

# INSTALLATION INSTRUCTIONS FOR EMERGENCY EXIT SIGN

## IMPORTANT:

When re-lamping, only use lamps specified in the exit sign. Using other lamp types may result in transformer damage or unsafe conditions.

Battery in this unit may not be fully charged. After electricity is hooked up to unit, let the battery charge for at least 24 hours. Normal operation of this unit should then take effect (when applicable).

## IMPORTANT SAFEGUARDS

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

## READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- Do not use outdoors.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not be subject to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than its intended use.
- Before wiring to power supply, turn off electricity at fuse or circuit breaker.
- Consult local building code for approved wiring and installation.
- Installation and servicing should be performed by qualified personnel.

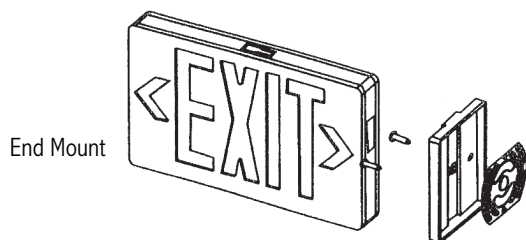
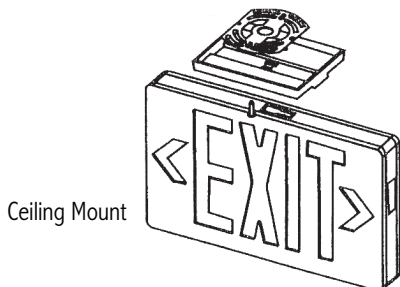
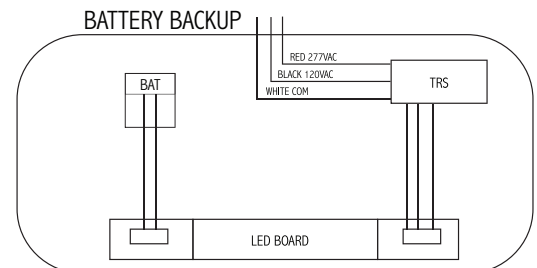
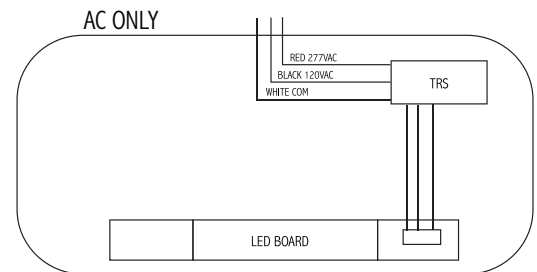


# SAVE THESE INSTRUCTIONS!

## Ceiling and End Mount Installation:

1. Connect input as shown in wiring diagram below and fasten canopy to the J-Box bracket.
2. Snap housing to canopy.
3. Connect the battery (when applicable) to the PC Board.
4. Secure faceplate to housing and remove the proper arrow as required.

## WIRING DIAGRAMS:



### NOTE:

Properly insulate the unused lead with a wire nut or other approved means.

### WARNING:

Unused wires must be capped using enclosed wire nuts.

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## **OPERATION (Battery Backup):**

1. Apply AC power to the unit. The LED Indicator should turn RED.
2. After the battery has been left to charge for 2 hours, test the unit by pushing the switch. The LED indicator turns OFF and the LED board stays ON.
3. When the switch is released, the LEDs turn OFF and the LED indicator turns back to RED.



## **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 with the Battery Backup model requires no maintenance. However, it should be tested periodically (see TESTING) and replaced when it no longer operates the connected fixtures for the duration of a 30-second or 90-minute test. The battery supplied in this equipment has a life expectancy of 5-7 years when used in a normal ambient temperature of 72°F.

## **TESTING:**

National Electric Code (NEC) and NFPA life safety code regulations require that routine tests need to be performed as listed below: Once every month, the unit needs to be tested for duration of 30 seconds. Push in and hold the test switch to perform this test. Once every 12 months, a full 90 minute (per UL requirements) test needs to be performed on the unit. Disconnect power to the unit and leave it in the emergency mode. The LEDs should stay ON for atleast 90 minutes.

# INSTRUCTION FOR SELF - DIAGNOSTIC TEST:

## 1. Introduction

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

## 2. Self - Diagnostic Service

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

- On-line real time monitoring of battery and lamps (both local and remote) : identifies battery charging, disconnection and failure along with local and remote lamp failures.
- Self-testing and a 15-minute discharge once in every 30 days, after AC power has been supplied for a minimum of 24hrs.
- Self-testing and a 90-minute discharge once in every year, after AC power has been supplied for a minimum of 24hrs.

## 3. Fault Indication

Fault Description	LED Indication
Battery disconnection	STEADY Red
Battery recharge failure	FLASHING Red
Battery failure	Red BLINKING '2' TIMES
LED failure (Exits only)	Red BLINKING '3' TIMES
Local lamp failure (Emergency lights only)	Red BLINKING '4' TIMES
Remote lamp failure (Emergency lights only)*	Red BLINKING '5' TIMES

\*- Some applications, for emergency lights, might not require the remote lamps to be used. In such cases, the LED indicator would be constantly BLINKING Red '5' times indicating a fault. In order to by-pass the remote lamps, the PCB must be carefully pulled out from the unit and the purple wire (protruding from the board) should be plugged into the slot Re - L1- on the board. The purple wire already plugged into the slot must be pulled out. Contact factory for further assistance.

## 4. Manual Testing

The unit also provides for manual testing by pushing the test button 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 Twice (within 2 seconds)	15-minute test: Green BLINKING twice
Push test button Three times (within 2 seconds)	90-minute test: Green BLINKING three times

## WARNING:

- Make sure that power is OFF before making any Electrical Connections.
- Unused wires must be capped using enclosed wire nuts.