

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

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

1. Do not use outdoors.
2. Do not let power supply cords touch hot surfaces.
3. Do not mount near gas or electrical heaters.
4. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
5. Use caution when servicing batteries—when applicable. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or eyes, flush acid with fresh water and contact a physician immediately.
6. 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.
7. Do not use this equipment for other than intended use.
8. Servicing of this equipment should be performed by qualified service personnel only.
9. Disconnect AC power supply before servicing.
10. Unpack and check for concealed transit damage.
11. Report any transit damage to delivering carrier and file claim.



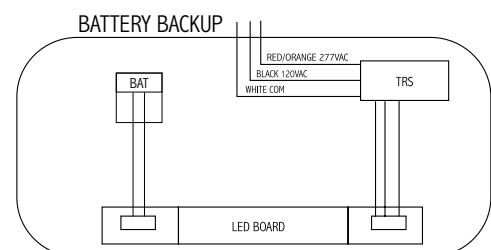
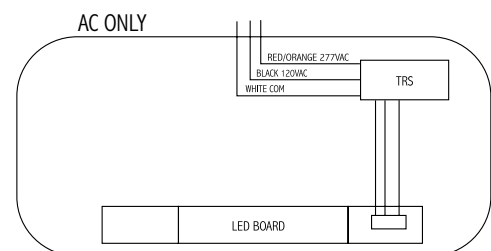
SAVE THESE INSTRUCTIONS!

WARNING: MAKE SURE THAT POWER IS OFF BEFORE MAKING ANY ELECTRICAL CONNECTIONS!

- **WHITE:** Return for 120VAC or 277VAC wiring
- **BLACK:** Hot lead for 120VAC wiring
- **RED/ORANGE:** Hot lead for 277VAC wiring

1. Make sure that all wires are carefully tucked away from the cavity behind the plastic insert.
2. Plug the mating connector of the battery to the PC board—when applicable.
3. Unused wires must be capped using enclosed wire nuts.

WIRING DIAGRAMS:

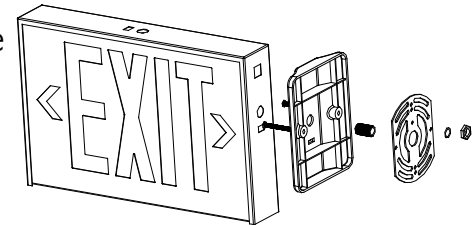
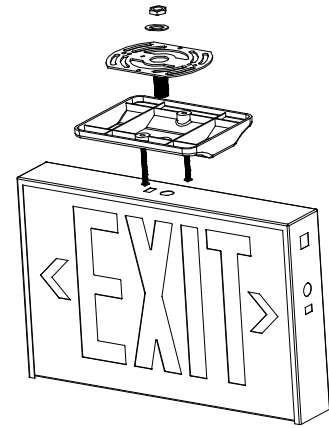


EXIT/STEEL

INSTALLATION INSTRUCTIONS

CANOPY MOUNTING (Top or Side-end mount):

1. Unscrew the face plate cover.
2. Knock out the circular and rectangular hole covers on the top or the side of the sign. Place one of the nuts from threaded stem rod provided in the slot inside the housing just inside of the unit, aligned with the circular hole.
3. Feed the AC supply and ground wire through the nut & hole and out of the sign housing.
4. Secure the canopy J-Box cover to the mount area of the exit sign by inserting it in the rectangular hole and shifting it over to align with the circular hole.
5. Feed AC supply wires through threaded stem and screw stem into nut inside unit. Screw the other nut to the threaded stem on the outer side of the unit and tighten securely to complete the mounting of the canopy to the exit sign.
6. Determine the position the exit needs to be mounted (the way the face needs to be pointed). Use the included round J-Box mounting plate and align the unit with the J-Box.
7. Make connection with the AC supply wires in the J-Box as described in the wiring diagrams section of this instruction.
8. Now mount the sign to the J-Box plate with the (2) #8-32 screws provided and tighten securely.
9. Remove the proper chevron(s) from the EXIT legend(s) if necessary.
10. Attach battery jumper wire (for battery backup unit) to PC board and replace face plate back on unit to complete installation.



FLUSH MOUNTING

1. Unscrew the face plate cover.
2. Remove the center KO and also required KOs on the back plate that will match the J-Box.
3. Route the wires through the center knock-out. Make electrical connections inside the junction box as described in the wiring diagrams section of this instruction sheet. Push wires back against the back of the sign to minimize any of the wires interfering with the illumination of the letters.
4. Now mount the sign to the J-Box using the screws provided.
5. Remove the proper chevron(s) from the EXIT legend(s) if necessary.
6. Attach battery jumper wire (for battery backup unit) to PC board and replace face plate back on the unit to complete installation.

SELF-DIAGNOSTIC TESTING OPTION

1) Introduction

Once the unit is properly installed according to the Installation instruction sheet and AC power is supplied, the EXIT will come ON. The dual color LED indicator will also come ON, automatically initiating the self diagnostic test function. The LED indicator points out the current unit status. A STEADY GREEN on the LED indicator indicates a normal service; BLINKING GREEN indicates that the unit is in testing mode; GREEN/RED FLASHING indicates that the battery is charging; RED (STEADY and BLINKING) would indicate a fault or a service alert. Refer to section 3 – Fault Indication for more details. The LED indicator would be OFF when the unit is in Emergency mode.

2) Self-Diagnostic Service

The self diagnostic function is factory preset without any field adjustment. The automatic self diagnostic feature serves the following tests–

- a. On-line real time monitoring of battery, lamps and LED(s): Identifies battery charging, disconnection and failure along with LED failures.
- b. Self testing and a 30 second discharge once every 30 days (conforming to NFPA code requirements), after AC power has been supplied for a minimum of 24 hours.
- c. Self testing and a 30 minute discharge once every 180 days, after AC power has been supplied for a minimum of 24 hours.
- d. Self testing and a 90 minute discharge once every 365 days, after AC power has been supplied for a minimum of 24 hours.

3) Fault Indication

Function	LED Indication
Unit is in normal mode	STEADY Green
Battery Disconnected	STEADY Red
Battery Recharge	Red and Green (flashing alternatively)
Battery Recharge Failure*	FLASHING Red
Battery Failure**	Red BLINKING '2' times
LED Failure	Red BLINKING '3' times

*A battery recharge failure will come up if the battery is NOT able to recharge within the 24 hrs charging time

**A battery failure will come up if the battery is NOT able to operate the LED strip for the period of a discharge test

4) Manual Testing

This unit also provides for manual testing by pushing the test switch in a specific pattern. The different patterns and the resulting tests are listed in the table below.

Action	Reaction & LED Indication
Push test button once (within 2 seconds)	30-second test; FLASHING Green
Push test button '2' times (within 2 seconds)	30-minute test; Green BLINKING '2' times
Push test button '3' times (within 2 seconds)	90-minute test; Green BLINKING '3' times
Push & Hold test button (3-5 seconds)	System Interruption
Push & Hold test button (more than 6 seconds)	System Reset

4) Operation

During an electrical power failure, the LED sign will transfer into Emergency mode and stay LIT for a minimum of 90 minutes. To test this unit, the battery needs to be charged initially for 24 hours before depressing the test switch (to do manual test). On pressing the test switch, the sign will transfer into a SIMULATED Emergency mode with the LED indicator FLASHING/BLINKING Green. Sign will switch back into AC ON mode after 30 seconds/30 minutes/90 minutes respectively.