INSTALLATION INSTRUCTIONS

CAUTION: For safety and proper operation, read and follow instructions carefully before installation.

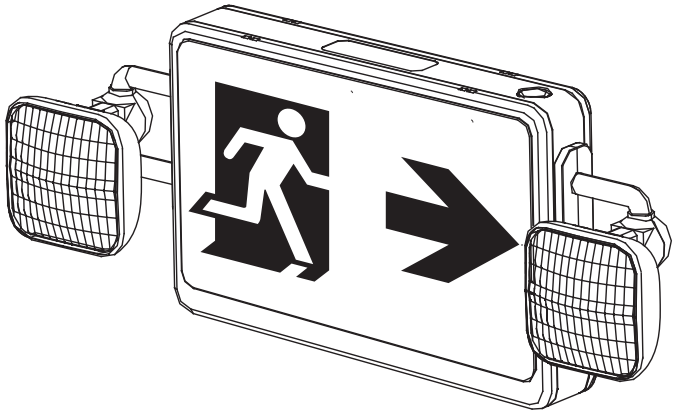
INSTALLATION INSTRUCTIONS for RUNNING MAN LED EXIT SIGN & EMERGENCY COMBO with SELF-DIAGNOSTICS

IMPORTANT SAFEGUARDS

SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

WARNING: RISK OF ELECTRIC SHOCK- NEVER CONNECT TO, OR DISCONNECT FROM, SERVICE WHILE EQUIPMENT IS ENERGIZED.

WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS AND WARNINGS MAY RESULT IN DEATH, SERIOUS INJURY OR SIGNIFICANT PROPERTY DAMAGE - For your protection, read and follow these warnings and instructions carefully before installing or maintaining this equipment. These instructions do not attempt to cover all installation and maintenance situations.



CAUTION: The battery in this unit may not be fully charged. After electricity is connected to unit, let battery charge for at least 24 hours, then normal operation of this unit should take effect. To check, press the TEST button. The lamps on the unit should illuminate.

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- Do not use outdoors.
- Equipment should be mounted securly in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- Do not mount near gas or electric heaters.
- Before wiring to power supply, turn off electricity at fuse or circuit breaker.
- Cap unused wires with enclosed wire nuts or other approved method.
- Do not use this equipment for other than intended use.
- The use of accessory equipment not recommended by the manufacturer will void product listing and warranty and may cause an unsafe condition.
- Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or in eyes, flush acid with fresh water and contact a physician immediately.
- All service on this equipment should be performed by qualified service personnel only.
- Make sure wire terminations are secure and leads are properly tucked in appropriate wire channels.

WALL MOUNT INSTALLATION

1. Remove faceplate and backplate and set aside.
2. Connect 20-inch jumper leads to AC input leads in J-Box. Fasten J-Box bracket to J-Box. Use black wire for 120V. Use orange or red wire for 347V. White wire is common.
3. Remove necessary knockouts and fasten back plate to J-Box cover.
4. Snap housing on to back plate.
5. Connect and trim input leads and slide through the hole in the backplate and connect to supply leads in J-Box.
6. Connect battery only after continuous AC power can be provided to the unit.
7. Secure face plate(s) to housing.

SAVE THESE INSTRUCTIONS!

INSTALLATION INSTRUCTIONS

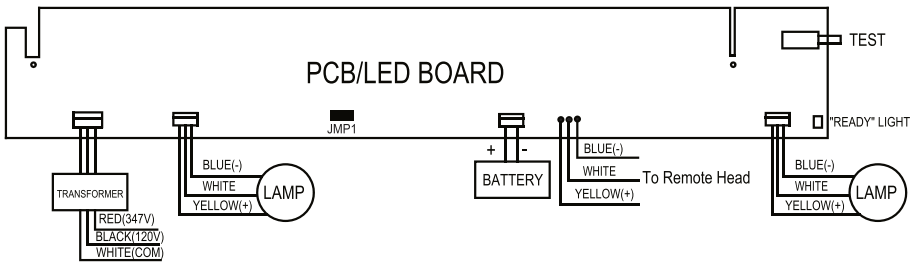
CEILING OR END MOUNT INSTALLATION

1. Remove faceplate and set aside.
2. Connect 20-inch jumper leads to AC input leads in J-box. Fasten J-Box bracket to J-Box. Use black wire for 120V. Use orange or red wire for 347V. White wire is common.
3. Fasten canopy to J-Box bracket.
4. Remove canopy hole cover on the top and snap housing to canopy.
5. Connect and trim input leads and slide through the canopy and connect to supply leads in the J-Box.
6. Connect battery only after continuous AC power can be provided to the unit.
7. Secure face plate(s) to housing

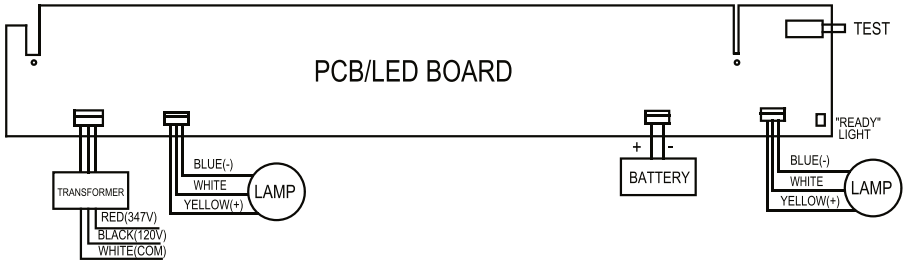
Connection of Remote Lamp Heads (when applicable)

Locate the remote lamp leads on the board inside the fixture. Remove jumper (JMP1) from the PCB. Connect the remote lamp heads by matching the leads on the head to the leads on board. Route wires outside of fixture separately or with AC supply wires. Make sure to keep all wires out of the way of the face of the sign so there are no shadows.

REMOTE CAPABLE SDT



REGULAR SDT



SELF-DIAGNOSTIC TESTING

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
LAMP Failure	Red BLINKING ‘4’ times
Remote LAMP Failure	Red BLINKING ‘5’ 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/lamps 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

5) **Operation**

During an electrical power failure, the LED strip/lamps 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 LED strip/lamps will transfer into a SIMULATED Emergency mode with the LED indicator FLASHING/BLINKING Green. The LED strip/lamps will turn OFF after 30 seconds/30 minutes/90 minutes respectively.

SAVE THESE INSTRUCTIONS!