WARNING: RISK OF FIRE AND ELECTRICAL SHOCK. FIXTURE MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN ONLY IN ACCORDANCE WITH NATIONAL, LOCAL BUILDING AND ELECTRICAL CODES. DISCONNECT POWER AT ELECTRICAL PANEL BEFORE SERVICING.

INSTALLATION INSTRUCTIONS

IMPORTANT SAFEGUARDS

When using electrical equipment, always follow basic safety precautions:

1. Confirm the area is non-hazardous before installing or servicing the unit.
2. Disconnect electrical power before and during installation.
3. Disconnect power and allow the unit to cool before opening for maintenance or service.
4. Do not install in areas where the marked operating temperature (T-Code) exceeds the ignition temperature of the hazardous atmosphere.
5. Keep the unit tightly closed during operation.
6. Do not mount near gas or electric heaters.
7. Avoid any condition that may cause short-circuiting.
8. Mount equipment at a location and height where it is not easily accessible to unauthorized personnel.
9. Do not use accessories or equipment not approved by the manufacturer.
10. Use this equipment only as intended by the manufacturer.
11. Servicing must be performed only by qualified personnel.

WALL MOUNT – INSTALLATION WITH MOUNTING BRACKETS (1-Face Units)

1. Disconnect the branch circuit supply before beginning installation.
2. Attach the two surface-mounting brackets to the backplate using the four #7-21 x 3/8" flat-head screws provided (see Figure 2).
3. Position the housing on the wall and mark four mounting hole locations using the bracket holes as a template. Drill holes, insert the four screw anchors with a mallet, and set in place (see Figure 2).
4. Remove the six plastic caps, six screws, and twelve O-rings from the EXIT lens and set aside.
5. Separate the lens and EXIT panel assembly (three pieces) from the housing.
6. Feed the AC supply leads through the hub assembly into the EXIT sign enclosure.
7. Refer to the Wiring Diagrams section (page 4) and make electrical connections inside the enclosure using Listed wire connectors rated for the number and size of conductors. Follow NEC and CEC requirements for hazardous locations. Cap any unused lead (red or black). Neatly route wires between the interior frame and outer enclosure. Complete the battery connection for units with batteries.
8. Remove one or both directional indicators from the EXIT panel, as required.
9. Reinstall the lens and EXIT panel assembly using the six plastic caps, six screws, and twelve O-rings removed in step 4. Tighten screws only until O-rings are compressed to ensure a proper seal. Do not overtighten, as this may damage the lens and compromise sealing.
10. Secure the EXIT sign to the wall surface with four #1/4-8 x 1-1/4" pan-head mounting screws and the previously installed screw anchors.
11. Restore power. For units with batteries, allow 24 hours of charging before testing emergency operation.

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PENDANT MOUNT INSTALLATION (2-Face Units)

1. Disconnect the branch circuit supply before beginning installation.
2. Remove the six plastic caps, six screws, and twelve O-rings from the EXIT lens and set them aside.
3. Separate the lens and EXIT panel assembly (three pieces) from the housing.
4. Install the conduit (pendant) in the desired location. Feed the AC supply wires through the pendant, then into the EXIT sign enclosure via the hub assembly.
5. Refer to the Wiring Diagrams section (page 4) and complete electrical connections inside the enclosure using Listed wire connectors rated for the number and size of conductors. Follow NEC and CEC requirements for hazardous locations. Cap any unused lead (red or black). Neatly route wires between the interior frame and outer enclosure. Complete the battery connection for units with batteries.
6. Remove one or both directional indicators from the EXIT panels, if required.
7. Reinstall the lens and EXIT panel assembly using the six plastic caps, six screws, and twelve O-rings removed in step 2. Tighten screws only until O-rings are compressed to create a proper seal. Do not overtighten, as this may damage the lens and compromise sealing.
8. Restore power. For units with batteries, allow 24 hours of charging before testing emergency operation.

OPERATION & TESTING

In accordance with the National Electrical Code (NEC) and NFPA 101 Life Safety Code, the following tests are required:

1. **Monthly Test** — Test the unit for a minimum of 30 seconds. Place and hold the magnet near the magnetic test switch on the fixture (see Figure 3) to perform this test.

2. **Annual Test** — Once every 12 months, perform a full 90-minute test as required by UL standards. Disconnect power to the unit and allow it to operate in emergency mode. The EXIT sign must remain illuminated for at least 90 minutes.

LED STATUS INDICATOR KEY and TROUBLESHOOTING

LED status	Indication	Action to take
Red	1. Battery connection is not made. 2. Battery has been diagnosed as dead or defective after 24 hours of continuous charging with AC power supplied.	1. Make connection; or if battery is connected, disconnect battery for eight seconds and then reconnect. 2. Replace the battery.
Green	Battery is connected, AC power has been supplied and fixture is in charging state.	This is the normal state. No action required.
Unlit	AC power has not been supplied or unit is in EM mode.	Supply AC power or wait until utility power is restored.

MAINTENANCE

Caution: Always turn off AC power to the equipment before servicing. Servicing should be performed only by a qualified service technician. Use only MANUFACTURER supplied replacement parts.

BATTERY: The battery supplied requires no maintenance. However, it should be tested periodically and replaced when it no longer operates the connected unit for the dura on of a 30-second or 90-minute test.

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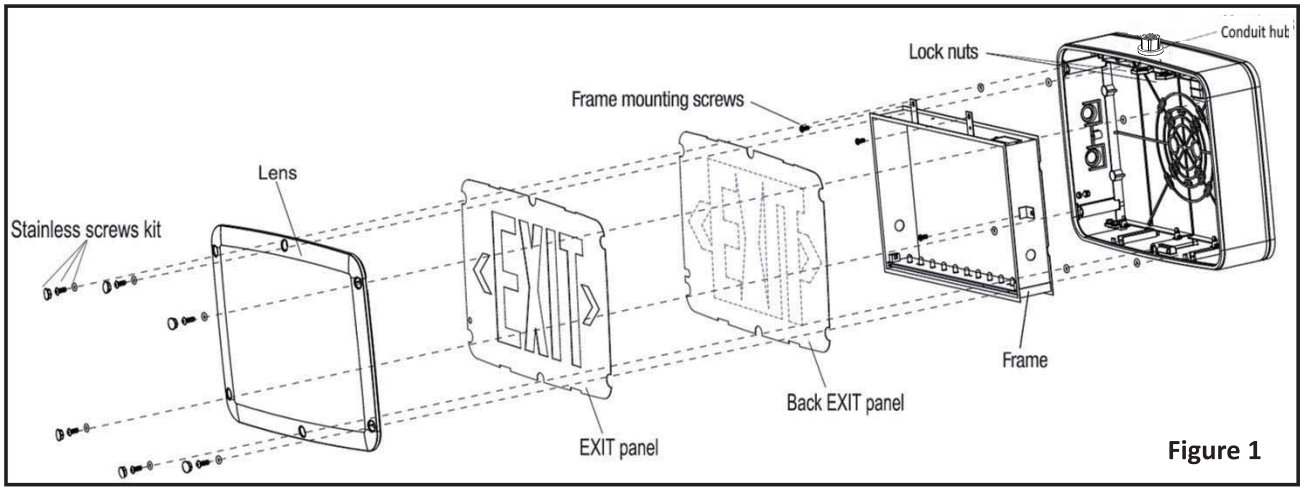


Figure 1

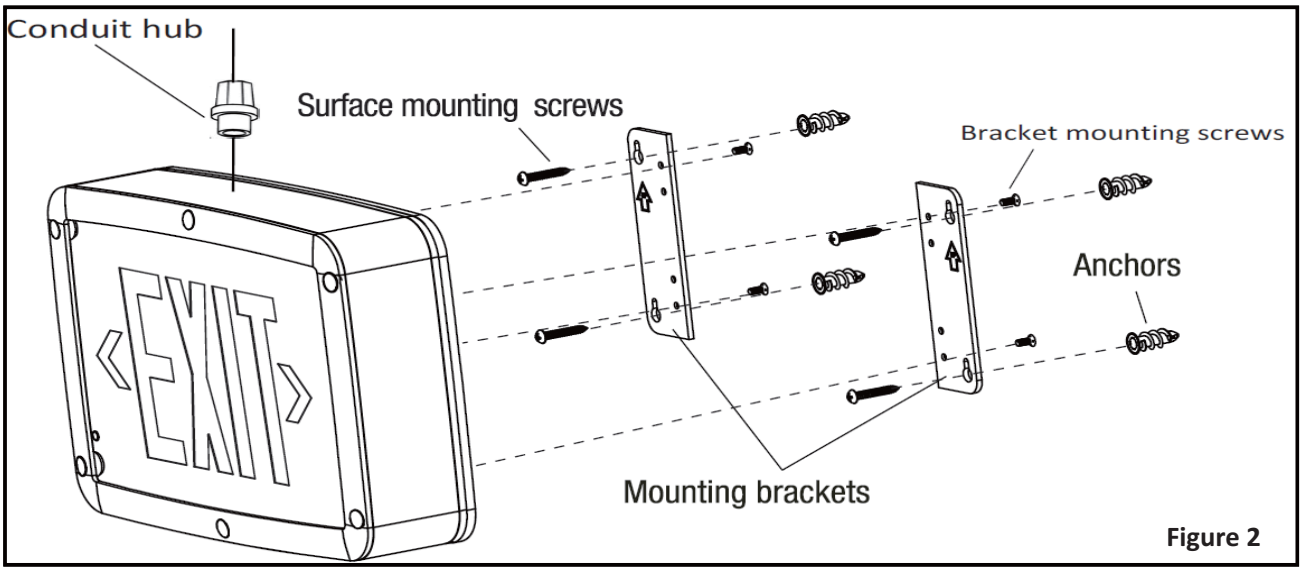
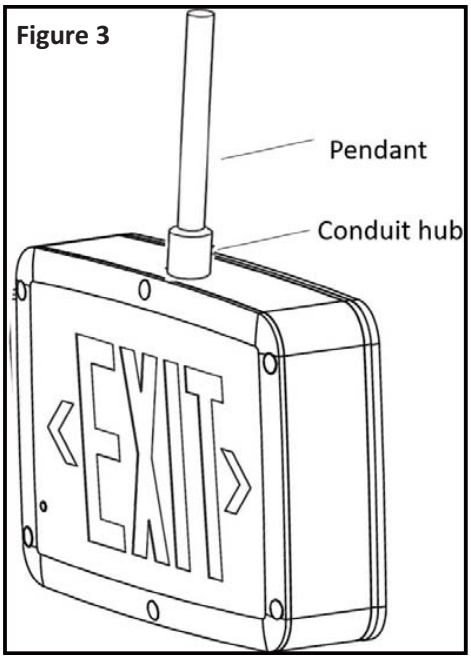
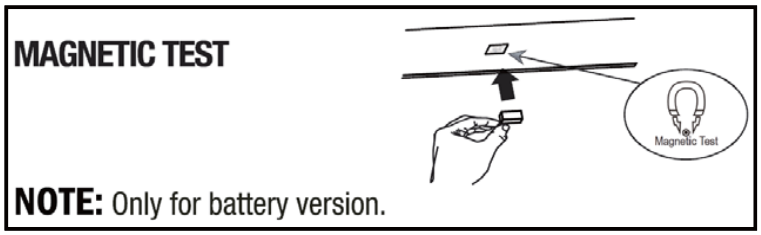


Figure 2





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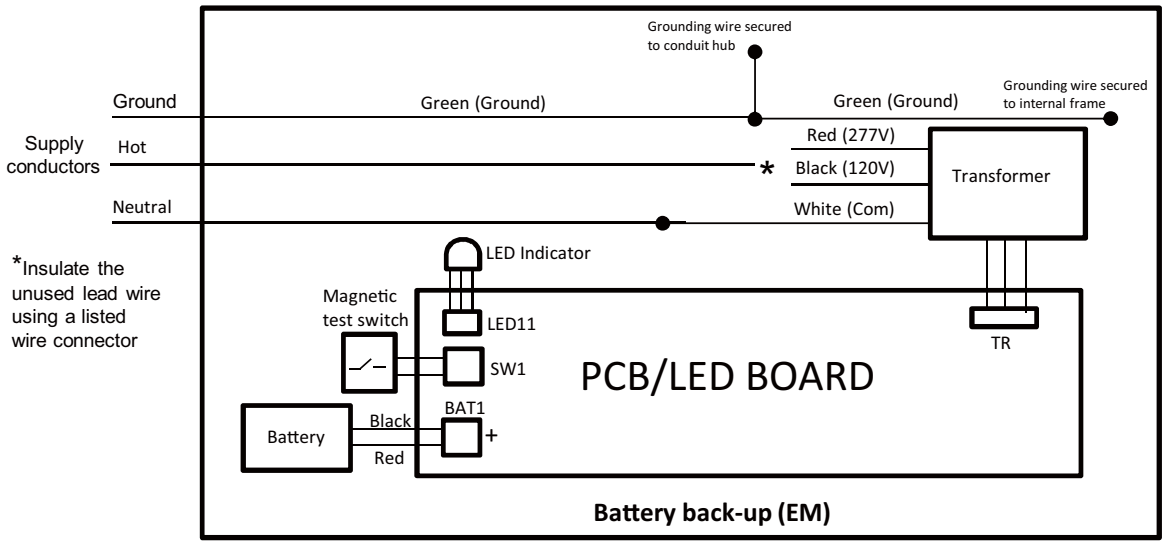
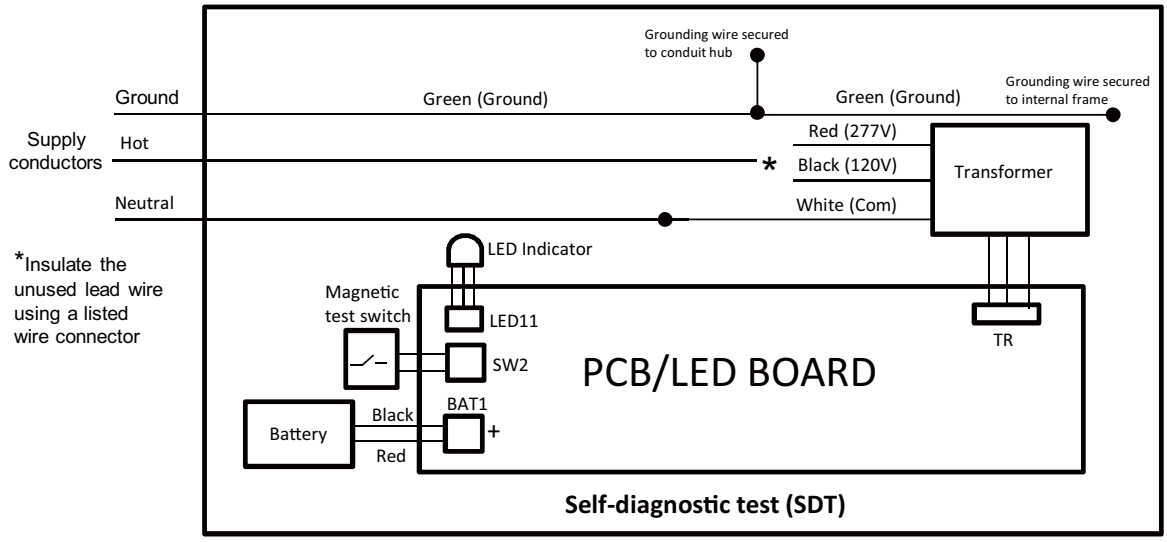
WIRING DIAGRAMS

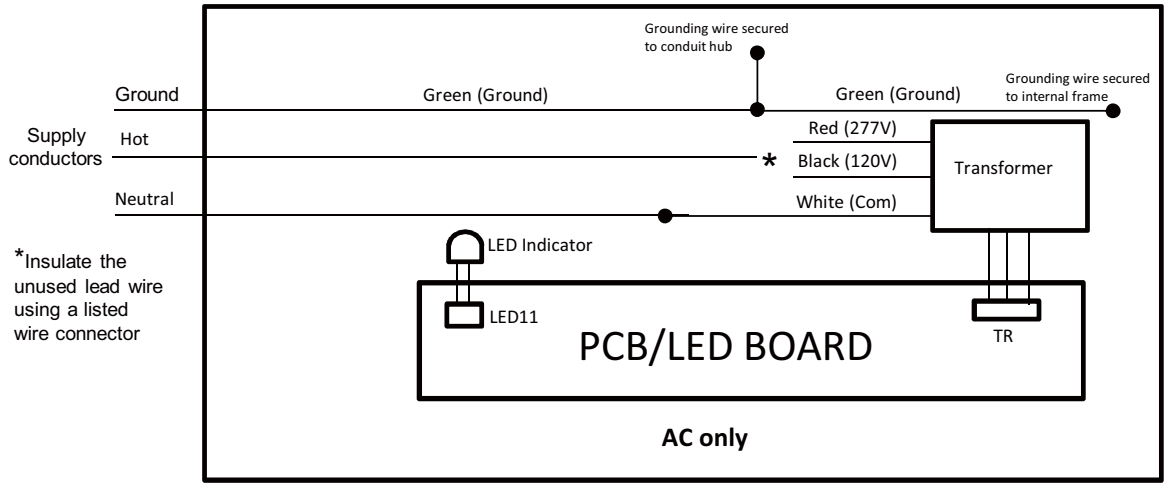
Warning: Insulate the unused lead wires, Red (277V) or Black (120V) from the transformer, using Listed wire connectors suitable for the number and size of the conductors



Battery back-up (EM)



Self-diagnostic test (SDT)



AC only

LED INDUSTRIAL EXIT SIGN – SELF-DIAGNOSTIC (SDT) OPERATING INSTRUCTIONS

Introduction

Once the unit is properly installed according to the installation instructions and AC power is supplied, the EXIT sign will illuminate. At the same time, the dual-color LED indicator will activate, automatically initiating the self-diagnostic test function. The LED indicator displays the current operating status of the unit. Refer to the Fault Indication section for details. The LED indicator will be OFF when the unit is operating in Emergency Mode.

Self-Diagnostic Service

The self-diagnostic function is factory preset and requires no field adjustment. This automatic feature performs the following tests:

- Continuous monitoring of battery and LED(s), including battery charging status, disconnection, and failure, as well as LED strip failures.
- Monthly test: A 30-second discharge once every 30 days, after AC power has been supplied for a minimum of 24 hours (per NFPA requirements).
- Semi-annual test: A 30-minute discharge once every 180 days, after AC power has been supplied for a minimum of 24 hours.
- Annual test: A 90-minute discharge once every 365 days, after AC power has been supplied for a minimum of 24 hours (per NFPA requirements).

Fault Indication

Function	LED Indication
Battery fully charged	STEADY Green
Unit in test mode	Flashing Green
Battery Recharge	Red and Green (flashing alternatively)
Battery Disconnected	STEADY Red
Battery Recharge Failure*	Flashing Red (‘4’ times)
Battery Failure**	Flashing Red
LED Strip Failure	Flashing Red (‘2’ times)

** A battery recharge failure is more likely seen after a monthly or annual auto-discharge.*
*** A battery failure is more likely seen when the unit goes into a monthly/annual discharge test and/or fails to run the LED strip for the designated amount of time in Test/Emergency mode.*

Manual Testing

This unit can be manually tested using the magnetic test switch. To initiate a test:

1. Place the supplied magnet near the section marked “Magnetic Test” on the unit, then pull it away at least 3 cm. This will start a 30-second discharge test.
2. To interrupt the test, repeat the process by placing the magnet near the same section and pulling it away.
3. To reset the unit, place and hold the magnet in position for 6 seconds, then pull it away.

Operation

- During a power failure, the LED strip automatically switches to Emergency Mode and remains illuminated for a minimum of 90 minutes.
- Before performing a manual test, allow the battery to charge for at least 24 hours.
- In Test Mode, the LED strip enters a simulated Emergency Mode and the LED indicator will flash Green. After the 30-second test period, the LED strip will remain on.