

# INSTALLATION INSTRUCTIONS—STEEL LED EXIT SIGN

## 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.



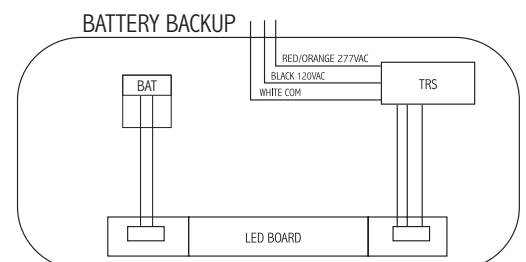
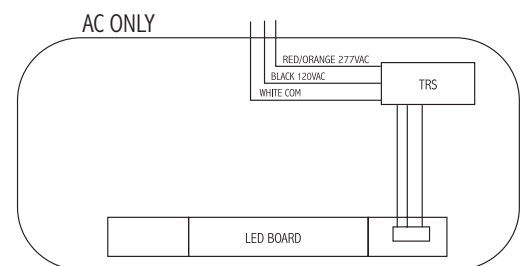
## SAVE THESE INSTRUCTIONS!

**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.

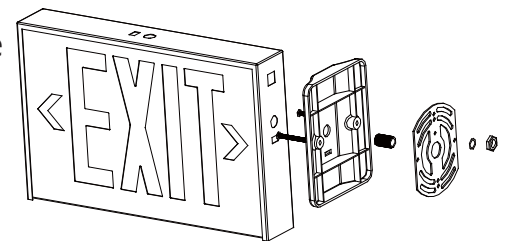
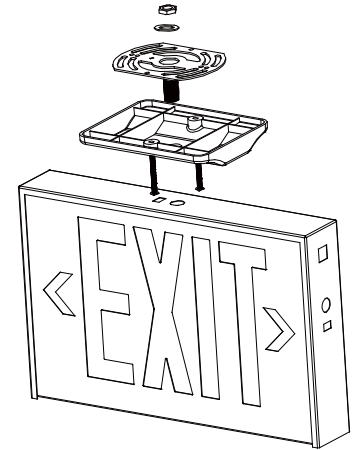
### WIRING DIAGRAMS:



# SAVE THESE 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.

# INSTALLATION INSTRUCTIONS

## INSTRUCTIONS FOR SELF-DIAGNOSTIC TEST:

Once the unit is properly installed according to the installation instruction sheet and AC power supplied, the dual color LED indicator will come ON and the self-diagnostic test function will automatically initiate. Unit will switch into a load calibrating mode for 5-10 seconds to record the connected load. Connected lampheads and EXIT sign (when applicable) will turn ON during this step. After the load calibration has been completed, the LED indicator will show either a RED/GREEN flashing (battery hi-charge mode) OR STEADY GREEN (battery trickle charge mode) status. FLASHING GREEN indicates that the unit is in manual or self-test mode. RED (steady or flashing) indicates a service alert. Refer to the SERVICE INDICATION chart below for more details. The LED indicator would be OFF when the unit is in emergency mode.

During a manually-initiated test OR monthly/annual self-diagnostic test, if the calibrated load is not detected, then the LED indicator will flash THREE or FOUR times, indicating a load failure error. This error code can be reset by pressing and holding the test switch for at least (6) seconds, allowing the unit to calibrate the load again.

## SELF-DIAGNOSTIC SERVICE

The self-diagnostic function is factory preset and performs the following:

- Monitoring of battery, charger, LED board (when applicable) and lamp heads (when applicable).
- Self-testing and a 30-second or longer discharge once every 30 days, after AC power has been supplied for a minimum of 24 hours.
- Self-testing and a 30-minute or longer discharge once every 180 days, after AC power has been supplied for a minimum of 24 hours.
- Self-testing and a 90-minute or longer discharge once every 365 days, after AC power has been supplied for a minimum of 24 hours.

## SERVICE INDICATION

LED Indicator	Status
One Flash Red	Replace Electronics
Two Flash Red	Replace Battery
Three Flash Red	Replace LED board (when applicable)
Four Flash Red	Replace lamp head (when applicable)
Five Flash Red	Replace Remote lamp (when applicable)
Steady Red	Connect Battery
Solid Green	Trickle Charge mode
Flashing Green	In test mode
Red/Green Flashing	High Charge mode

## MANUAL TESTING

The unit also provides for manual testing by pressing the test button in a specific pattern

Action	Reaction & LED Indication
Push test button thrice (within 2 secs)	90-minute discharge test; FLASHING Green
Push test button twice (within 2 secs)	30-minute discharge test; FLASHING Green twice
Push test button once (within 2 secs)	30-second discharge test; FLASHING Green thrice
Push test button and hold for 3 seconds (in test mode)	Self-discharge test is canceled; If this is done, then a manual test of the same duration is recommended to be done to ensure compliance
Push test button and hold for 6 seconds (in error mode)	System is reset; Unit will recalibrate the load connected

## WARNING:

- Ensure that power is OFF before making any electrical connections
- Unused wires must be capped off using enclosed wire nuts