CB 2 Series

CB 2-a
CB 2-e
CB 2-e with AED Housing
CB 2-e with Public Address
CB 2-s

Installation | Configuration | Operation | Troubleshooting

Administrator Guide

Code Blue

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.

NOTICE TO USERS

Table of Contents

(NOTE: Phone programming instructions can be found in the IP5000 and IA4100 Guides.)

2 Introduction

The 2 Series Wall Mount Help Points®

This popular line is a good fit for any indoor or outdoor application, including parking facilities. Our unmistakable craftsmanship makes our Help Points® the most rugged on the market, withstanding the punishment of natural and man-made disasters. All **2 Series** units have a rugged steel construction, shatterproof Lexan Lens, industrial engineering grade reflective graphics and weather, UV and graffiti resistant paint, and are illuminated by a high-powered, 270 lumens/92 candela LED blue beacon/strobe. Other options include:

- IP and analog phones

- Long-life LED area light

- Low power consumption LED faceplate light

- Camera and card reader openings

- Temperature controlled automated external defibrillator (AED) housing

- Public address speakers

CB 2-a   CB 2-e   CB 2-e with Public Address   CB 2-e with AED Housing   CB 2-s

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.

Tools Required

CB 2 Series

1. Drill and security bit for removing and inserting security screws on phone and access plate

2. Phillips head screwdriver and flat head screwdriver

3. 3/8 socket set to mount unit onto wall

4 Spare Parts

CB 2-a

Part	Part Number
S-2000 LED Strobe Light	41162
Analog Phone Line Surge Suppressor	41471
IP Phone Line Surge Suppressor	41421
Manifold R/B 5-way	40101
120-277 Transformer	41163
PoE Switch	41574
Button Head Screws	41500
HID Lens	41164

CB 2-e

Part	Part Number
LED Strobe Light	40159
Button Head Security Screws (3-pack)	41500
Analog Phone Line Surge Suppressor	41471
IP Phone Line Surge Suppressor	41421
Manifold R/B 5-way	40101
Power Brick 120V, 240V, 277V & 347V	40104

CB 2-e with Public Address

Part	Part Number
LED Strobe Light	40159
Button Head Security Screws (3-pack)	41500
Analog Phone Line Surge Suppressor	41471
IP Phone Line Surge Suppressor	41421
Manifold R/B 5-way	40101
PAS AMP Kit 24V	40009
Power Brick 120V, 240V, 277V & 347V	40104
PAS Speaker	40080

CB 2-e with AED Housing

Part	Part Number
LED Strobe Light	40159
Button Head Security Screws (3-pack)	41500
Analog Phone Line Surge Suppressor	41471
IP Phone Line Surge Suppressor	41421
Manifold R/B 5-way	40101
Power Brick 120V, 240V, 277V & 347V	40104
AED Housing Door Release Mechanism	41104
AED Housing Heater	41105
AED Housing Thermostat	41106
AED Housing Door Controller	41107
AED Housing Retrofit kit	40012

CB 2-s

Part	Part Number
LED Strobe Light	40159
Button Head Security Screws (3-pack)	41500
Analog Phone Line Surge Suppressor	41471
IP Phone Line Surge Suppressor	41421
Manifold R/B 5-way	40101
Power Brick 120V, 240V, 277V & 347V	40104
LED Area Light	41539

CB 2 Series Additional Options

Quantity	Part Description
1	Document packet (Installation and Setup)
1	Hardware packet
4	Lag screw sleeves
4	Metal washers
4	Rubber washers
1	Security bit
1	Enclosure (CB 2-e, CB 2-e with PAS, CB 2-e with AED or CB 2-s)
2	10/24 Counter sunk security screws – CB 2-s only
2	Key fobs – CB 2-e with AED only

5 Power Requirements

(The following power requirements include the 2 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-s 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 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

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.
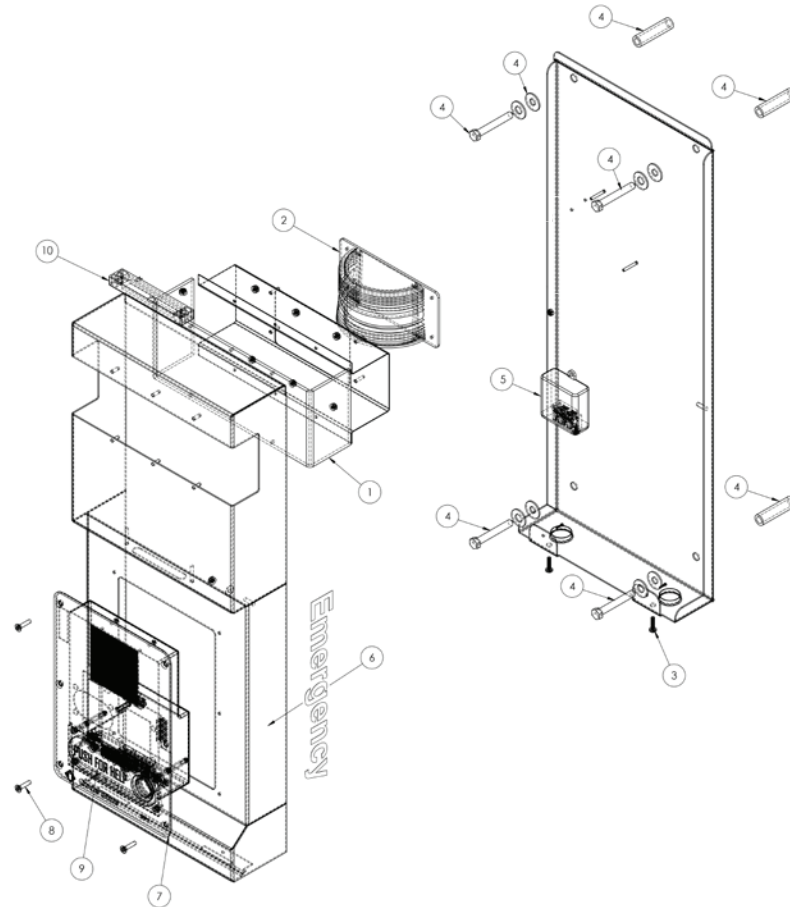
Blue Alert® EMS

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.
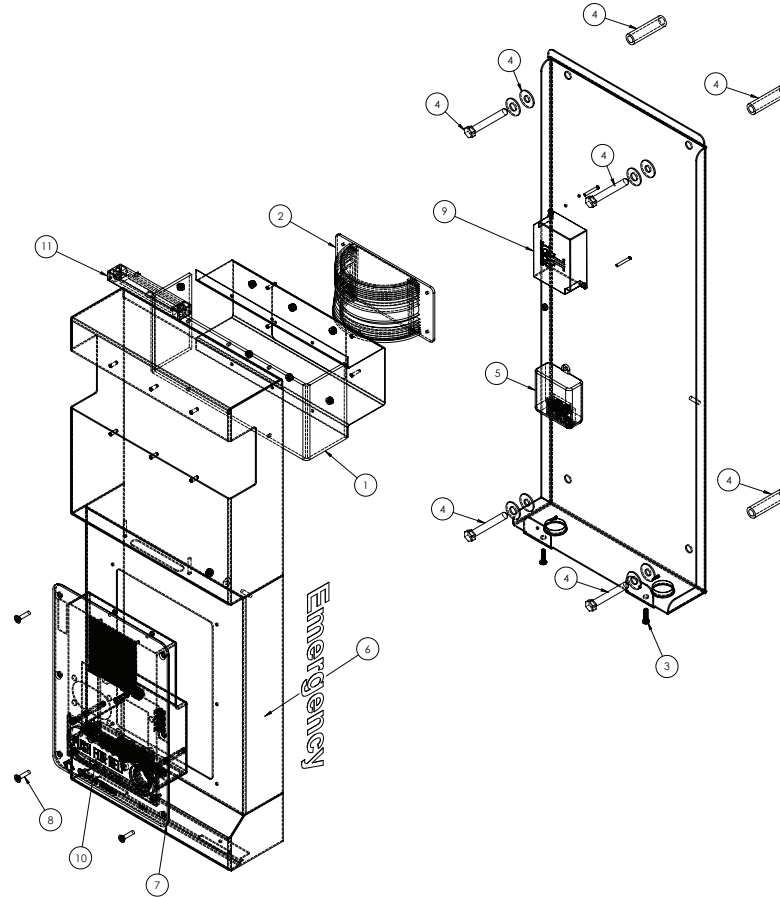
7 CB 2-a Low Voltage Exploded View

BALL #	PART #	DESCRIPTION
1	41425	HID Lens
2	41162	S-2000 LED Beacon Strobe
3	41500	Button head Security Screw (3 pk)
4	40102	Wall Anchor Kit
5	41471	Analog Surge Suppressor
5	41421	IP Surge Suppressor
6	CALL	Standard / Custom Graphic
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
7	50101	Single Button IP5000 VoIP Phone – PUSH FOR HELP

BALL #	PART #	DESCRIPTION
7	50102	Double Button IP5000 VoIP Phone – PUSH FOR HELP
7	50103	Keypad IP5000 VoIP Phone – PUSH FOR HELP
7	50104	Single Button IP5000 VoIP Phone – EMERGENCY
7	50105	Double Button IP5000 VoIP Phone – EMERGENCY
7	50106	Keypad IP5000 VoIP Phone – EMERGENCY
7	50107	Single Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
7	50108	Double Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
7	50109	Keypad IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
8	41544	Faceplate Security Screw 10x24 (6 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 VoIP Phone – PUSH FOR HELP
9	40405	Bezel Assembly IP5000 VoIP Phone – EMERGENCY
9	40406	Bezel Assembly IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
10	40196	Faceplate Light

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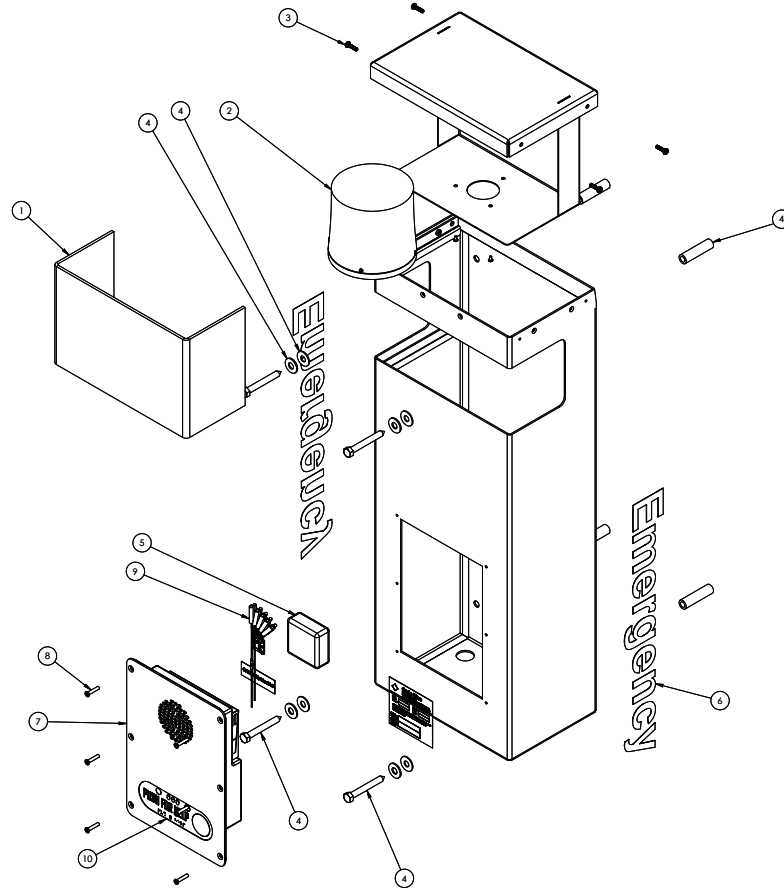
8 CB 2-a High Voltage Exploded View

BALL #	PART #	DESCRIPTION
1	41425	HID Lens
2	41162	S-2000 LED Beacon Strobe
3	41500	Button head Security Screw (3 pk)
4	40102	Wall Anchor Kit
5	41471	Analog Surge Suppressor
5	41421	IP Surge Suppressor
6	CALL	Standard / Custom Graphic
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
7	50101	Single Button IP5000 VoIP Phone – PUSH FOR HELP

BALL #	PART #	DESCRIPTION
7	50102	Double Button IP5000 VoIP Phone – PUSH FOR HELP
7	50103	Keypad IP5000 VoIP Phone – PUSH FOR HELP
7	50104	Single Button IP5000 VoIP Phone – EMERGENCY
7	50105	Double Button IP5000 VoIP Phone – EMERGENCY
7	50106	Keypad IP5000 VoIP Phone – EMERGENCY
7	50107	Single Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
7	50108	Double Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
7	50109	Keypad IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
8	41544	Faceplate Security Screw 10x24 (6 pk)
9	41163	40VA 120-277V AC Transformer
10	40357	Bezel Assembly IA4100 Analog Phone – PUSH FOR HELP
10	40407	Bezel Assembly IA4100 Analog Phone – EMERGENCY
10	40408	Bezel Assembly IA4100 Analog Phone – EMERGENCY/EMERGENCIA
10	40313	Bezel Assembly IP5000 VoIP Phone – PUSH FOR HELP
10	40405	Bezel Assembly IP5000 VoIP Phone – EMERGENCY
10	40406	Bezel Assembly IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
11	40196	Faceplate Light

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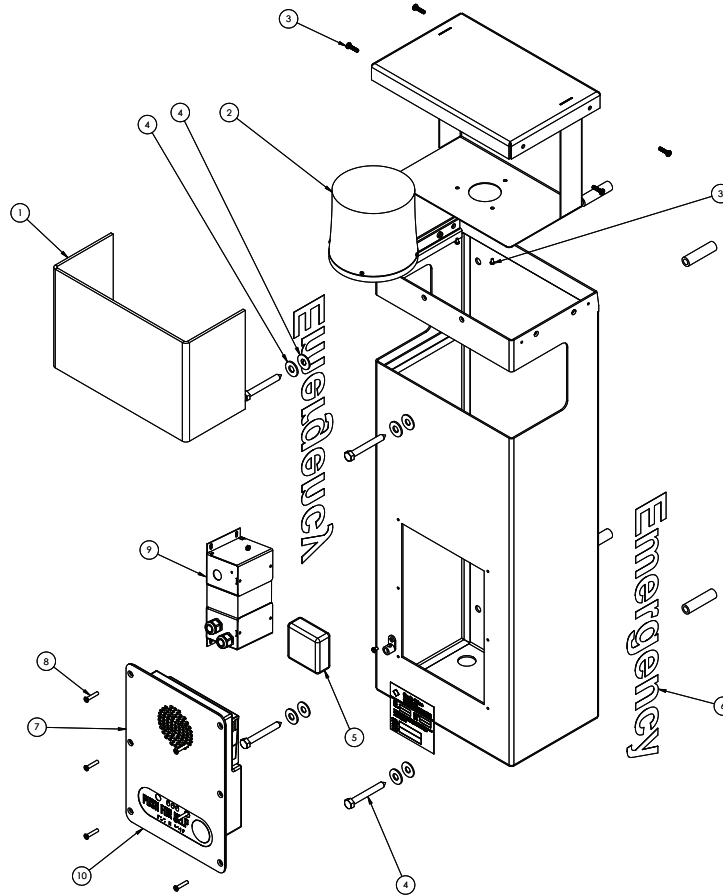
9 CB 2-e Low Voltage Exploded View

BALL #	PART #	DESCRIPTION
1	41425	HID Lens
2	40159	LED Beacon Strobe
3	41500	Button head Security Screw (3 pk)
4	40102	Wall Anchor Kit
5	41471	Analog Surge Suppressor
5	41421	IP Surge Suppressor
6	CALL	Standard / Custom Graphic
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
7	50101	Single Button IP5000 VoIP Phone – PUSH FOR HELP

BALL #	PART #	DESCRIPTION
7	50102	Double Button IP5000 VoIP Phone – PUSH FOR HELP
7	50103	Keypad IP5000 VoIP Phone – PUSH FOR HELP
7	50104	Single Button IP5000 VoIP Phone – EMERGENCY
7	50105	Double Button IP5000 VoIP Phone – EMERGENCY
7	50106	Keypad IP5000 VoIP Phone – EMERGENCY
7	50107	Single Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
7	50108	Double Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
7	50109	Keypad IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
8	41544	Faceplate Security Screw 10x24 (6 pk)
9	40101	Manifold R/B 5-way
10	40357	Bezel Assembly IA4100 Analog Phone – PUSH FOR HELP
10	40407	Bezel Assembly IA4100 Analog Phone – EMERGENCY
10	40408	Bezel Assembly IA4100 Analog Phone – EMERGENCY/EMERGENCIA
10	40313	Bezel Assembly IP5000 VoIP Phone – PUSH FOR HELP
10	40405	Bezel Assembly IP5000 VoIP Phone – EMERGENCY
10	40406	Bezel Assembly IP5000 VoIP Phone – EMERGENCY/EMERGENCIA

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10 CB 2-e High Voltage Exploded View

BALL #	PART #	DESCRIPTION
1	41425	HID Lens
2	40159	LED Beacon Strobe
3	41500	Button Head Security Screws (3 pk)
4	40102	Wall Anchor Kit
5	41471	Analog Surge Suppressor
5	41421	IP Surge Suppressor
6	CALL	Standard Graphic
6	CALL	Custom Graphic
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 VoIP Phone – PUSH FOR HELP
7	50102	Double Button IP5000 VoIP Phone – PUSH FOR HELP
7	50103	Keypad IP5000 VoIP Phone – PUSH FOR HELP
7	50104	Single Button IP5000 VoIP Phone – EMERGENCY
7	50105	Double Button IP5000 VoIP Phone – EMERGENCY
7	50106	Keypad IP5000 VoIP Phone – EMERGENCY
7	50107	Single Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
7	50108	Double Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
7	50109	Keypad IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
8	41544	Faceplate Security Screw 10x24 (6 pk)
9	40104	Power Brick 120V, 240V, 277V, 347V
10	40357	Bezel Assembly IA4100 Analog Phone – PUSH FOR HELP
10	40407	Bezel Assembly IA4100 Analog Phone – EMERGENCY
10	40408	Bezel Assembly IA4100 Analog Phone – EMERGENCY/EMERGENCIA
10	40313	Bezel Assembly IP5000 VoIP Phone – PUSH FOR HELP
10	40405	Bezel Assembly IP5000 VoIP Phone – EMERGENCY
10	40406	Bezel Assembly IP5000 VoIP Phone – EMERGENCY/EMERGENCIA

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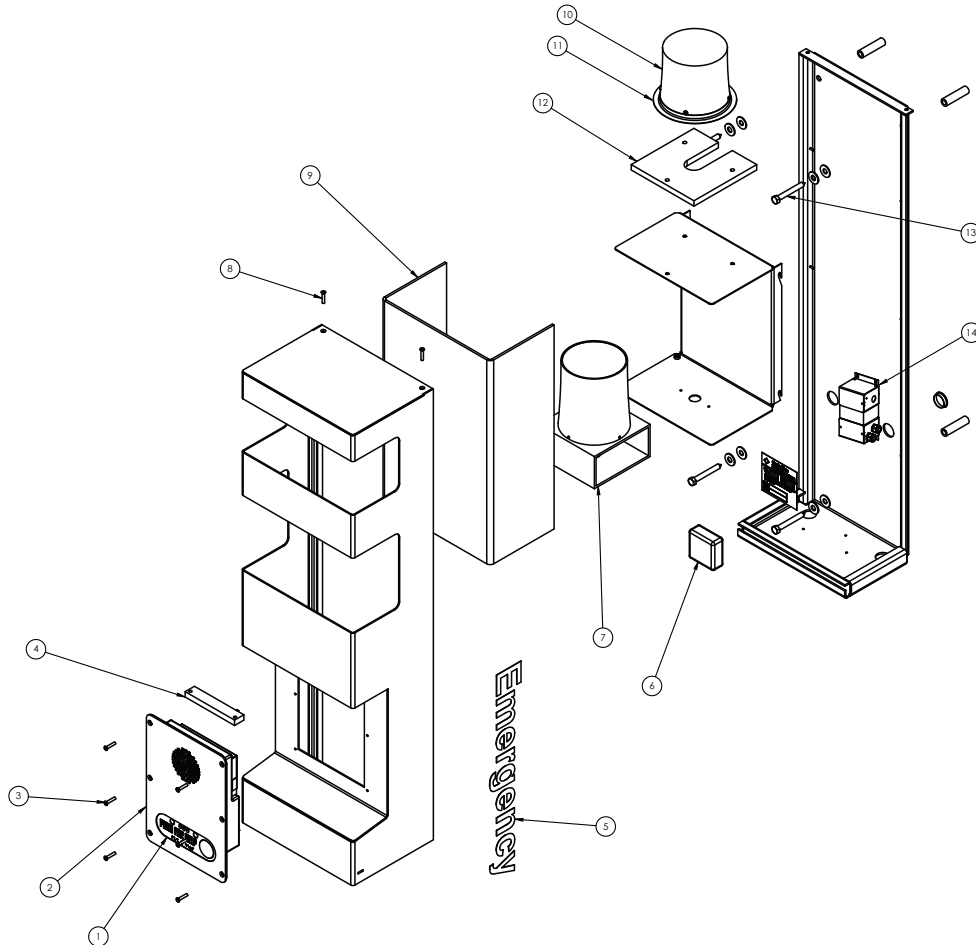
11 CB 2-s Low Voltage Exploded View
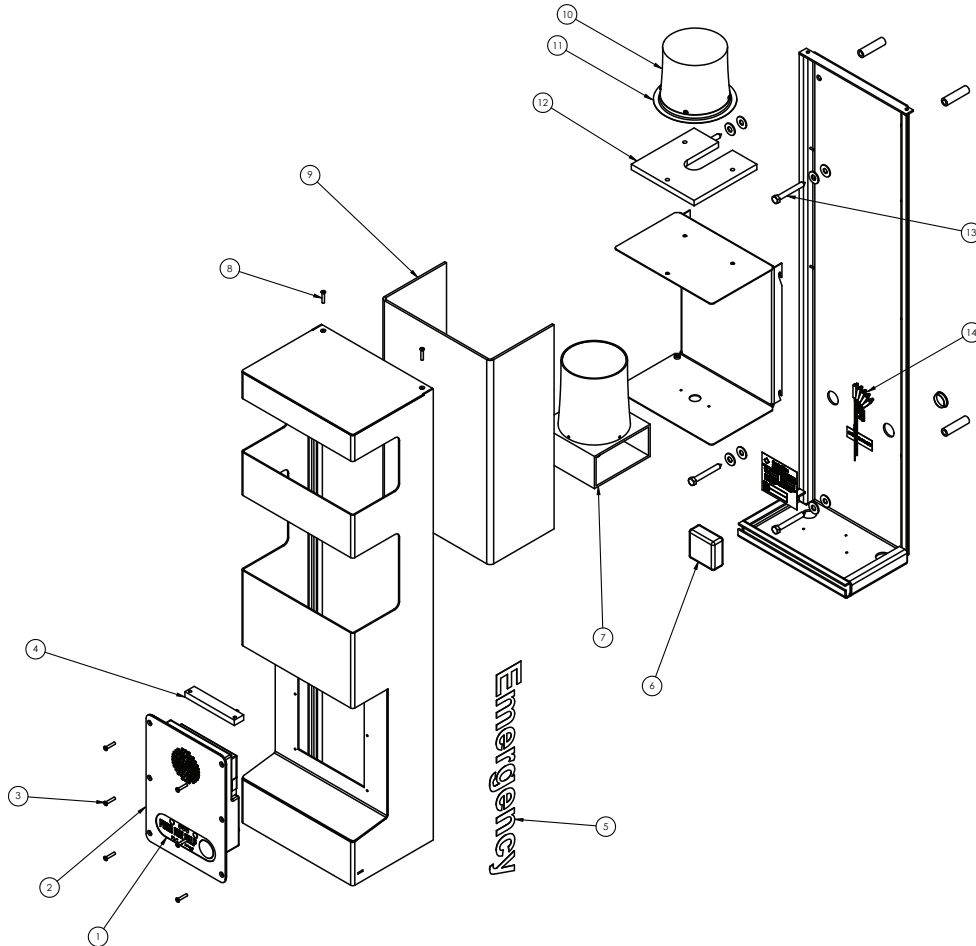
BALL #	PART #	DESCRIPTION
1	40357	Bezel Assembly IA4100 Analog Phone – PUSH FOR HELP
1	40407	Bezel Assembly IA4100 Analog Phone – EMERGENCY
1	40408	Bezel Assembly IA4100 Analog Phone – EMERGENCY/EMERGENCIA
1	40313	Bezel Assembly IP5000 VoIP Phone – PUSH FOR HELP
1	40405	Bezel Assembly IP5000 VoIP Phone – EMERGENCY
1	40406	Bezel Assembly IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
2	50001	Single Button IA4100 Analog Phone – PUSH FOR HELP
2	50002	Double Button IA4100 Analog Phone – PUSH FOR HELP
2	50003	Keypad IA4100 Analog Phone – PUSH FOR HELP
2	50004	Single Button IA4100 Analog Phone – EMERGENCY
2	50005	Double Button IA4100 Analog Phone – EMERGENCY
2	50006	Keypad IA4100 Analog Phone – EMERGENCY
2	50007	Single Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
2	50008	Double Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA
2	50009	Keypad IA4100 Analog Phone – EMERGENCY/EMERGENCIA
2	50101	Single Button IP5000 VoIP Phone – PUSH FOR HELP
2	50102	Double Button IP5000 VoIP Phone – PUSH FOR HELP
2	50103	Keypad IP5000 VoIP Phone – PUSH FOR HELP
2	50104	Single Button IP5000 VoIP Phone – EMERGENCY

BALL #	PART #	DESCRIPTION
2	50105	Double Button IP5000 VoIP Phone – EMERGENCY
2	50106	Keypad IP5000 VoIP Phone – EMERGENCY
2	50107	Single Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
2	50108	Double Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
2	50109	Keypad IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
3	41544	Faceplate Security Screw 10x24 (6 pk)
4	41548	LED Faceplate Light
5	CALL	Standard / Custom Graphic
6	41471	Analog Surge Suppressor
6	41421	IP Surge Suppressor
7	41539	LED Area Light
8	41544	Faceplate Security Screw 10x24 (6 pk)
9	41412	HID Lens
10	40159	LED Blue Beacon Strobe
11	40543	Strobe Disk (3 pk)
12	10084	Clear Strobe Spacer
13	40102	Wall Mount Hardware Kit
14	40101	Manifold R/B 5-way

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BALL #	PART #	DESCRIPTION	BALL #	PART #	DESCRIPTION
1	40357	Bezel Assembly IA4100 Analog Phone – PUSH FOR HELP	2	50105	Double Button IP5000 VoIP Phone – EMERGENCY
1	40407	Bezel Assembly IA4100 Analog Phone – EMERGENCY	2	50106	Keypad IP5000 VoIP Phone – EMERGENCY
1	40408	Bezel Assembly IA4100 Analog Phone – EMERGENCY/EMERGENCIA	2	50107	Single Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
1	40313	Bezel Assembly IP5000 VoIP Phone – PUSH FOR HELP	2	50108	Double Button IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
1	40405	Bezel Assembly IP5000 VoIP Phone – EMERGENCY	2	50109	Keypad IP5000 VoIP Phone – EMERGENCY/EMERGENCIA
1	40406	Bezel Assembly IP5000 VoIP Phone – EMERGENCY/EMERGENCIA	3	41544	Faceplate Security Screw 10x24 (6 pk)
2	50001	Single Button IA4100 Analog Phone – PUSH FOR HELP	4	41548	LED Faceplate Light
2	50002	Double Button IA4100 Analog Phone – PUSH FOR HELP	5	CALL	Standard / Custom Graphic
2	50003	Keypad IA4100 Analog Phone – PUSH FOR HELP	6	41471	Analog Surge Suppressor
2	50004	Single Button IA4100 Analog Phone – EMERGENCY	6	41421	IP Surge Suppressor
2	50005	Double Button IA4100 Analog Phone – EMERGENCY	7	41539	LED Area Light
2	50006	Keypad IA4100 Analog Phone – EMERGENCY	8	41544	Faceplate Security Screw 10x24 (6 pk)
2	50007	Single Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA	9	41412	HID Lens
2	50008	Double Button IA4100 Analog Phone – EMERGENCY/EMERGENCIA	10	40159	LED Blue Beacon Strobe
2	50009	Keypad IA4100 Analog Phone – EMERGENCY/EMERGENCIA	11	40543	Strobe Disk (3 pk)
2	50101	Single Button IP5000 VoIP Phone – PUSH FOR HELP	12	10084	Clear Strobe Spacer
2	50102	Double Button IP5000 VoIP Phone – PUSH FOR HELP	13	40102	Wall Mount Hardware Kit
2	50103	Keypad IP5000 VoIP Phone – PUSH FOR HELP	14	40105	Power Brick 120V, 240V, 277V, 347V
2	50104	Single Button IP5000 VoIP Phone – EMERGENCY			

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.

13 CB 2-a Installation Instructions

Legal Considerations

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

Liability

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

Intellectual Property Rights

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

Equipment Modifications

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

Trademark Acknowledgments

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

Regulatory Information

Electromagnetic Compatibility (EMC)
This equipment has been designed and tested to fulfill applicable standards for:

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

USA

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

Canada

This digital apparatus complies with CAN ICES-3 (Class A). The product shall be connected using a shielded network cable (STP) that is properly grounded. Cet appareil numérique est conforme à la norme NMB ICES-3 (classe A). Le produit doit être connecté à l'aide d'un câble réseau blindé (STP) qui est correctement mis à la terre.

Safety

This product complies with 62638-1 Safety of Information Technology Equipment. The product shall be grounded either through a shielded network cable (STP) or other appropriate method. The power supply used with this product shall fulfill the requirements for Safety Extra Low Voltage (SELV) and Limited Power Source (LPS) according to IEC/EN/UL 60950-1. This unit complies with IP54/NEMA 3 and IEC 61969-3 Class 1 specifications.

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 ts@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 (800) 205-7186, option 2.

Disposal and Recycling

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

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

Support

Should you require any technical assistance, please contact Code Blue. Visit codeblue.com to:

- Download user documentation and software.
- Find answers to resolved problems in the FAQ database.
- Report problems to Code Blue Technical Support via email at ts@codeblue.com or 800-205-7186.

Safety Information

Hazard Levels

DANGER
Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING
Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION
Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE
Indicates a situation which, if not avoided, could result in damage to property.

Other Message Levels

Important
Indicates significant information that is essential for the product to function correctly.

Note
Indicates useful information that helps get the most out of the product.

Safety Instructions

WARNING
- Code Blue products shall be installed by trained professionals.

NOTICE
- Code Blue products shall be used in compliance with local laws and regulations.
- Store the Code Blue product in a dry and ventilated environment.
- Do not install the product on unstable brackets, surfaces or walls.
- Use only applicable tools when installing Code Blue products.
- Do not use chemicals, caustic agents, steel wool or aerosol cleaners other than those tested and recommended by Code Blue.
- Use only accessories that comply with technical specifications of the product. These can be provided by Code Blue or a third party.
- Use only spare parts provided by or recommended by Code Blue.
- Do not attempt to repair the product by yourself. Contact Code Blue or your Code Blue reseller for service.

Transportation

NOTICE
- When transporting a Code Blue product, use the original packaging or equivalent to prevent damage to the product.
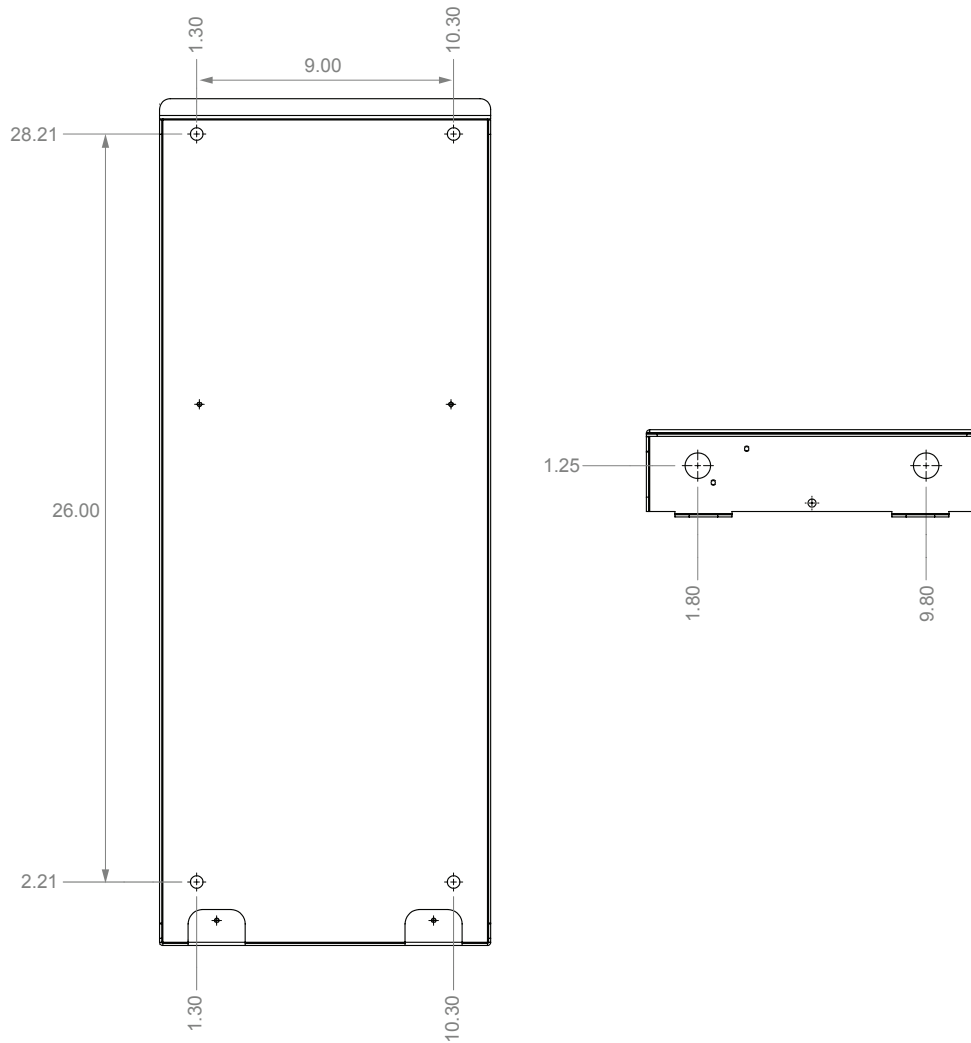
Tools needed for installation:

1. Drill
2. Drill bit (5/8" Masonry bit for concrete; 1/2" standard bit for wood)
3. 3/8" Hex head driver bit
4. Level

Basic installation instructions:

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

Mounting Schematics

14 CB 2-e 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 Remove the top of the unit.

2.2 **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.)

2.3 Drill all marked holes.

2.4 **Install the housing** – Four anchors of appropriate size and type should be used to fasten the housing to the wall.
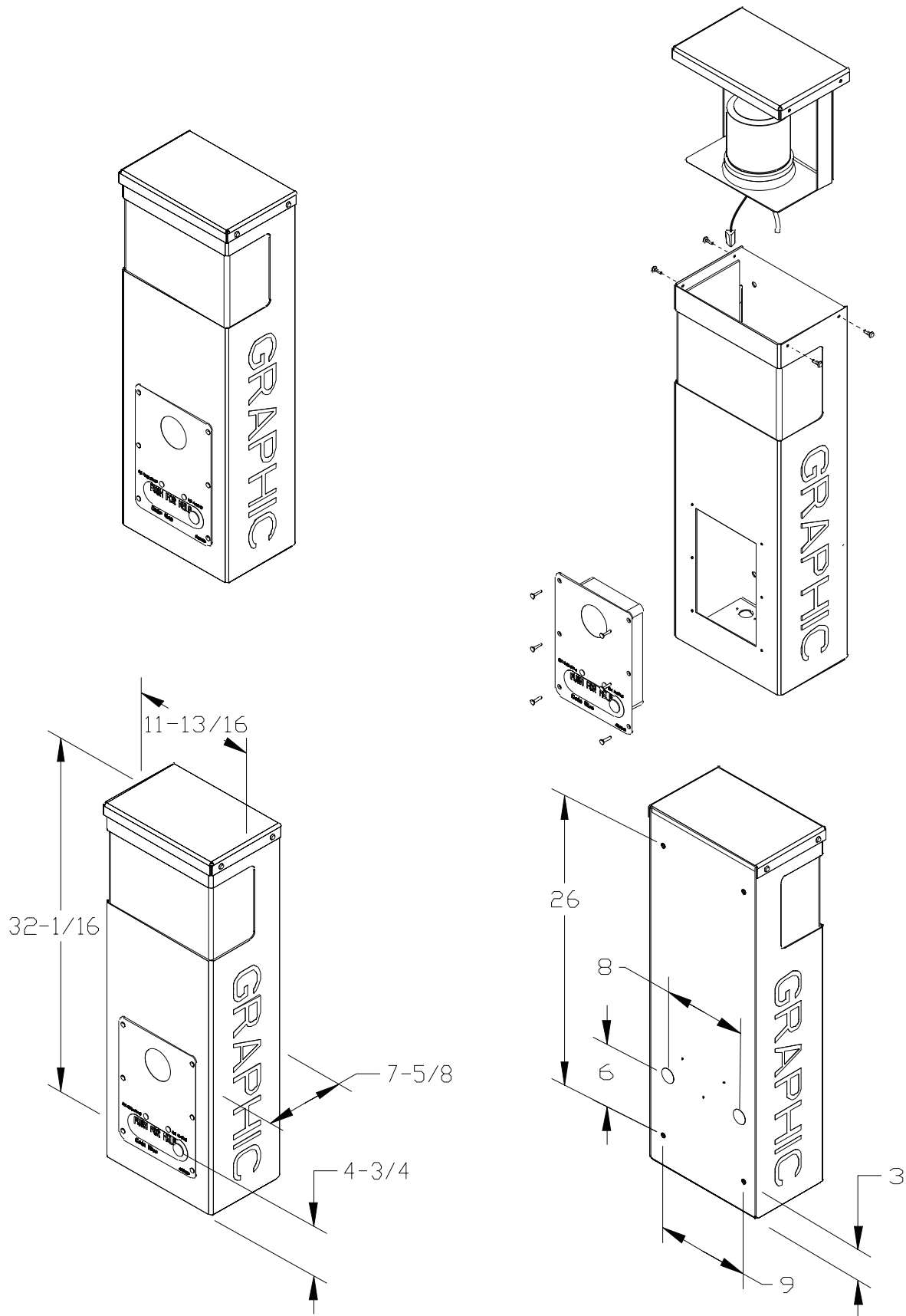
   IMPORTANT: If wiring is supplied from the back, ensure that the conduit is aligned at this time.
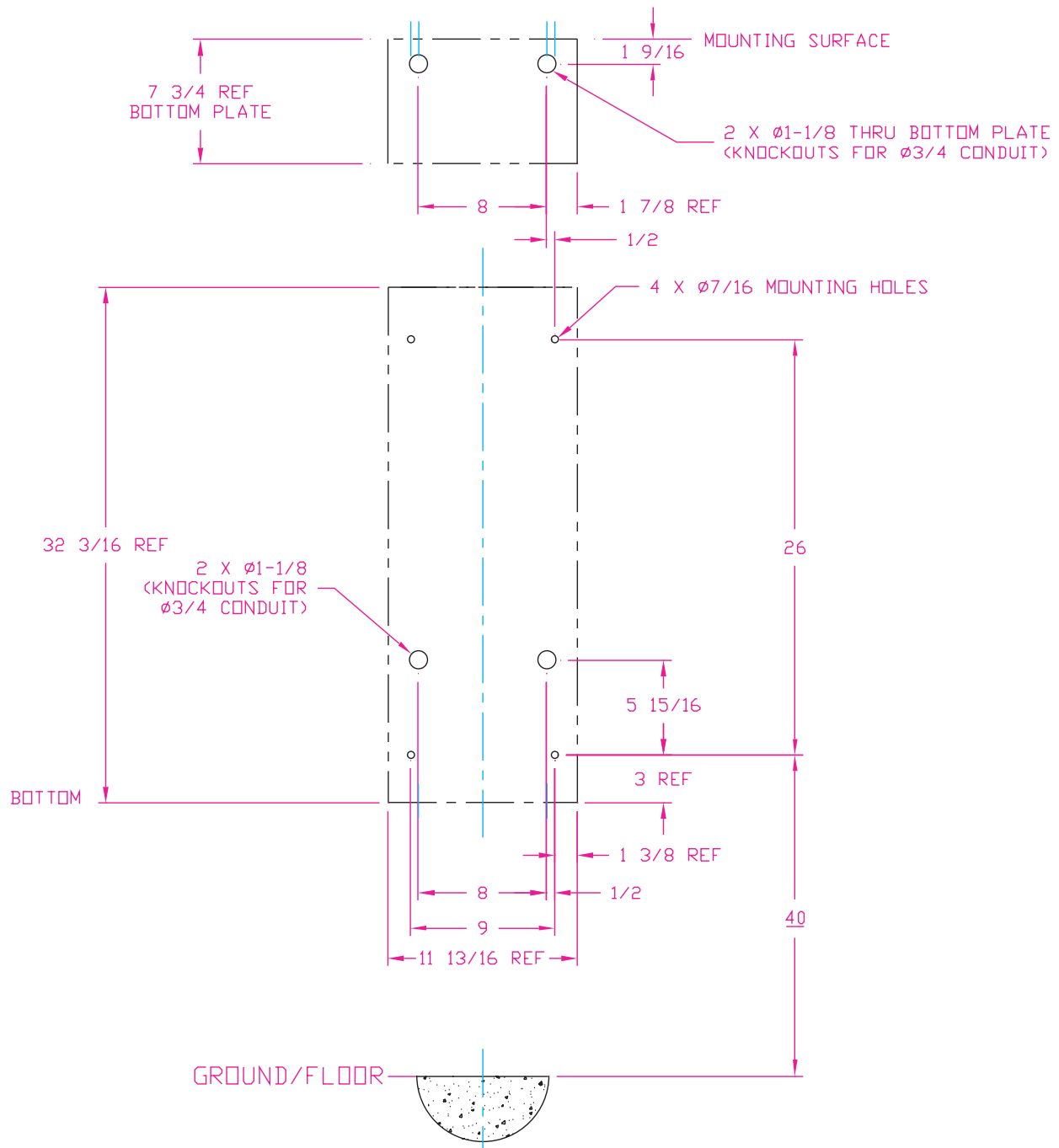
2.5 Reattach the top.

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** – The unit will contain a 5 finger manifold with corresponding fuses per component. Incoming power is connected to the red and black wires on the manifold.

3.3 **120/240V AC supply** – The unit will contain a small 120V AC 40VA transformer. The incoming power would run to the two forks coming off of the transformer and power is distributed through the 5 finger manifold.

3.4 **120,240,277,347V AC Multi-tap transformer** – Incoming power will be connected to the transformer and wiring will depend on incoming voltage. A wiring diagram depicting each voltage option is located on top of the multi-tap transformer. Power will be distributed through the multiple fingers coming off the transformer.

3.5 **PoE Power** – The unit will contain a PoE splitter and an IP surge suppressor. The incoming RJ45 connector would run to the IP surge suppressor inside the unit. A CAT 5 cable from the surge suppressor runs to the PoE splitter. All power in the unit is distributed through the PoE splitter.

See diagrams next page

11-13/16

32-1/16

7-5/8

4-3/4

26

8

6

3

9

MOUNTING SURFACE

1 9/16

7 3/4 REF
BOTTOM PLATE

2 X Ø1-1/8 THRU BOTTOM PLATE
(KNOCKOUTS FOR Ø3/4 CONDUIT)

8   1 7/8 REF

1/2

4 X Ø7/16 MOUNTING HOLES

32 3/16 REF

2 X Ø1-1/8
(KNOCKOUTS FOR
Ø3/4 CONDUIT)

26

5 15/16

3 REF

BOTTOM

1 3/8 REF

8   1/2

9

40

11 13/16 REF

GROUND/FLOOR

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.

15 CB 2-e with Public Address 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 Remove the top of the unit.

2.2 **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.)

2.3 Drill all marked holes.

2.4 **Install the housing** – Four anchors of appropriate size and type should be used to fasten the housing to the wall.

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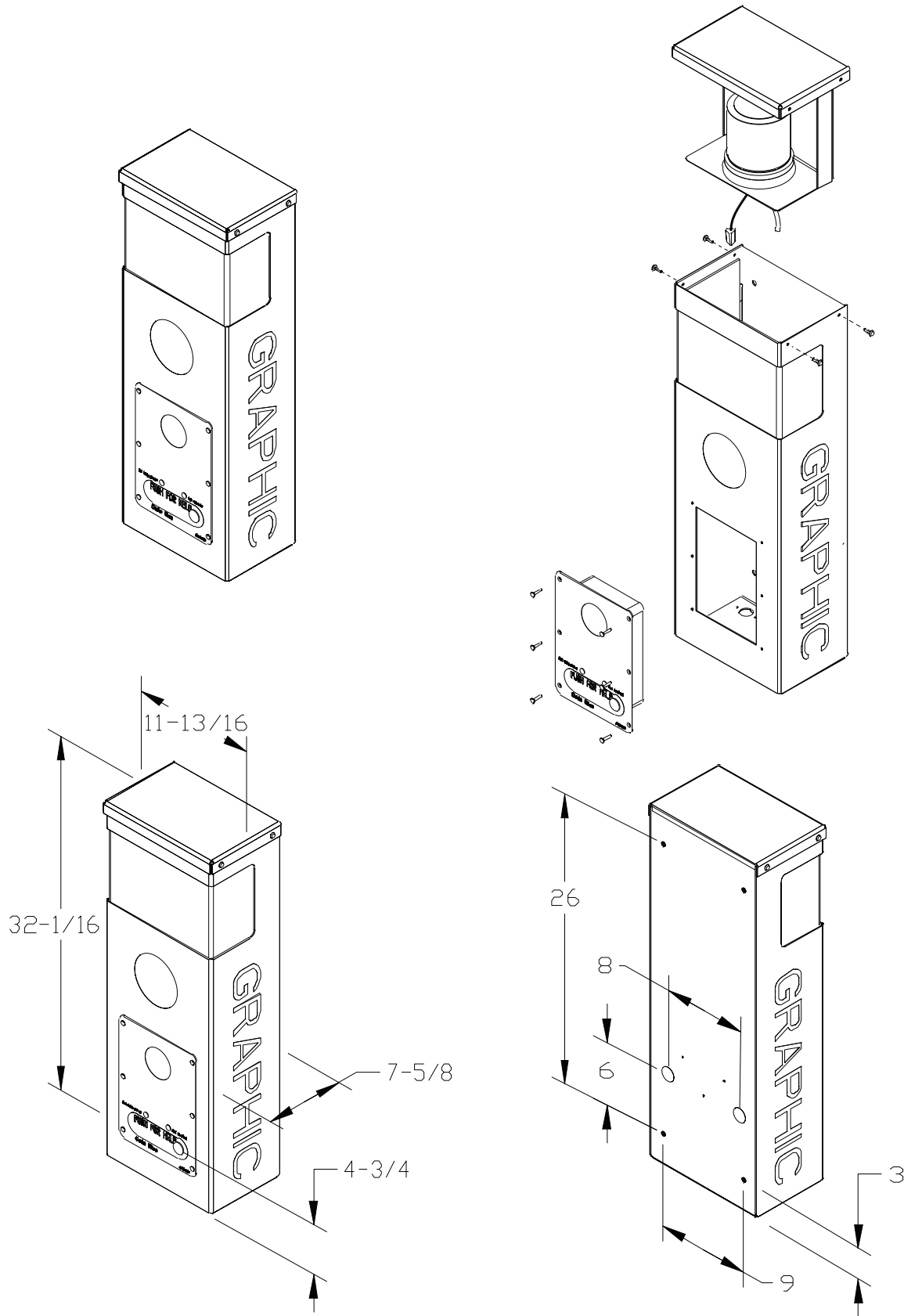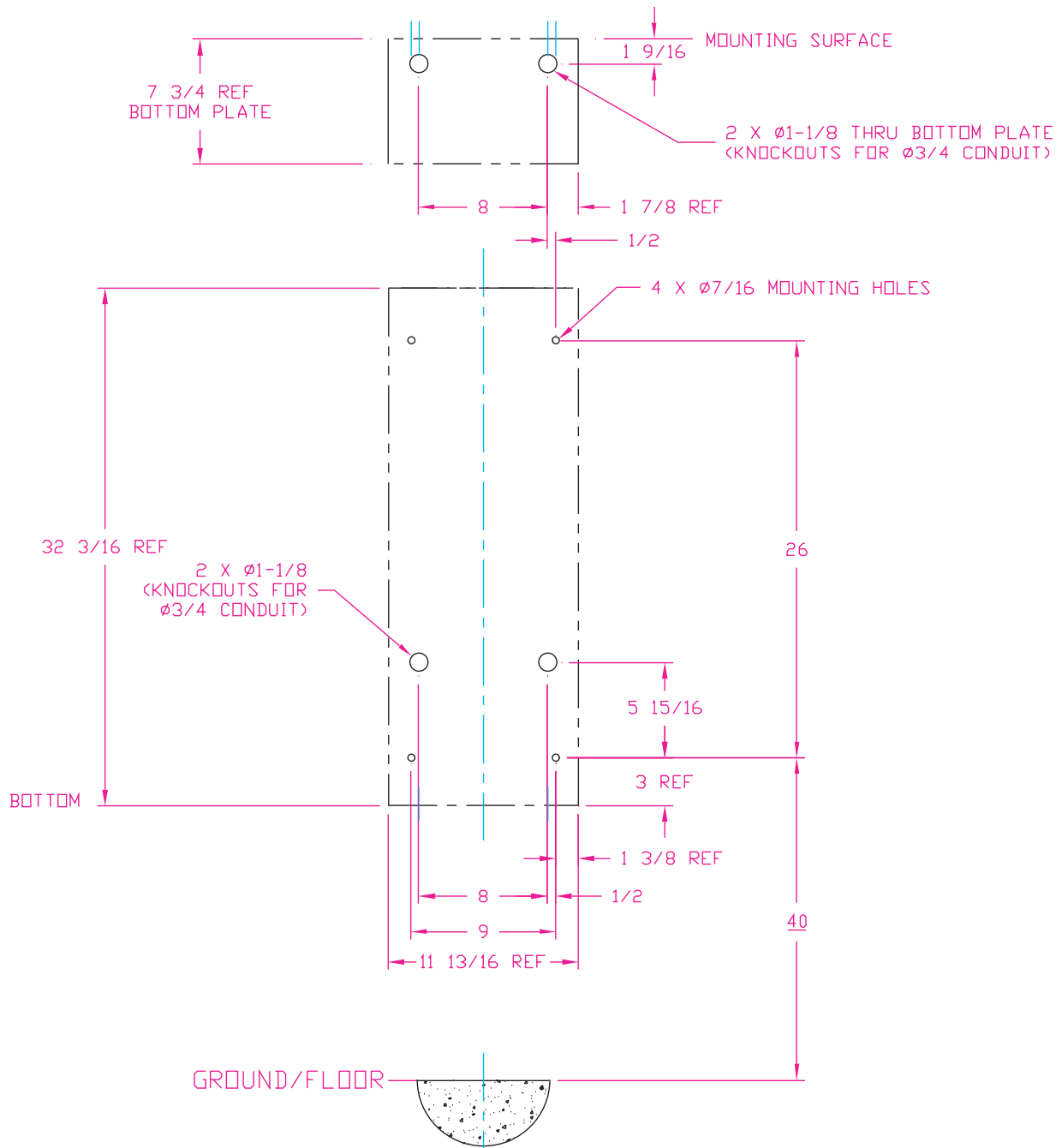
2.5 Reattach the top.

3.0 ELECTRICAL WIRING

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

3.2 **24V AC supply** – The unit will contain a 5 finger manifold with corresponding fuses per component. Incoming power is connected to the red and black wires on the manifold.

3.3 **120/240V AC supply** – The unit will contain a small 120V AC 40VA transformer. The incoming power would run to the two forks coming off of the transformer and power is distributed through the 5 finger manifold.

3.4 **120,240,277,347V AC Multi-tap transformer** – Incoming power will be connected to the transformer and wiring will depend on incoming voltage. A wiring diagram depicting each voltage option is located on top of the multi-tap transformer. Power will be distributed through the multiple fingers coming off the transformer.

3.5 **PoE Power** – The unit will contain a PoE splitter and an IP surge suppressor. The incoming RJ45 connector would run to the IP surge suppressor inside the unit. A CAT 5 cable from the surge suppressor runs to the PoE splitter. All power in the unit is distributed through the PoE splitter.

4.0 COMMUNICATIONS WIRING

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

See diagrams next page

11-13/16

32-1/16

7-5/8

4-3/4

26

8

6

3

9

MOUNTING SURFACE

1 9/16

7 3/4 REF
BOTTOM PLATE

2 X Ø1-1/8 THRU BOTTOM PLATE
(KNOCKOUTS FOR Ø3/4 CONDUIT)

8

1 7/8 REF

1/2

4 X Ø7/16 MOUNTING HOLES

32 3/16 REF

26

2 X Ø1-1/8
(KNOCKOUTS FOR
Ø3/4 CONDUIT)

5 15/16

BOTTOM

3 REF

1 3/8 REF

8

1/2

9

40

11 13/16 REF

GROUND/FLOOR

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.

16 CB 2-e with AED Housing 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 (see Figure 1).

2.0 INSTALLATION PROCEDURES

2.1 Remove the top of the unit.

2.2 **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 guide-lines.)

2.3 Drill all marked holes.

2.4 **Install the housing** – Four anchors of appropriate size and type should be used to fasten the housing to the wall.
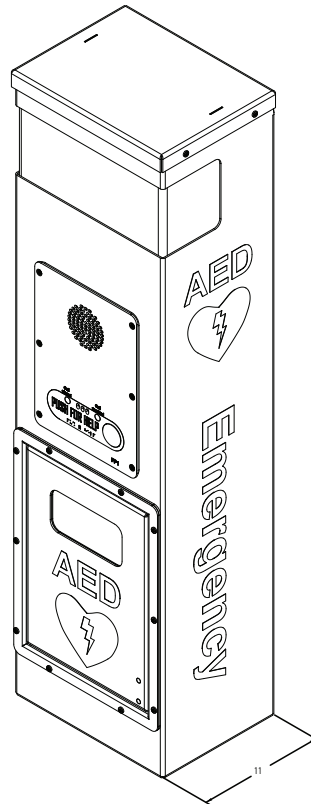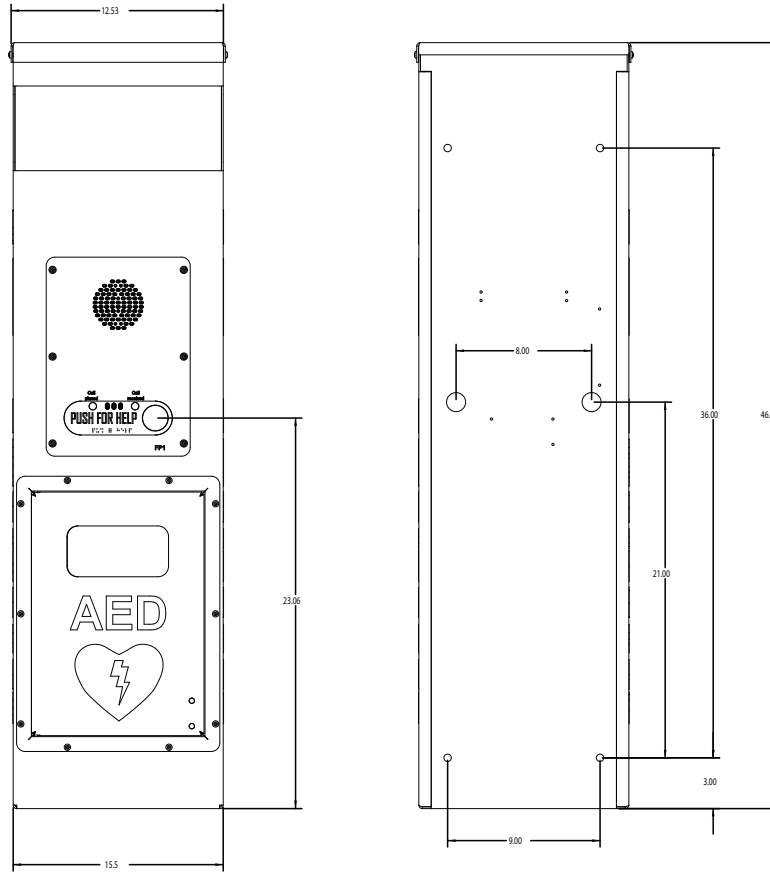
   IMPORTANT: If wiring is supplied from the back, ensure that the conduit is aligned at this time.

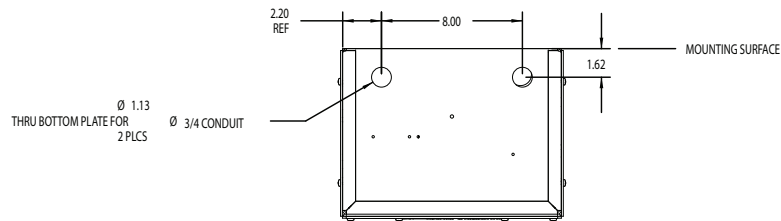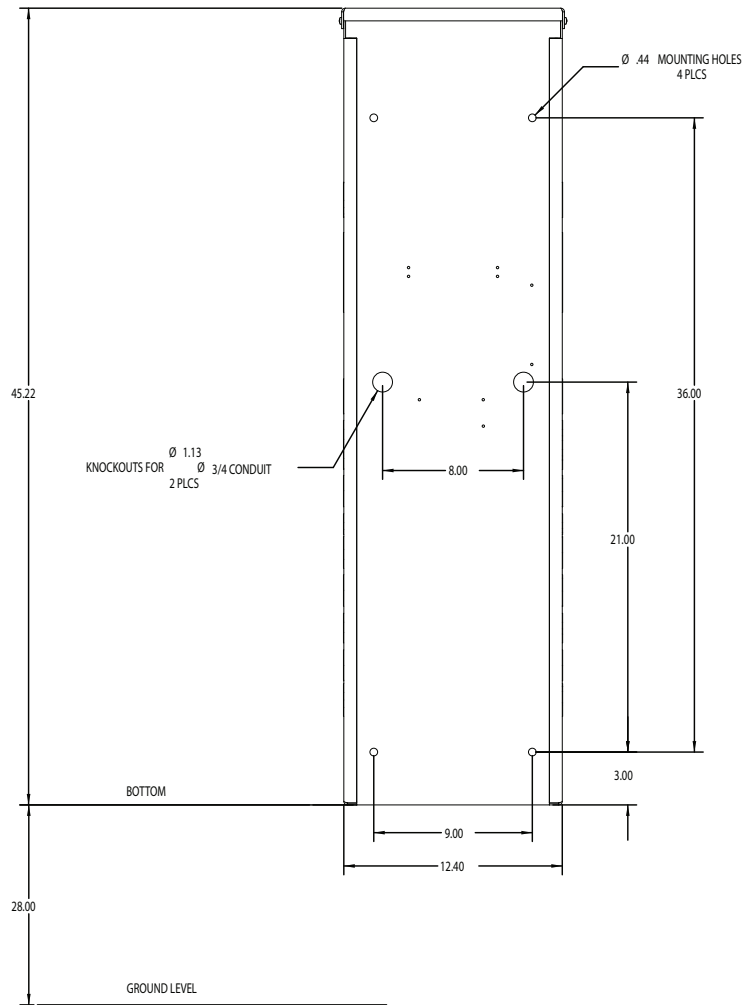2.5 Reattach the top.

3.0 WIRING

3.1 **120/240V AC supply** – Feed the incoming power leads into the supplied J-Box. Connect the ground to the supplied grounding lug. Connect the neutral to the orange lead for fusing the unit. Connect the load to the black wires. After completing the wire connections, install the supplied J-Box cover and ensure all cord grips are secure.

See diagrams next page

45.22

Ø .44 MOUNTING HOLES
4 PLCS

36.00

Ø 1.13
KNOCKOUTS FOR   Ø 3/4 CONDUIT
2 PLCS

8.00

21.00

3.00

BOTTOM

9.00

12.40

28.00

GROUND LEVEL

2.20
REF

8.00

MOUNTING SURFACE

1.62

Ø 1.13
THRU BOTTOM PLATE FOR   Ø 3/4 CONDUIT
2 PLCS

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.
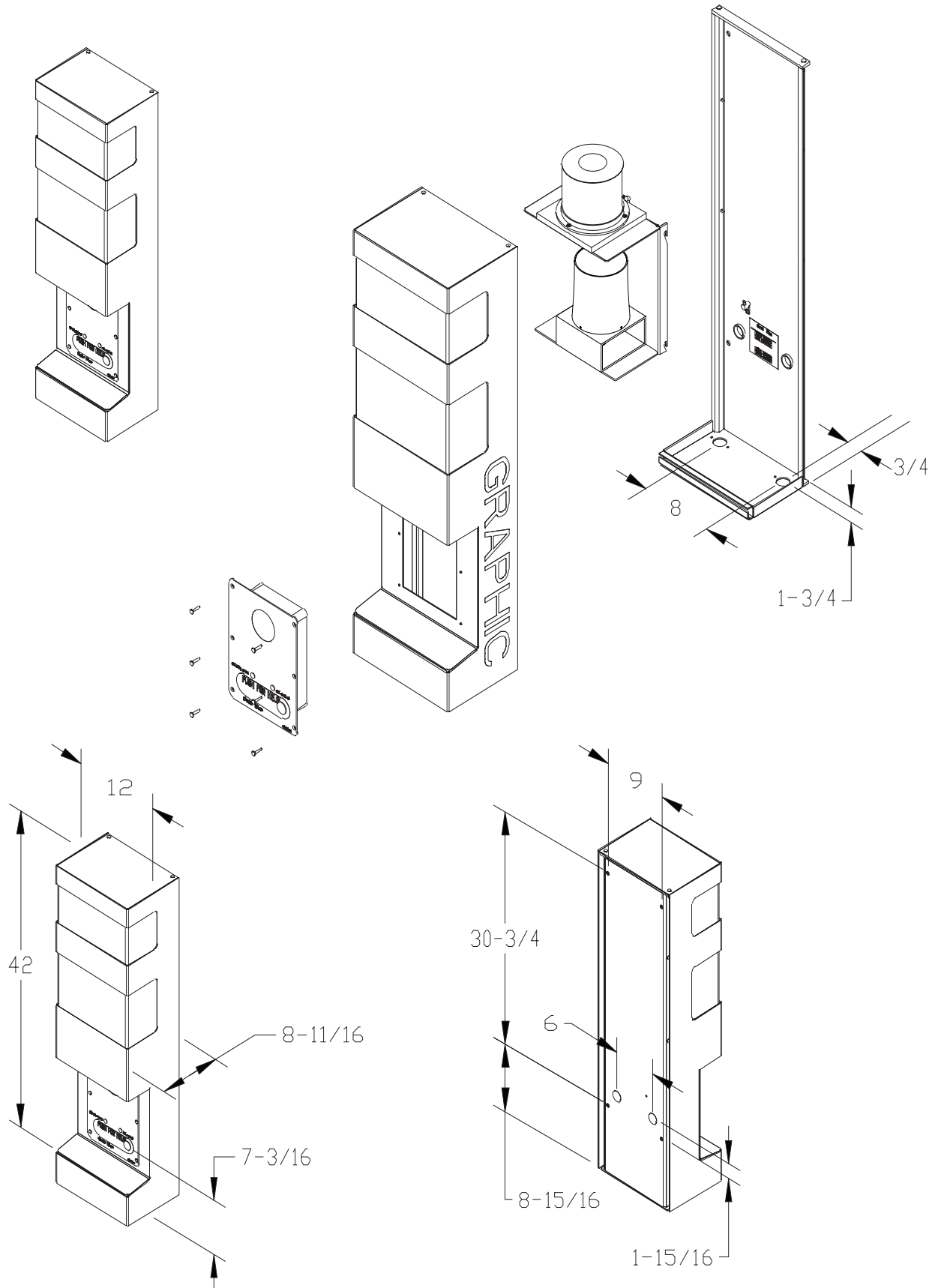
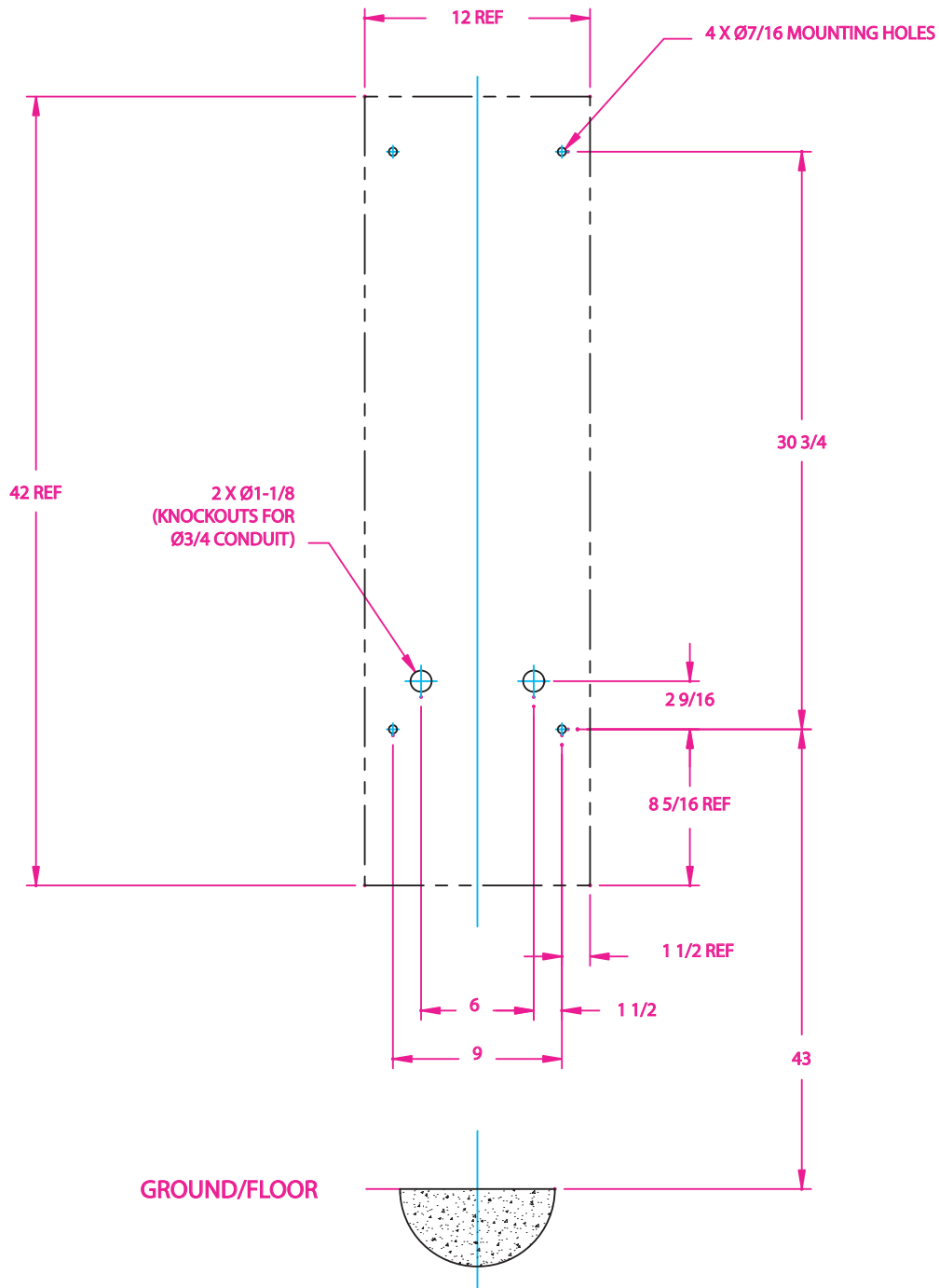# 17 CB 2-s Installation Instructions

1.0 PRE-INSTALLATION

1.1 Running the wires – Wires to the unit may be run either (a) from behind the unit through the wall, or (b) from 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 Remove the light bracket and outer shell from the back plate.

2.2 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.)

2.3 Install the back plate – Four anchors should securely fasten the back plate to the wall.

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

2.4 Reattach the light bracket.

2.5 Reattach the outer shell – Holding the shell horizontal, hook the bottom hinge into the bottom of the back plate. Swing the shell up and fasten the safety cable to the eyehook.

2.6 Connect electrical and communications wiring (see wiring instructions).

2.7 Close the unit – Fasten the outer shell to the back plate using two #10 countersunk security screws.

See diagrams next page

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8

1-3/4

12

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8-11/16

7-3/16

9

30-3/4

6

8-15/16

1-15/16

12 REF

4 X Ø7/16 MOUNTING HOLES

42 REF

30 3/4

2 X Ø1-1/8
(KNOCKOUTS FOR
Ø3/4 CONDUIT)

2 9/16

8 5/16 REF

1 1/2 REF

6

1 1/2

9

43

GROUND/FLOOR

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.

18 Pole Mount Bracket Installation Instructions

1.0 THREAD MOUNTING STRAPS THROUGH SLOTS

1.1 Thread mounting straps through slots for any size poles.

2.0 HOLD BRACKET TO POLE

2.1 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 into banding tool nose slot.

3.4 When maximum tension has been reached, roll tool over buckle. At same time reversing handle carefully
approximately ¾ 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 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

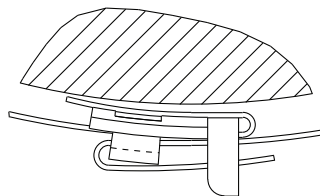4.1 Place a rubber washer (D) on each of the four studs.

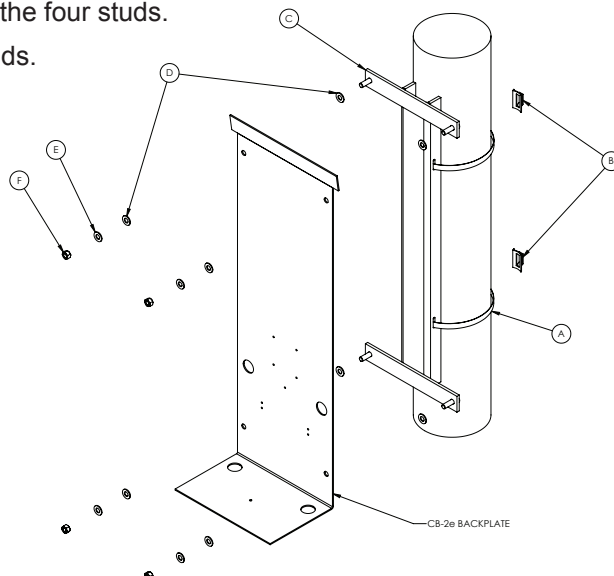4.2 Align and place the back plate of the unit over the four studs.

4.3 Place a second set of rubber washers on to 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.

CB-2e BACKPLATE

19 AED Access and Maintenance Guide

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

1. When the red button is depressed, the unit will make a call. After the call has been answered, the answering party can then depress the appropriate incall command on their telephone keypad. This will release the door latch, giving the caller access to the AED device.

2. The units have a key fob supplied at the time of purchase. This key fob can be used within approximately a 20-foot radius to release the door latch, giving the caller access to the AED device.

3. The unit can be called and placed into two-way monitor mode. At this time, the person calling the unit can depress the 6 key on their telephone keypad which, will provide access to the AED device.

4. The access panel on the back of the Code Blue unit is removed and the manual latch release is pulled, granting access to the AED device.

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

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

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

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

PROGRAMMING:

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

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

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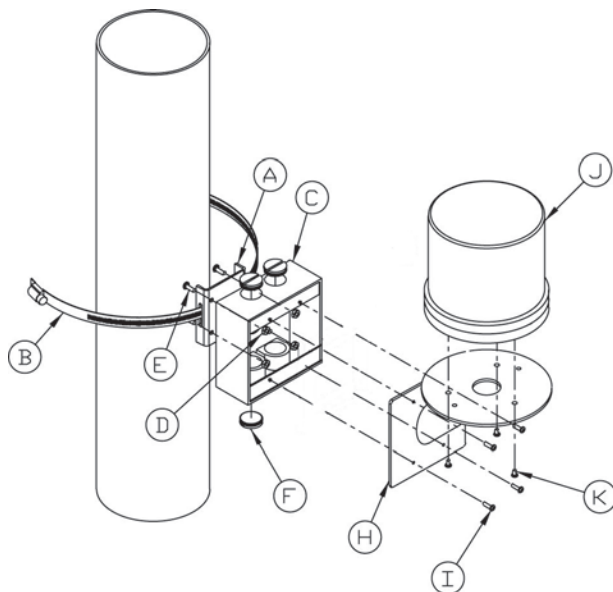
A - pole-bracket
B - banding
C - J-box
D - pole-bracket mount nut (4 each)
E - pole-bracket mount screw (4 each)
F - conduit plug
H - strobe-bracket
I - 6-32 X ½ screws (4 each)
J - strobe light
K - M4 X 8 screws (3 each) (Low voltage)
K - 10-24 X ¾ screws (2 each) (High voltage)

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.

21 S-1000/S-1050/S-2000 Installation Instructions

S-2000 (for CB 2-a ONLY)

M3159-R/BK   RED   POSITIVE (12-24V DC or AC)
BLACK   COMMON (GROUND)

M3159-Y/Y   YELLOW   (FLASH MODE)
DRY CONTACT CLOSED = "ON"   YELLOW   (FLASH MODE)

S-1000

M3159-R/BK   RED   POSITIVE (12-24V DC or AC)
BLACK   COMMON (GROUND)

M3159-Y/Y   YELLOW   (FLASH MODE)
DRY CONTACT CLOSED = "ON"   YELLOW   (FLASH MODE)
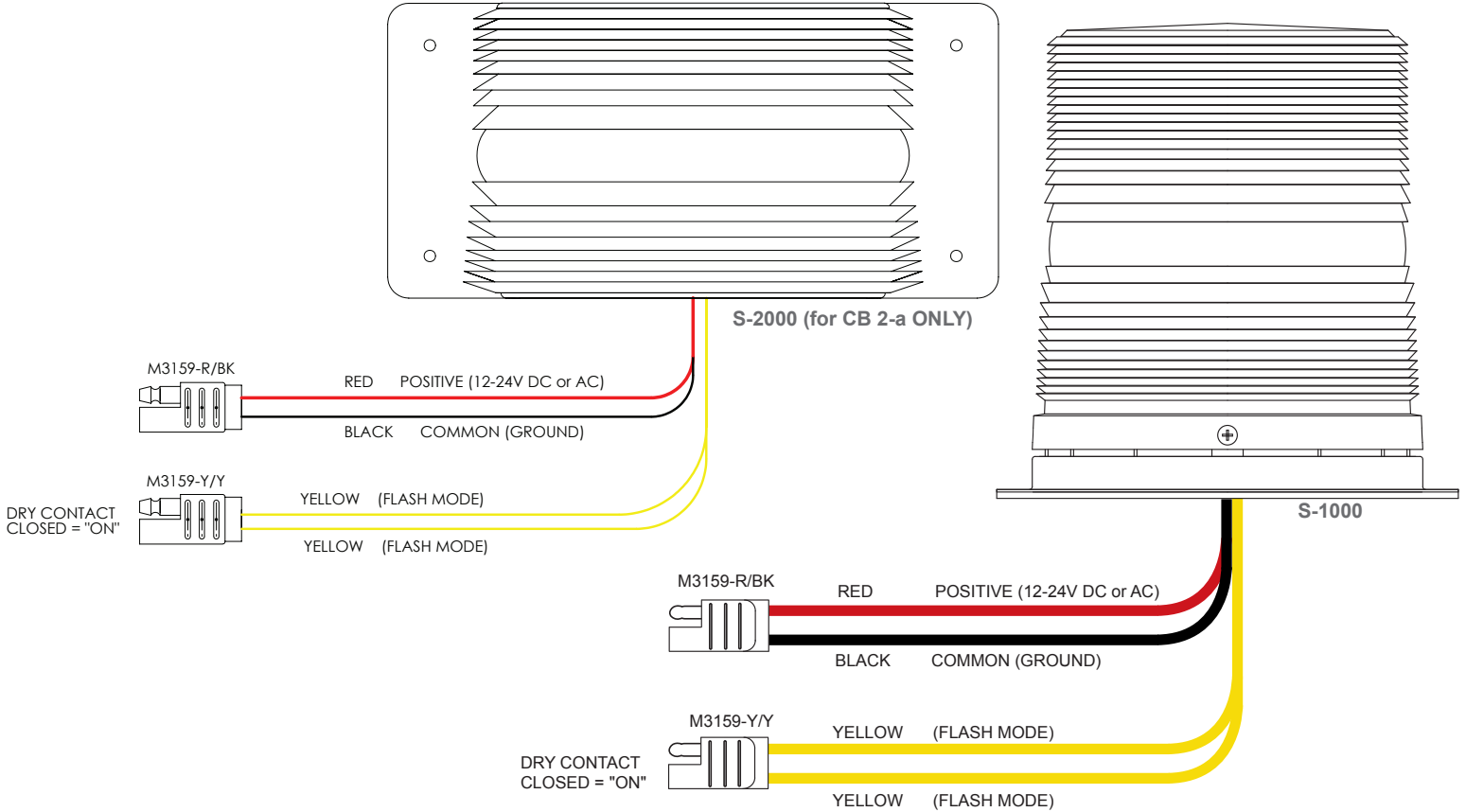
NOTE: Instructions pertain to Model S-1000 LED Beacon/Strobe, Model S-1050 LED Beacon/Strobe and Model S-2000 LED Beacon/Strobe only.

CAUTION: REMOVE ALL POWER FROM UNIT BEFORE SERVICING.

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.		

22 PoE Installation Instructions

1 First: Electrical connections, All 4 Code Blue devices should to be connected to the 5 place manifold

2 Second: Manifold fused red lead and black wires are secured to spring cage connector on the PoE+ Splitter. SEE DIAGRAM

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

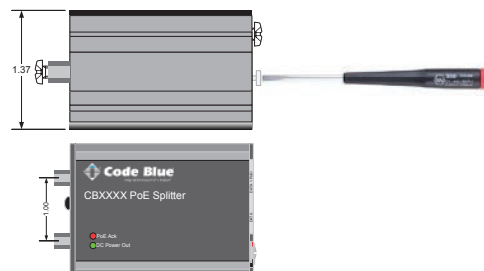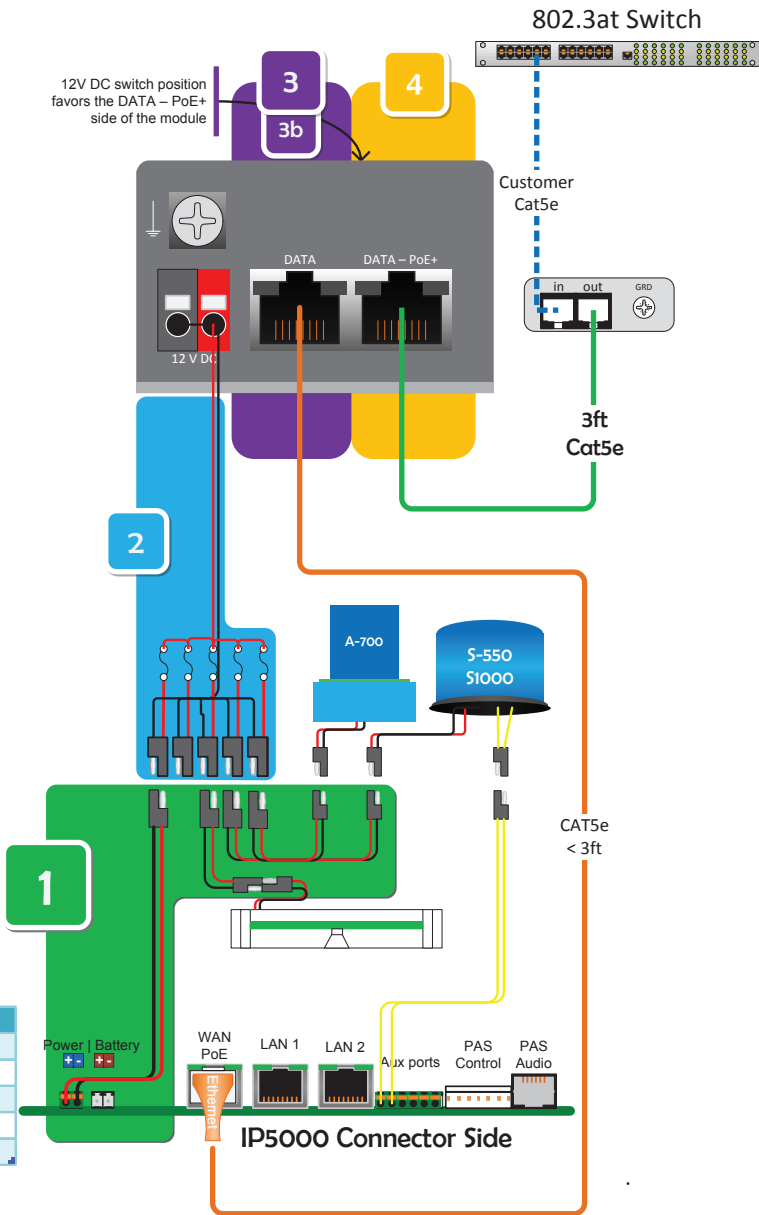**3b** Voltage Selector Switch on the back must be in the 12V DC position

4 Fourth: 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.

802.3at Switch

12V DC switch position favors the DATA – PoE+ side of the module

Customer Cat5e

DATA   DATA – PoE+

12 V DC

in out GRD

3ft Cat5e

A-700

S-550 S1000

CAT5e < 3ft

Electrial Modes 12VDC	Amps	Wattage
InRush (I)	2.00	24
InRush Avg	0.40	4.8
Standby	0.55	6.6
Talk - In Call	0.78	9.36

Power | Battery

WAN PoE   LAN 1   LAN 2   Aux ports   PAS Control   PAS Audio

Ethernet

IP5000 Connector Side

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.

When connecting PoE to the unit's internal ground, make sure the unit itself is grounded to an outside local ground.

1.37

Code Blue
CBXXXX PoE Splitter

PoE Act
DC Power Out

23 CB 2 Series 24V or 120V Multi-Tap Power Brick Wiring

Lighting Units

LED Area Light
24V AC or 12V DC

CB 1-s&d
CB 2-s units only

Beacon/Strobe
12 – 24 Volts AC or DC

LED Faceplate light
12 – 24 Volts AC or DC

Strobe
Trigger

Power Source

Wire Buss

12 to 24 AC
or DC

Common or Neg

- Wire Buss fuse: 5A GMA Slow Blow Series 239
- Power Brick LV Fuses are generally 2A GMA

Power Brick

120, 240, 277, 347V AC @ 250V A

DC 12

AC 24

Supplied Modular Inter-connect Cables

Communication Connections

Analog Surge Protector
in   out

IA4100

POTS Line

One pair modular

Copper Cat 3 - 7-

RJ-11 cord
Fiber - FXS media converter

Fiber

Power

Fiber -
Ethernet
media
converter

Power

Ethernet Surge Protector
in   out

IP5000

Fiber

Copper Cat 5e - 7-

Cat 5e or 6

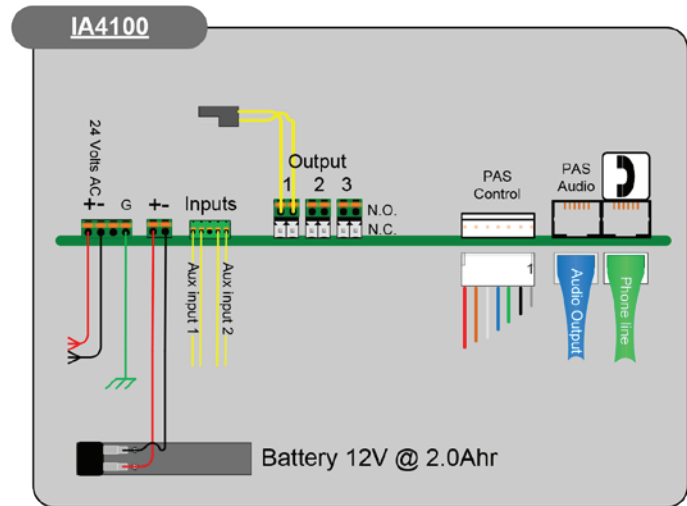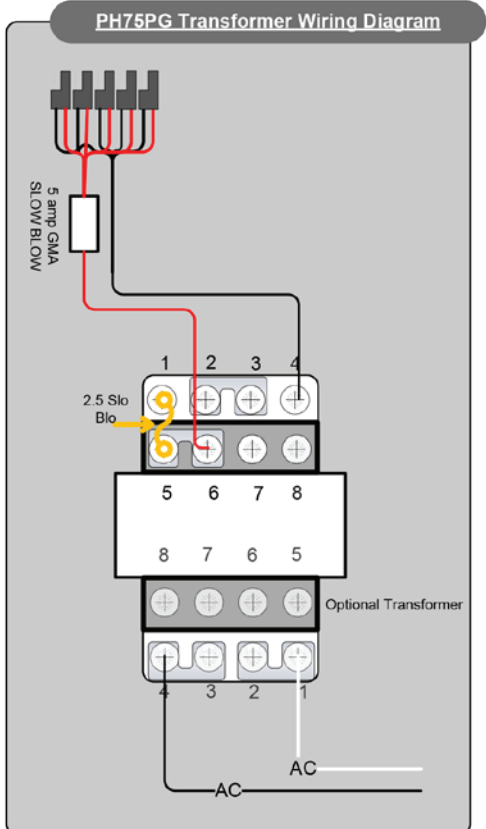### IA4100

Output
1 2 3

+- G +- Inputs   N.O.
                            N.C.

12 – 24 Volts AC or DC

Aux input 1
Aux input 2

PAS
Control

PAS
Audio

Audio Output

Phone line

Battery 12V @ 2.0Ahr

IP5000

LAN
PoE   LAN   LAN   Aux ports   PAS
                                          Control

PAS
Audio

12 – 24 Volts AC or DC

Ethernet

Aux Output 2
Aux Output 1
Aux Input 1

Audio Output

Optional Battery 12V @ 2.0Ahr

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.

24 CB 2 Series 120V Standard Wiring (prior to 03/2013)
(with Hammond Transformer)

Lighting Units

Beacon Strobe
12 – 24 Volts AC or DC

LED Area Light
24V AC or 12V DC

CB 1-s & CB 1-d
CB 2-s units only

LED Faceplate light
12 – 24 Volts AC or DC

Strobe Trigger

Supplied Modular Inter-connect Cables

PH75PG Transformer Wiring Diagram

5 amp GMA
SLOW BLOW

2.5 Slo Blo

1 2 3 4

5 6 7 8

8 7 6 5

Optional Transformer

4 3 2 1

AC

AC

IA4100

24 Volts AC

+ - G + - Inputs

Output
1 2 3
N.O.
N.C.

Aux Input 1
Aux Input 2

PAS Control

PAS Audio

Audio Output

Phone line

1

Battery 12V @ 2.0Ahr

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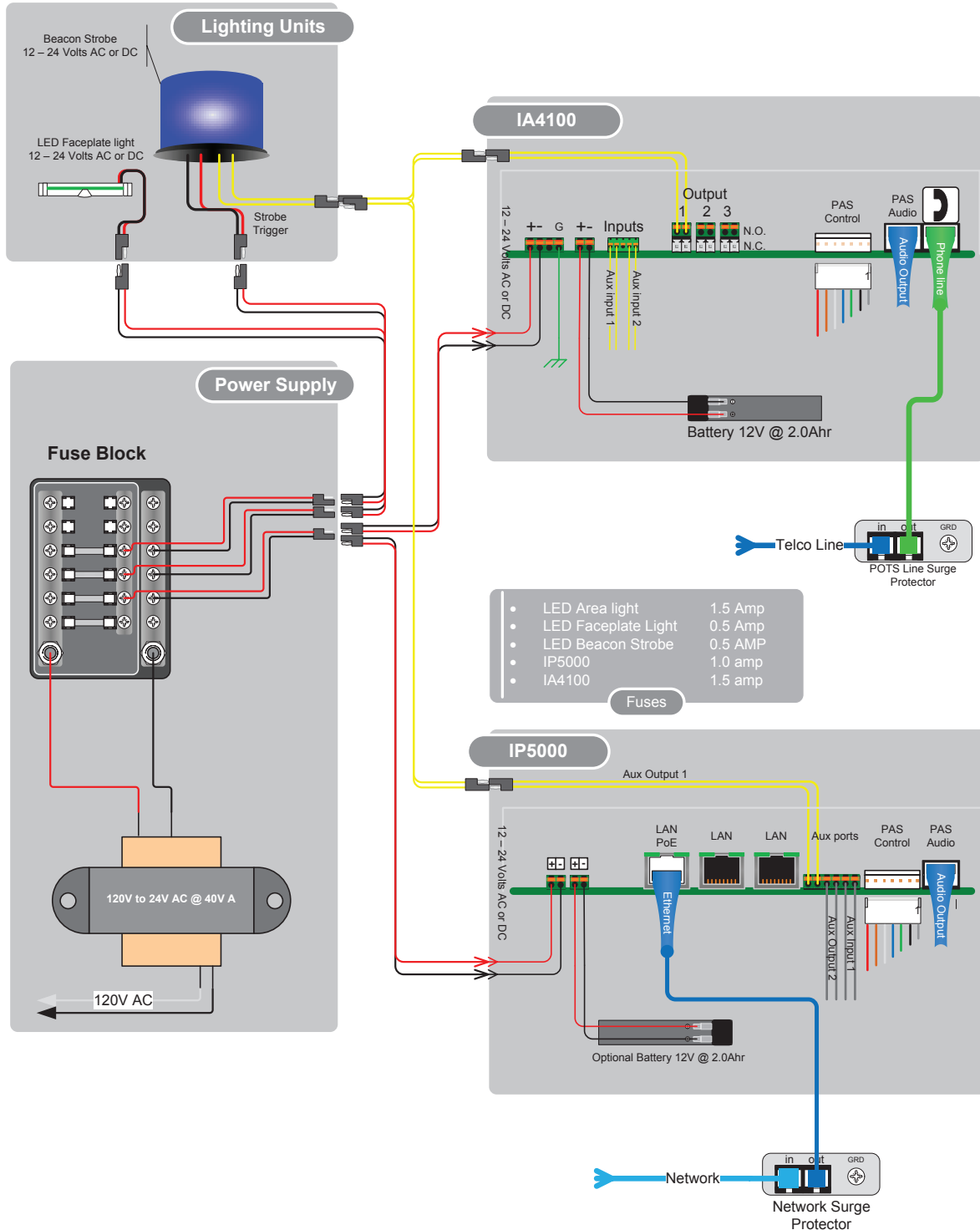
Product wiring diagram shown reasonably represents current offering and is intended to assist in component identification and service. Earlier product production may have different components and wiring connections. Reference the model and serial number from the unit ID tag and contact manufacturer to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

25 CB 2-e 120V Standard Wiring (after 2015)
(with Triad Transformer)

Lighting Units

Beacon Strobe
12 – 24 Volts AC or DC

LED Faceplate light
12 – 24 Volts AC or DC

Strobe Trigger

IA4100

12 – 24 Volts AC or DC

Output
1 2 3

Inputs
Aux input 1
Aux input 2

N.O.
N.C.

PAS Control

PAS Audio

Audio Output

Phone line

Battery 12V @ 2.0Ahr

Power Supply

Fuse Block

120V to 24V AC @ 40V A

120V AC

Telco Line

in out GRD

POTS Line Surge Protector

- LED Area light   1.5 Amp
- LED Faceplate Light   0.5 Amp
- LED Beacon Strobe   0.5 AMP
- IP5000   1.0 amp
- IA4100   1.5 amp

Fuses

IP5000

Aux Output 1

12 – 24 Volts AC or DC

LAN PoE LAN LAN Aux ports

Ethernet

Aux Output 2
Aux Input 1

PAS Control

PAS Audio

Audio Output

Optional Battery 12V @ 2.0Ahr

Network

in out GRD

Network Surge Protector

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.
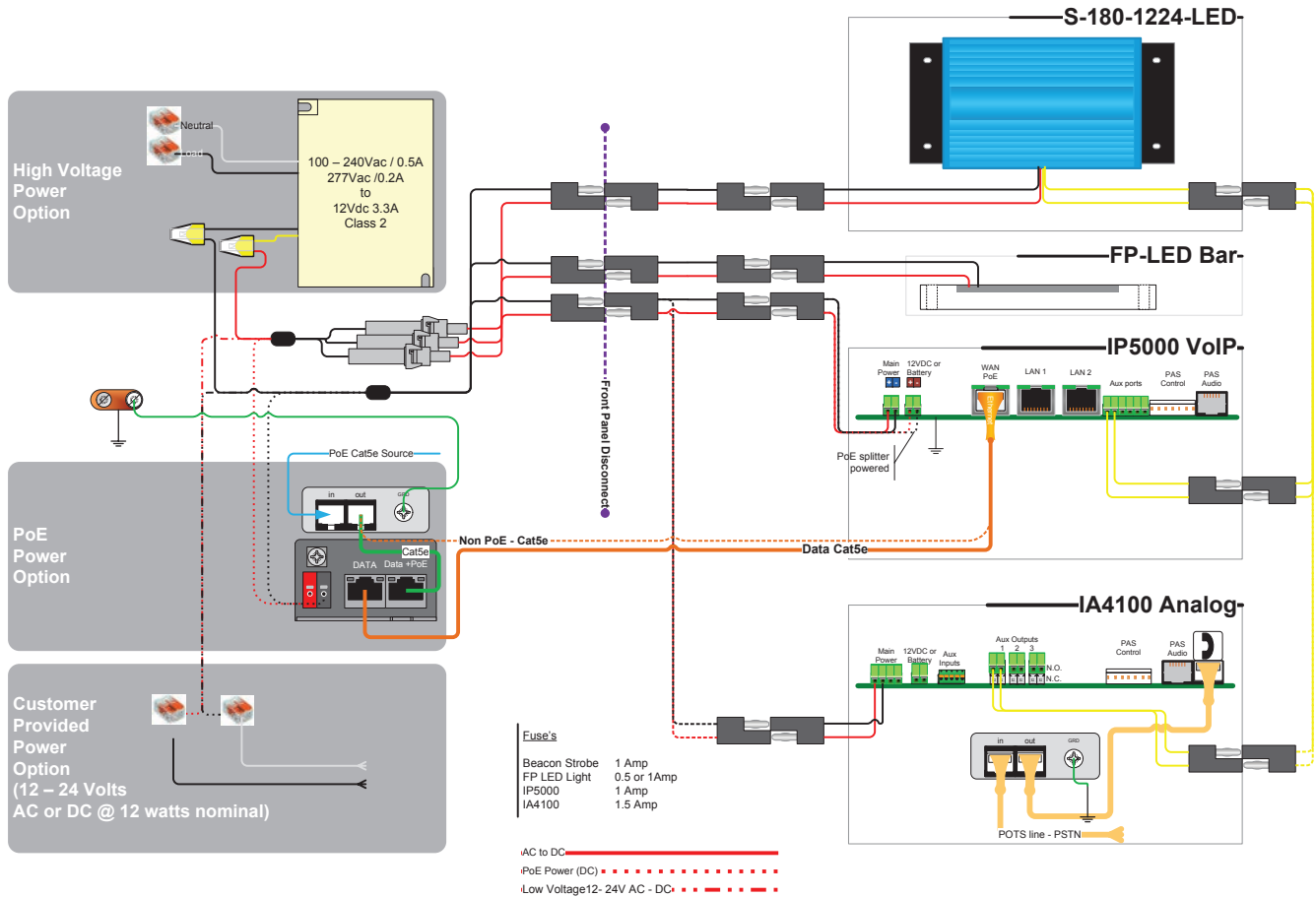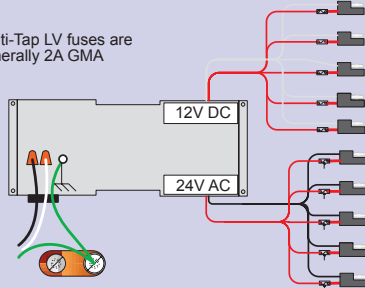
26 CB 2-a Wiring Diagram

S-180-1224-LED

FP-LED Bar

IP5000 VoIP

IA4100 Analog

High Voltage Power Option

Neutral

100 – 240Vac / 0.5A
277Vac /0.2A
to
12Vdc 3.3A
Class 2

PoE Power Option

PoE Cat5e Source

in   out

Cat5e
DATA   Data +PoE

Customer Provided Power Option
(12 – 24 Volts AC or DC @ 12 watts nominal)

Front Panel Disconnect

Non PoE - Cat5e

Data Cat5e

Main Power   12VDC or Battery   WAN PoE   LAN 1   LAN 2   Aux ports   PAS Control   PAS Audio

PoE splitter powered

Main Power   12VDC or Battery   Aux Inputs   Aux Outputs 1 2 3   N.O.   N.C.   PAS Control   PAS Audio

in   out   GRD

POTS line - PSTN

Fuse's

Beacon Strobe	1 Amp
FP LED Light	0.5 or 1Amp
IP5000	1 Amp
IA4100	1.5 Amp

AC to DC
PoE Power (DC)
Low Voltage12- 24V AC - DC

27 CB 2-e with Public Address Wiring Diagram

POWER SUPPLY

MULTI-TAP

• Multi-Tap LV fuses are generally 2A GMA

12V DC

24V AC

120V, 240V, 277V, 347V AC @ 250V A

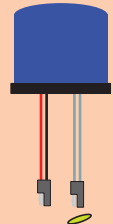**POWER MANIFOLD**

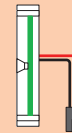Common or Neg

12-24V AC or DC

phone specific
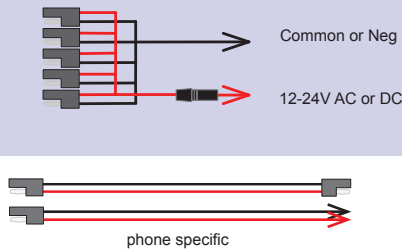
NOTE: Use the supplied modular inter-connects to link the unit's various powered devices.
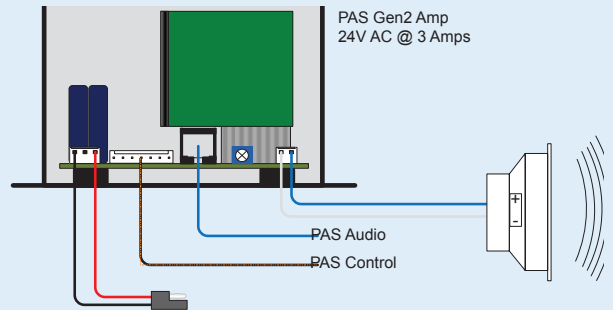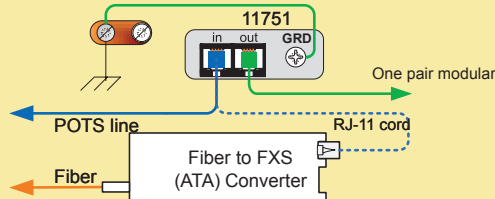
LIGHTING

Beacon/Strobe
12-24V AC or DC
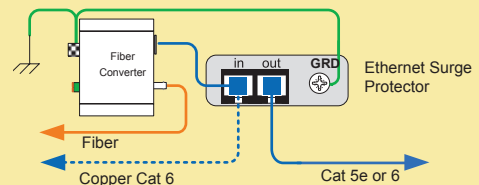
LED Faceplate Light
12-24V AC or DC

CB 2-E with Public Address SPEAKER/AMP

PAS Gen2 Amp
24V AC @ 3 Amps

PAS Audio

PAS Control

IA4100 COMMUNICATION CONNECTIONS

11751

in   out   GRD

One pair modular

POTS line

RJ-11 cord

Fiber to FXS (ATA) Converter

Fiber

IP5000 COMMUNICATION CONNECTIONS

Fiber Converter

in   out   GRD

Ethernet Surge Protector

Fiber

Copper Cat 6

Cat 5e or 6

IA4100 SPEAKERPHONE

ACC POWER   BATT   AUX INPUTS   OUTPUT   PAS CONTROL   PAS AUDIO

+ - G   + -

1 2 3
1   2 N.O.
3   4 N.C.

12-24V AC or DC standard

Chassis Ground

Aux Input 1

Aux Input 2

Audio Output

Phone Line

Battery 12V @ 2.0Ahr

IP5000 SPEAKERPHONE

PWR BATT   LAN PoE   LAN 1   LAN 2   AUX PORTS   PAS CONTROL   PAS AUDIO

12-24V AC or DC standard

Aux Output 1

Aux Output 2

Aux Input 1

AUDIO OUTPUT

Battery 12V @ 2.0Ahr
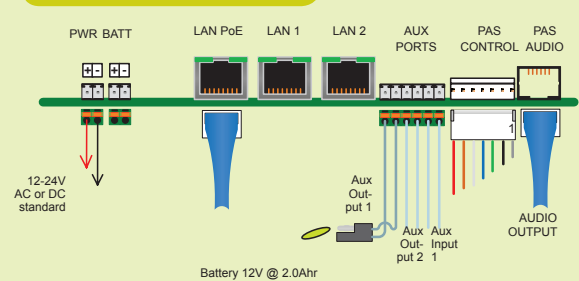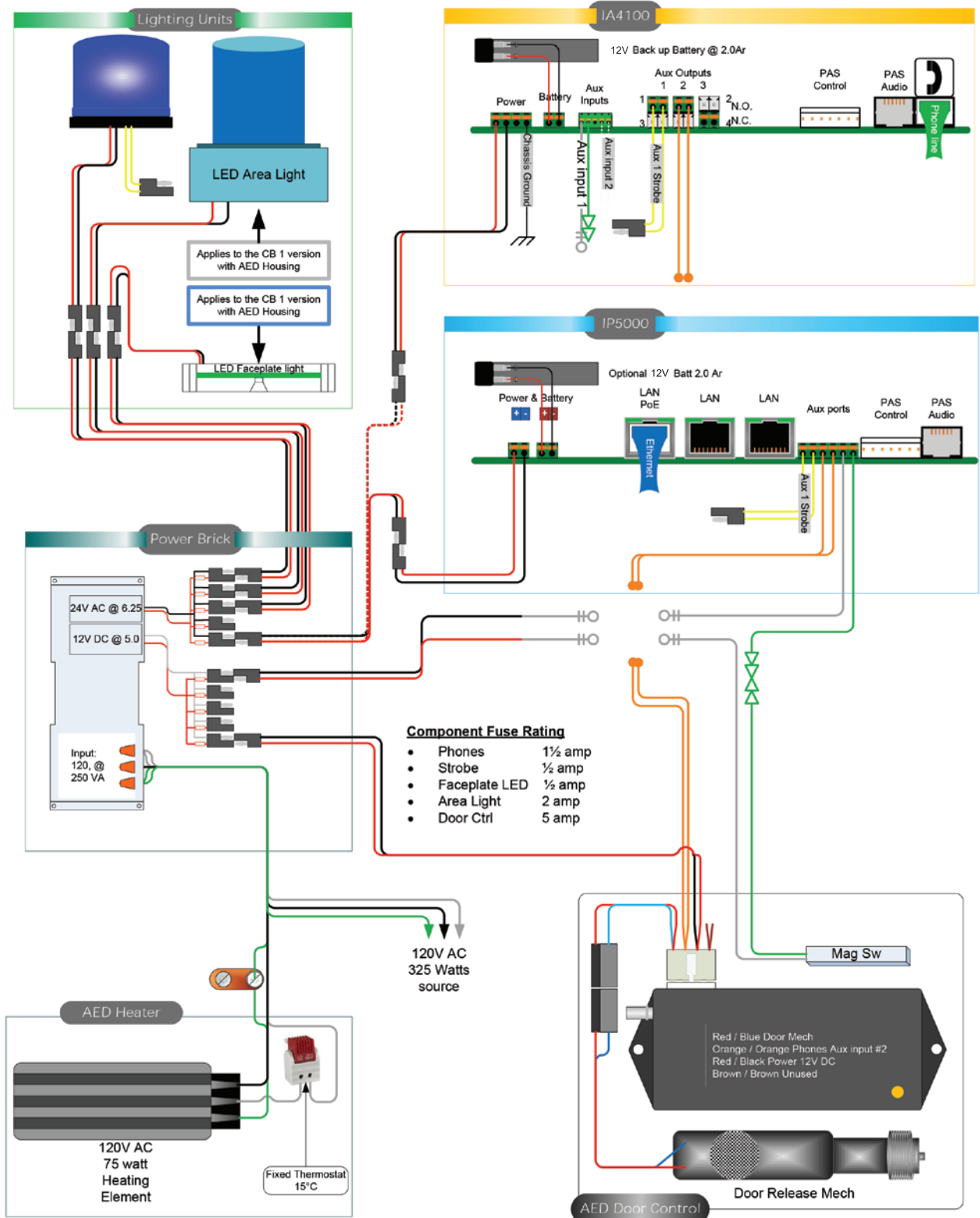
Product wiring diagram shown reasonably represents current offering and is intended to assist in component identification and service. Earlier product production may have different components and wiring connections. Reference the model and serial number from the unit ID tag and contact manufacturer to confirm replacement part version and availability.

28 CB 2-e with AED Housing Wiring Diagram

Lighting Units

LED Area Light

Applies to the CB 1 version with AED Housing

Applies to the CB 1 version with AED Housing

LED Faceplate light

IA4100

12V Back up Battery @ 2.0Ar

Aux Outputs
1 2 3

Power Battery Aux Inputs

2 N.O.
4 N.C.

PAS Control

PAS Audio

Phone line

Chassis Ground

Aux input 1

Aux input 2

Aux 1 Strobe

IP5000

Optional 12V Batt 2.0 Ar

Power & Battery

LAN PoE

LAN

LAN

Aux ports

PAS Control

PAS Audio

Ethernet

Aux 1 Strobe

Power Brick

24V AC @ 6.25

12V DC @ 5.0

Input: 120, @ 250 VA

Component Fuse Rating

- Phones   1½ amp
- Strobe   ½ amp
- Faceplate LED ½ amp
- Area Light   2 amp
- Door Ctrl   5 amp

120V AC
325 Watts
source

Mag Sw

AED Heater

120V AC
75 watt
Heating
Element

Fixed Thermostat
15°C

Red / Blue Door Mech
Orange / Orange Phones Aux input #2
Red / Black Power 12V DC
Brown / Brown Unused

Door Release Mech

AED Door Control

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 the manufacturer to confirm replacement part version and availability. The information contained herein is subject to change without notice.
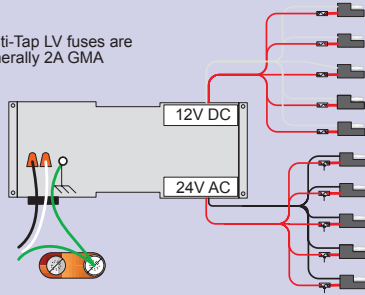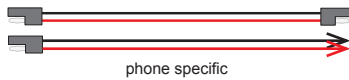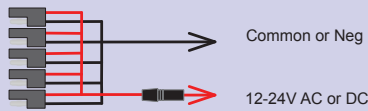
29 CB 2-s Wiring Diagram

POWER SUPPLY

MULTI-TAP

• Multi-Tap LV fuses are generally 2A GMA

12V DC

24V AC

120V, 240V, 277V, 347V AC @ 250V A

POWER MANIFOLD
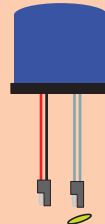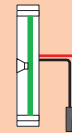
Common or Neg

12-24V AC or DC

phone specific

NOTE: Use the supplied modular inter-connects to link the unit's various powered devices.
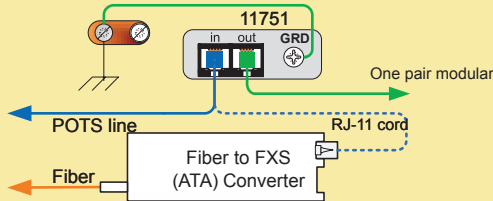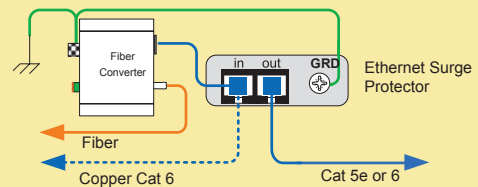
LIGHTING

Beacon/Strobe
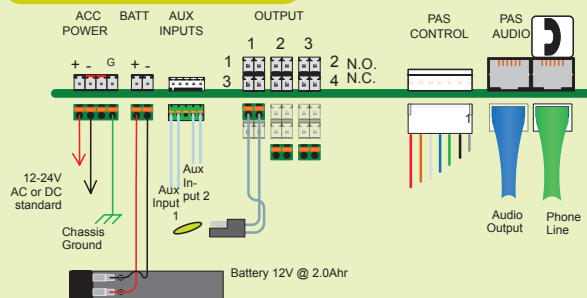12-24V AC or DC

LED Faceplate Light 12-24V AC or DC

IA4100 COMMUNICATION CONNECTIONS

11751

in   out   GRD

One pair modular

POTS line

RJ-11 cord

Fiber to FXS (ATA) Converter

Fiber

IP5000 COMMUNICATION CONNECTIONS

Fiber Converter

in   out   GRD

Ethernet Surge Protector

Fiber

Copper Cat 6

Cat 5e or 6

IA4100 SPEAKERPHONE

| ACC POWER | BATT | AUX INPUTS | OUTPUT | | PAS CONTROL | PAS AUDIO |

+ - G   + -

1 2 3
1
3   2 N.O.
         4 N.C.

1

12-24V AC or DC standard

Aux Input 1

Aux Input 2

Chassis Ground

Audio Output

Phone Line

Battery 12V @ 2.0Ahr

IP5000 SPEAKERPHONE

PWR BATT   LAN PoE   LAN 1   LAN 2   AUX PORTS   PAS CONTROL   PAS AUDIO

1

12-24V AC or DC standard
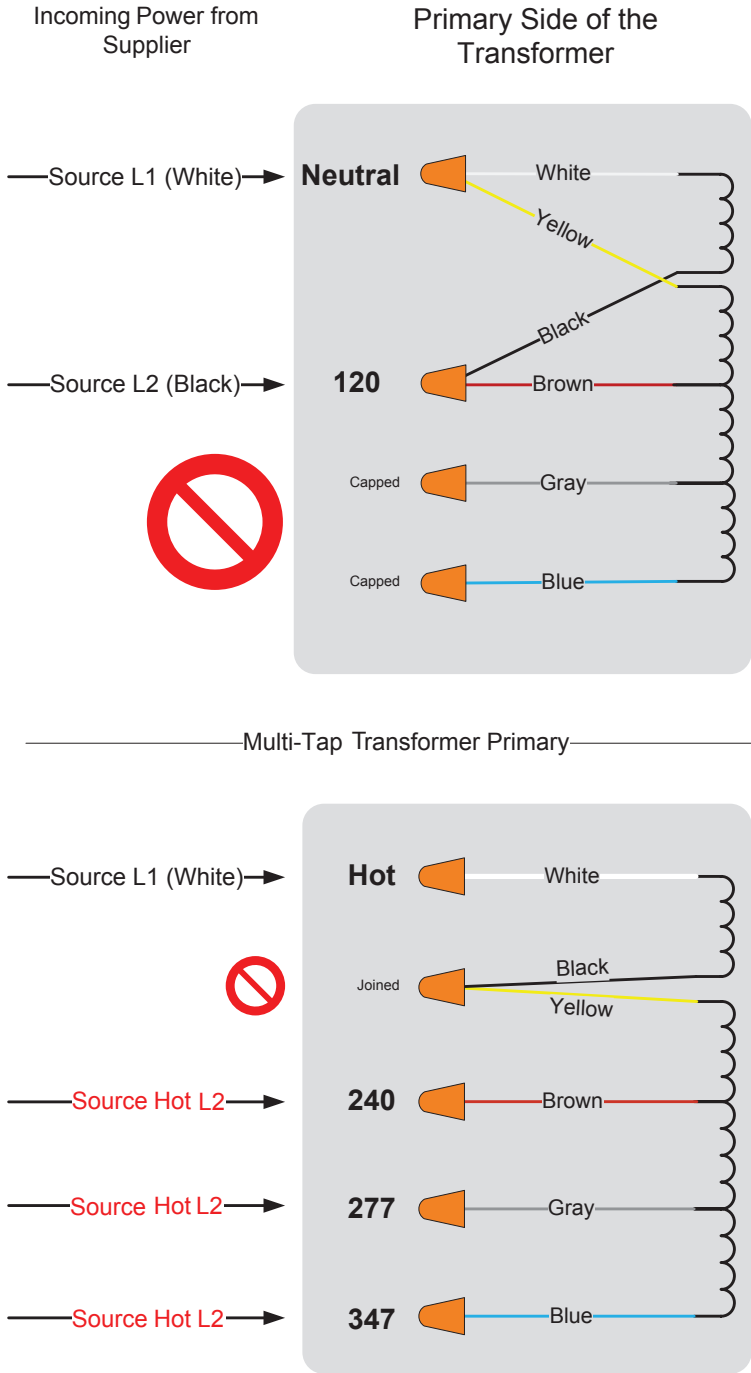
Aux Output 1

Aux Output 2

Aux Input 1

AUDIO OUTPUT

Battery 12V @ 2.0Ahr
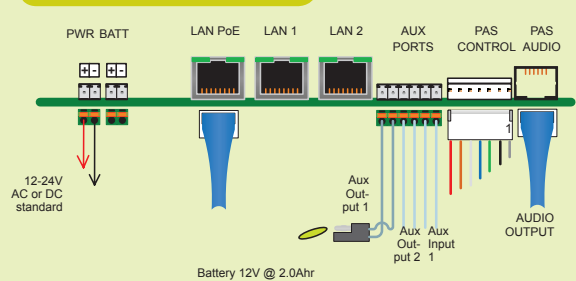
Product wiring diagram shown reasonably represents current offering and is intended to assist in component identification and service. Earlier product production may have different components and wiring connections. Reference the model and serial number from the unit ID tag and contact manufacturer to confirm replacement part version and availability.
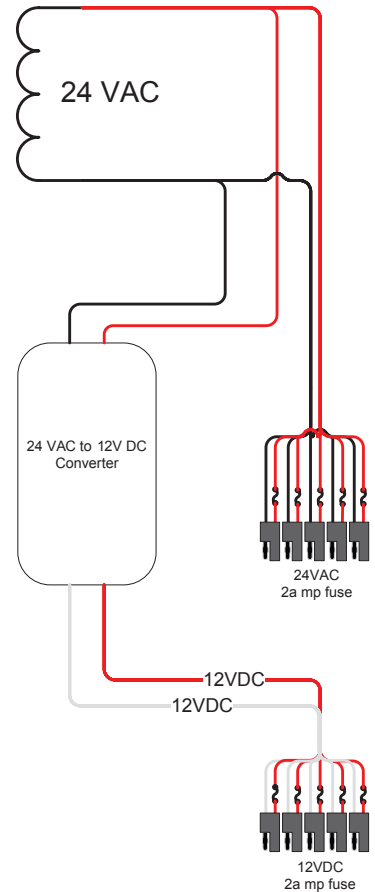
30 Multi Tap Transformer Wiring

Incoming Power from Supplier

Primary Side of the Transformer

Secondary Side of the Transformer

Source L1 (White) → **Neutral** — White

Yellow

Black

Source L2 (Black) → **120** — Brown

Capped — Gray

Capped — Blue

Primary Volt Amps 250

Secondary Volt Amps 160

ETL – UL _____

24 VAC

24 VAC to 12V DC Converter

24VAC
2a mp fuse

—Multi-Tap Transformer Primary—

Source L1 (White) → **Hot** — White

Joined — Black

Yellow

Source Hot L2 → **240** — Brown

Source Hot L2 → **277** — Gray

Source Hot L2 → **347** — Blue

12VDC
12VDC

12VDC
2a mp fuse

Low Voltage Outputs
5 AmpsA C
5 AmpsD C

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

31 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

Level	Stars
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.

32 Locating Unit Serial Numbers

Remove the speakerphone faceplate with the special security bit. The serial number will be listed on the manufacturer's label located inside the unit (1).
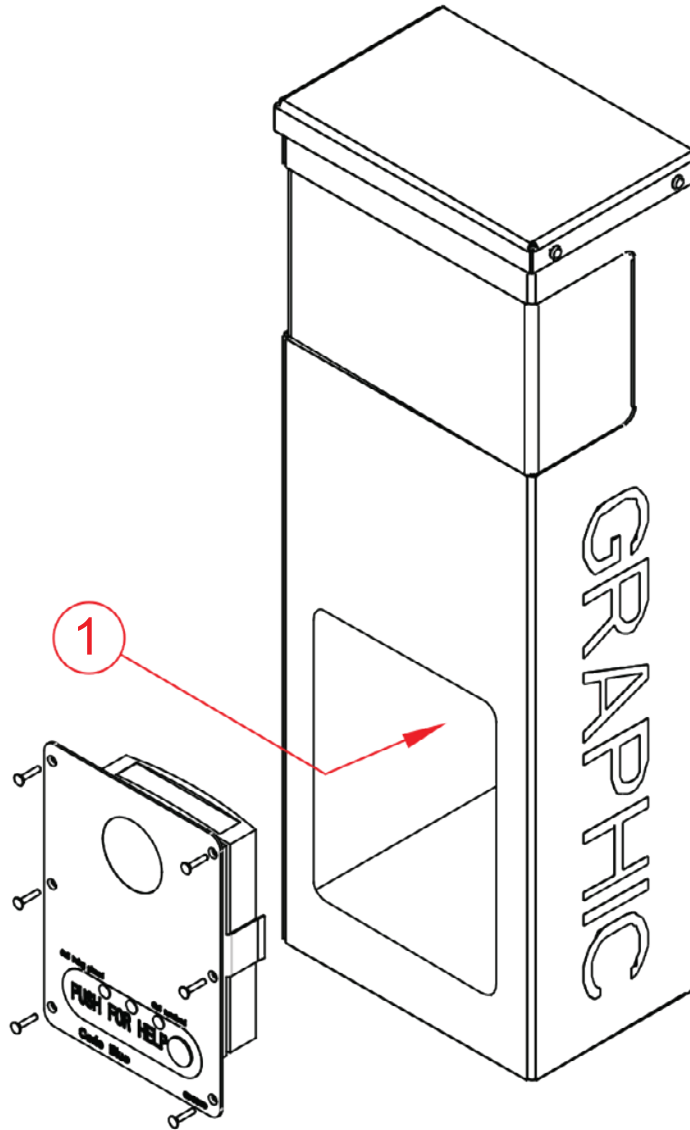
33 Warranty

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

In Case of Breakdown

In case of system breakdown, discontinue use and contact :

Tech Support at **ts@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**.

34 Download Information

Main Location: www.codeblue.com/resources

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

1. Centry® Administrator Guide: www.codeblue.com/resources/guides
2. CB 1 Series Administrator Guide: www.codeblue.com/resources/guides
3. CB 2 Series Administrator Guide: www.codeblue.com/resources/guides
4. CB 4 Series Administrator Guide: www.codeblue.com/resources/guides
5. CB 5 Series Administrator Guide: www.codeblue.com/resources/guides
6. CB 6 Series Administrator Guide: www.codeblue.com/resources/guides
7. CB 9 Series Administrator Guide: www.codeblue.com/resources/guides
8. Stainless Steel Maintenance Guide: www.codeblue.com/support
9. IA4100 Administrator Guide: www.codeblue.com/resources/guides
10. IA3100 to IA4100 Upgrade Installation: www.codeblue.com/support/faq
11. IP5000 Administrator Guide: www.codeblue.com/resources/guides
12. IP1500/2500 Administrator Guide: www.codeblue.com/resources/guides
13. IA500 Administrator Guide: www.codeblue.com/resources/guides
14. ToolVox® Administrator Guide (prior to Aug. 2014): www.codeblue.com/resources/guides
15. ToolVox X3 Administrator Guide: www.codeblue.com/resources/guides
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. IP1500 and IP2500 Firmware: www.codeblue.com/support/firmware
20. IP5000 Versions 1.X & 2.X Firmware: www.codeblue.com/support/firmware

For Legacy IA3100 Information:

www.codeblue.com/resources/guides

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