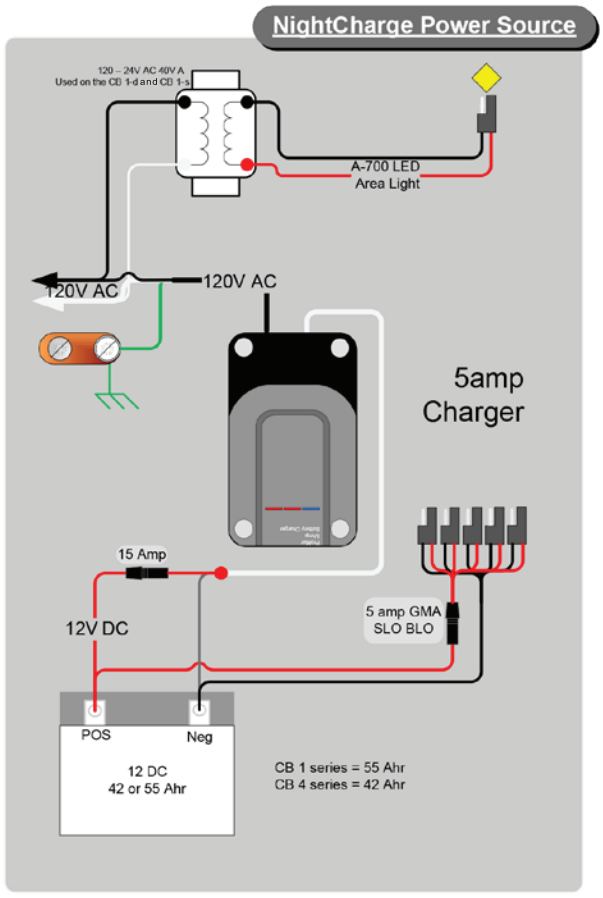


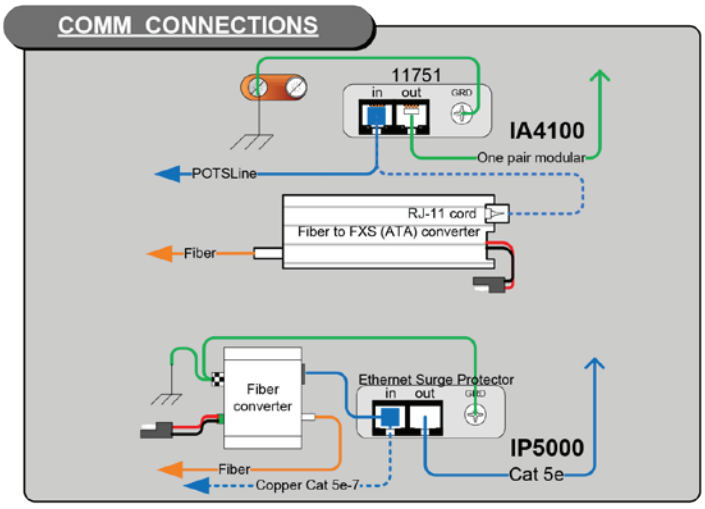


Yellow Diamond Key indicates
24V AC Area Light Power
Connection









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.

27 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	★★★★★	★★★★	★★★	★	

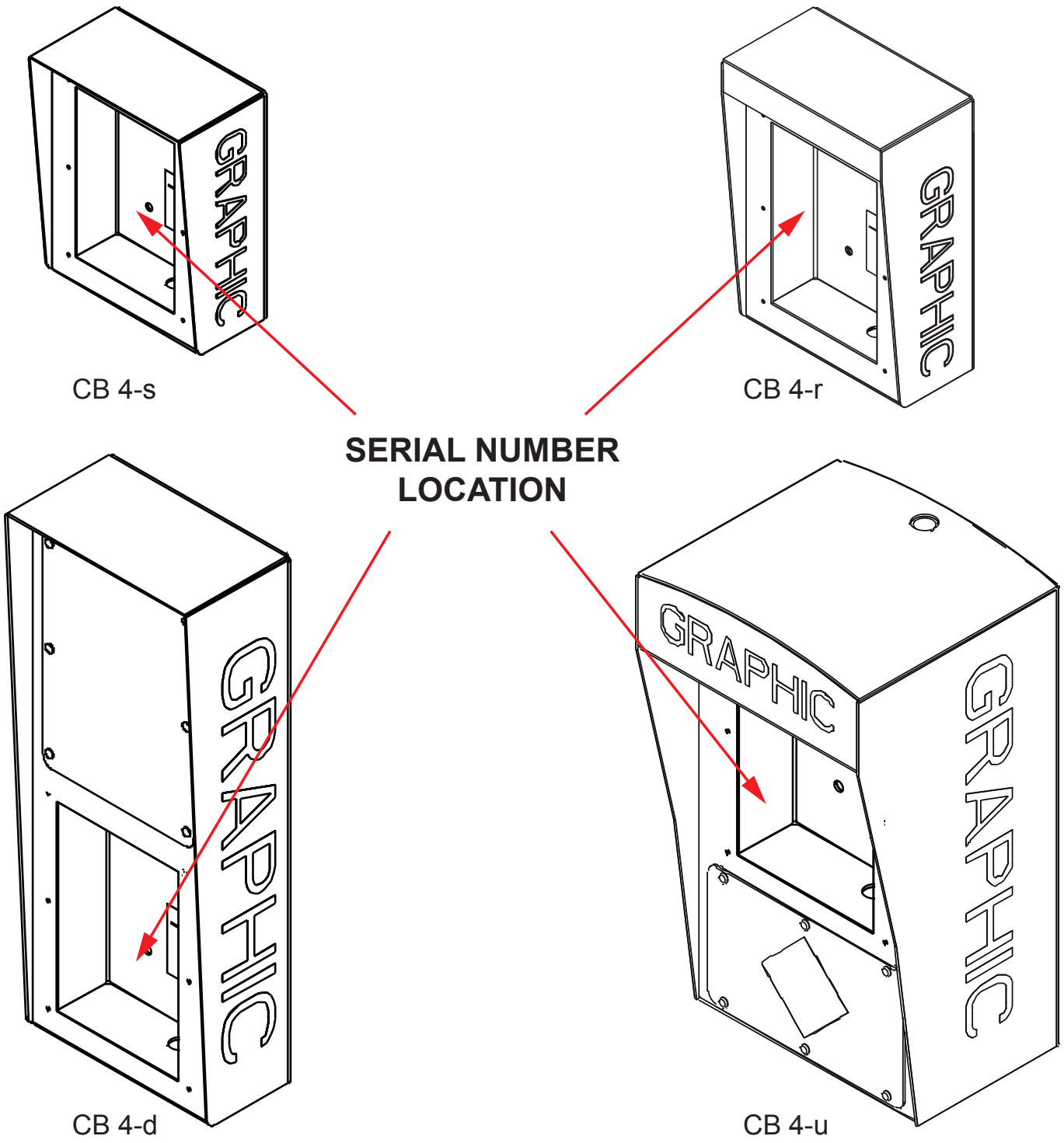
See scheduled tasks under Biannually for suggested paint sealants or stainless steel cleaners.

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.

28 Locating Unit Serial Numbers



29 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**.

30 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**.