

IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

When using electrical equipment, basic safety precautions should always be followed including the following:

- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations, if applicable.
- Do not mount near gas or electrical heaters.
- Do not use outdoors.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.
- Allow battery to charge for 24 hours before first use.

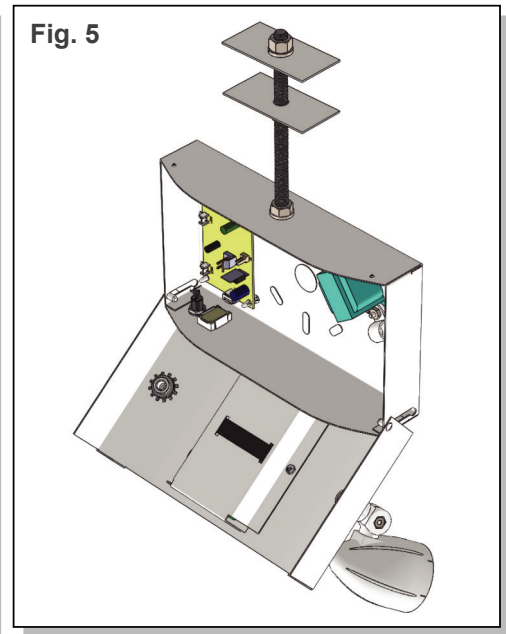
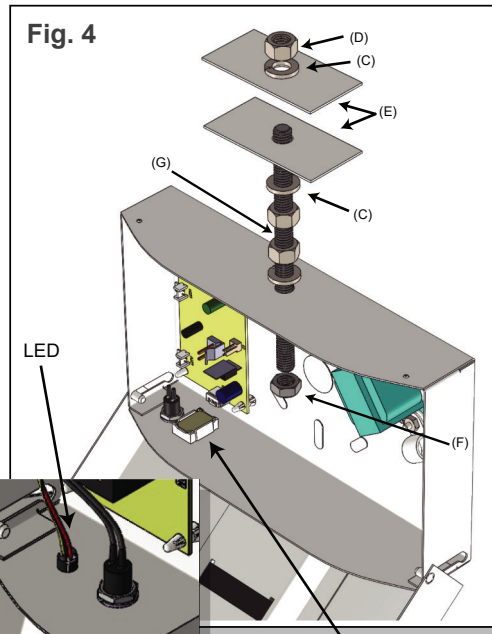
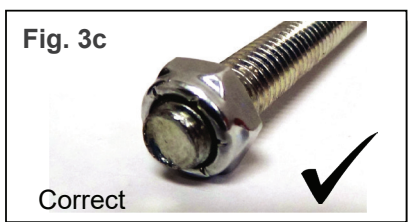
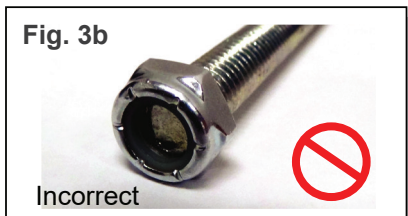
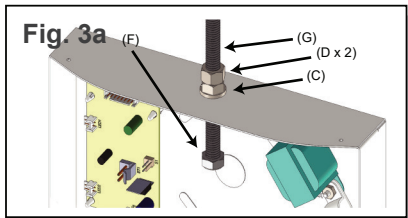
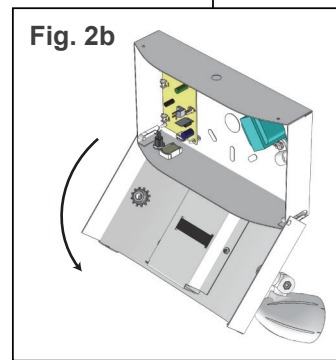
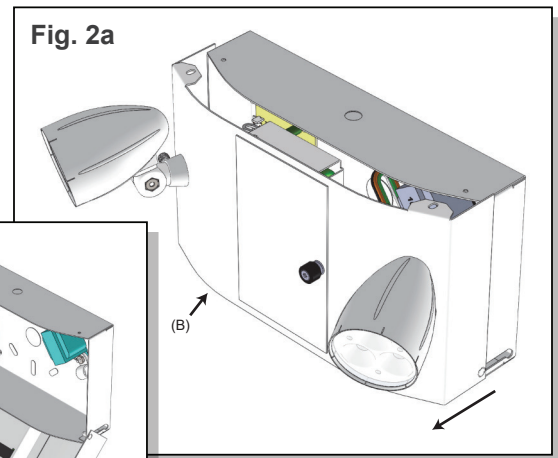
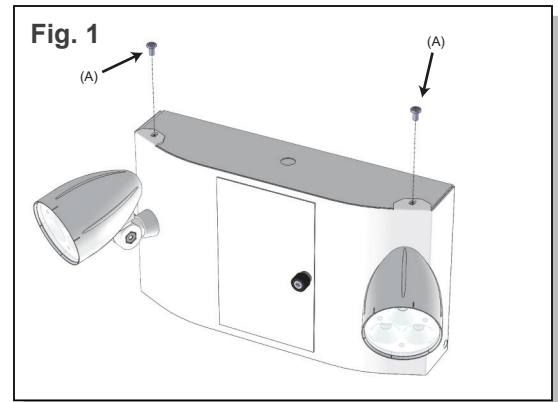
SAVE THESE INSTRUCTIONS!

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Installation

1. Remove the (2) 6-32 X 1/4" screws (A) securing the front cover and set aside. (Fig. 1)
2. Slide the front cover (B) forward and flip down. (Fig. 2a, b)
3. Stem mount option:
 - a. Thread 2 nuts (D) approximately 1/2" onto the threaded rod (G). Add (1) lock washer (C). Insert the threaded rod (G) into the top of the enclosure, as shown in Fig. 3a.
 - b. Thread the lock nut (F) in place within the enclosure, as shown.

Note: Must thread lock nut (F) in place correctly to avoid failure. See Figures 3b and 3c.
 - c. Once the locknut (F) is securely in place, back up the top nut (D) to its appropriate position. Tighten the bottom nut (D) securely in place on top of enclosure.
 - d. Guide the second lock washer (C) onto the threaded rod (G). (Fig. 4)
 - e. Guide the (2) mounting plates (E) onto the threaded rod (G).
 - f. Thread the third lock washer (C) and third nut (D) onto threaded rod (G).
 - g. Adjust the mounting brackets to the desired spacing and tighten the nuts. (Fig. 5)



Numeric Display (See page 4 for display information)

Installation, Continued

- Remove the desired knockouts on the back of the enclosure and mount to the J-box using the hardware supplied with the J-box.
- Make electrical connections. All electrical connections should be made inside the J-box. Make electrical connection as follows: (Fig. 6)

120VAC

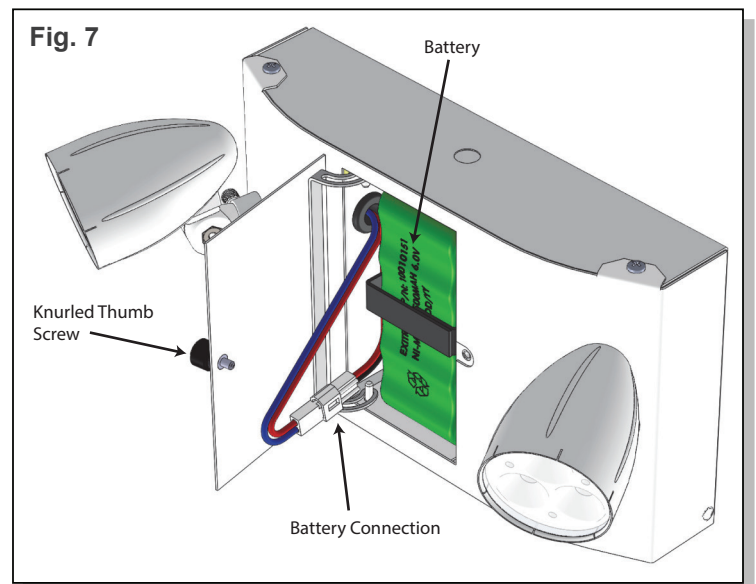
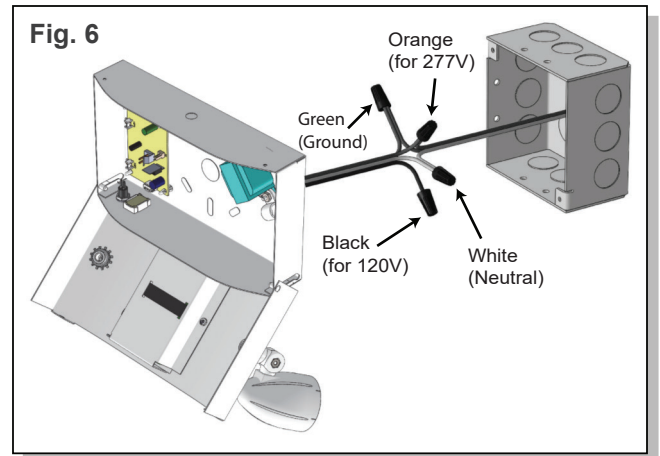
White - Common
Black - 120VAC
Green - Ground

277VAC

White - Common
Orange - 277VAC
Green - Ground

Note: Cap unused leads to prevent shorting.

- Flip the cover up and re-secure using (2) 6-32 X 1/4" screws.
- Open the battery cover by turning the thumb screw counterclockwise.
- Connect the battery, as shown, then secure the connector at the bottom left corner of the battery compartment (Fig. 7).
- Close the door and secure with the thumb screw.



Standard Operation Instructions

- Energize un-switched AC power to the fixture.
- Verify the indicator LED or numeric display is illuminated.
- Press the test button and verify the lamps turn on.

Note: If the lamps do not illuminate, allow the fixture to charge for 30 min.

- Leave AC connected for the rated charge time prior to performing any full-length test.
- Refer to the **Self-Test/Self-Diagnostics (G2)** section for operation.

Self-Test/Self-Diagnostics (G2) with LED Indicator

IMPORTANT: Once all emergency lamps have been connected to the unit equipment, apply normal AC power and charge for 48 hours.

For units equipped with G2 and the tri-color LED indicator: Following installation and after AC power has been supplied, charge for 48 hours, then press and hold the test button until the LED indicator turns orange. This calibrates the unit equipment for the proper load.

CAUTION: This equipment provides reduced current levels when higher voltage loads are connected. The derangement signal requires calibration to ensure proper operation.

Operation

The purpose of this option is to provide Self-testing and Self-diagnostic capabilities to the emergency unit. At predetermined intervals, the emergency unit will automatically switch into battery mode. Refer to the **Automatic Self-Test Feature** section below for timing details. The emergency unit will also perform various Self-diagnostic tests to determine if there are any faults. Visual signaling will alert maintenance personnel to a fault of the emergency unit electronics, battery, and/or battery charger. The circuitry continuously monitors the operating condition of the emergency unit and battery charging circuit/battery supply voltage. Refer to the **LED Indicator** section below for fault reporting details.

Automatic Self-Test Feature

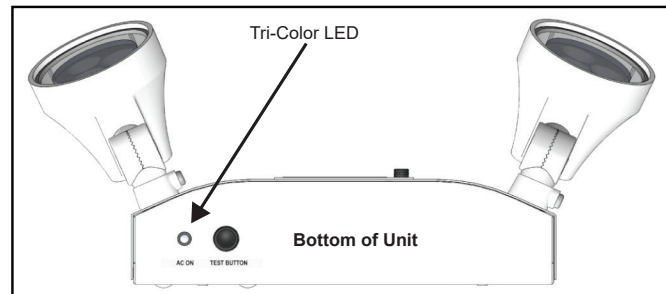
- The unit equipment will automatically switch to battery mode every month for a period of 1 minutes.
- The unit equipment will automatically switch to battery mode every 6 months for a period of 30 minutes.
- The unit equipment will automatically switch to battery mode every year for a period of 90 minutes.

LED Indicator

The LED indicator of the emergency unit will display a visual signal indicating the status of the unit. Refer to Table 1 for units equipped with a tri-color LED indicator.

Table 1 - Tri-Color LED Indicator

LED Indication	LED Color	Unit Condition	Comment
Steady	Green	Float Charge	Batt Fully Charged
Pulse	Green	Hi-Rate Charge	Batt Under High-Rate Charge
Steady	Red	Low Batt Voltage	Replace Battery
Pulse	Red	Emer Lamp Failure	Replace Damaged or Missing Lamps
Steady	Orange	No AC Power Charge Failure 1 Minute Test	Check AC Connection Replace Transformer 1 Min Test Every Month
Pulse	Orange	Batt Disconnected	Check Batt Connections
LED Color	Red/Green	30 Minute Test	30 Min Test Every 6 Months



Test Button Features

MANUAL TEST – Pressing the test button will switch the unit into battery mode for a set amount of time. The desired length of the test is determined by the length of time that the test button is pressed.

- Pressing the test button once will switch the unit into battery mode for a period of 2 seconds.
- Pressing and holding the test button until the LED indicator turns orange will switch the unit into battery mode for a period of 30 minutes.
- Pressing and holding the test button until the LED indicator flashes red/green will switch the unit into battery mode for a period of 90 minutes.

Use in accordance with local building codes.

Self-Test/Self-Diagnostics (G2) with Numeric Display

IMPORTANT: Once all emergency lamps have been connected to the unit equipment, apply normal AC power and charge for 48 hours.

CAUTION: This equipment provides reduced current levels when higher voltage loads are connected. The derangement signal requires calibration to ensure proper operation.

Operation

The purpose of this option is to provide Self-testing and Self-diagnostic capabilities to the emergency unit. At predetermined intervals, the emergency unit will automatically switch into battery mode. Refer to the **Automatic Self-Test Feature** section below for timing details. The emergency unit will also perform various Self-diagnostic tests to determine if there are any faults. Visual signaling will alert maintenance personnel to a fault of the emergency unit electronics, battery, and/or battery charger. The circuitry continuously monitors the operating condition of the emergency unit and battery charging circuit/battery supply voltage. Refer to the **Numeric Indicator** section below for fault reporting details.

Automatic Self-Test Feature

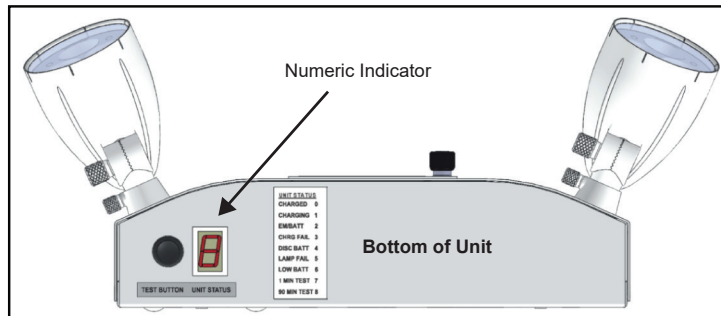
- The unit equipment will automatically switch to battery mode every month for a period of 1 minute.
- The unit equipment will automatically switch to battery mode every year for a period of 90 minutes.

Numeric Indicator

The numeric indicator of the emergency unit will display a visual signal indicating the status of the unit. Refer to Table 2 for units equipped with a numeric indicator.

Table 2 - Numeric Indicator

STATUS LEDGE	Condition
CHARGED 0	Float charging
CHARGING 1	Hi rate charging
EM/BATT 2	Discharging
CHRG FAIL 3	Charger failure
DISC BATT 4	Battery not connected
LAMP FAIL 5	Lamp failure
LOW BATT 6	Low battery voltage
1 MIN TEST 7	Running 1 min test
90 MIN TEST 8	Running 90 min test



Test Button Features

MANUAL TEST – Pressing the test button will switch the unit into battery mode for a set amount of time. The desired length of the test is determined by the length of time that the test button is pressed.

- Pressing and holding the test button until the numeric indicator shows “7” will switch the unit into battery mode for a period of 1 minute.
- Pressing and holding the test button until the numeric indicator shows “8” will switch the unit into battery mode for a period of 90 minutes.

Use in accordance with local building codes.