

INSTALLATION INSTRUCTIONS

FOR SURFACE MOUNT PLASTIC EDGE-LIT LED EXIT SIGN

IMPORTANT SAFEGUARDS: When using electrical equipment, always adhere to basic safety precautions including the following:

Note: For the battery-backup version of this unit, the battery 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.



READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. Do not use outdoors.
2. Equipment should be mounted securely in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
3. Do not mount near gas or electric heaters.
4. Cap unused wires with enclosed wire nuts or other approved method.
5. Do not use this equipment for anything other than its intended use.
6. The use of accessory equipment not recommended by the manufacturer will void product listing and warranty and may cause an unsafe condition.
7. Disconnect AC power before servicing and installation.
8. Use caution when servicing batteries.
9. Any service on this equipment should be performed by qualified personnel only.
10. Make sure wire terminations are secure and leads are properly tucked in appropriate wire channels.

INSTALLATION INSTRUCTIONS

Choose mounting configuration (end, top or back mount). Plug remaining holes with the appropriate color plugs.

1. Secure canopy bracket to ceiling or wall.
2. Open the housing cover.
3. Secure housing and canopy with screws (see mounting configuration).
4. Feed the AC input leads (red, black, white) through the housing and canopy's center hole. Connect AC input leads to AC power supply leads. Connect the red lead to a 277VAC power supply or the black lead to a 120VAC power supply and the white lead to neutral.
5. Secure canopy into canopy bracket with 1-1/2" long #8-32 screws, then insert battery terminal wire into two-pin male connector.
6. Connect battery (battery backup model only) only after continuous AC power can be provided to the unit.
7. Snap housing cover into place.
8. Apply chevron directional indicators as required. Remove application templates when finished.

End Mount

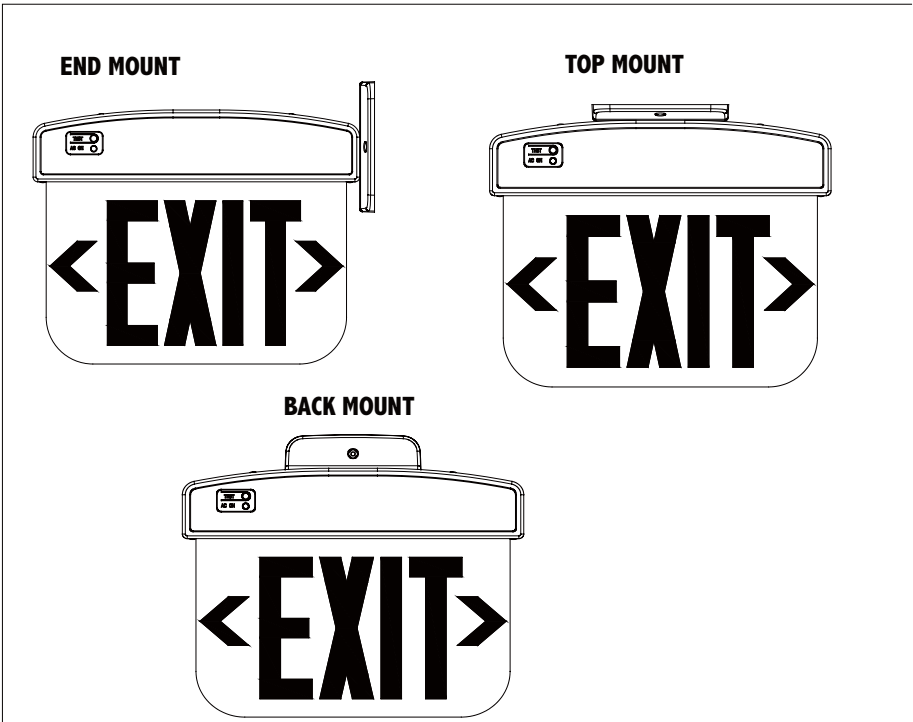
1. Secure canopy to end plate of fixture using mounting holes C and E with (2) 3/4" #10-24 screws (included).
2. Run connection wires through large hole between mounting holes C and D.
3. Make electrical connections and mount canopy to junction box (or spider plate if required) using the two recessed mounting holes and (2) 1-1/2" #8-32 screws (included).

Top Mount

1. Secure canopy to top of fixture using mounting hole A with 3/4" #8-32 screw and hex nut, and 1/2" center hole (between mounting holes B and C) with threaded nipple and hex nuts (included).
2. Run connection wires through threaded nipple.
3. Make electrical connections and mount canopy to junction box (or spider plate if required) using the two recessed mounting holes and (2) 1-1/2" #8-32 screws (included).

Back Mount

1. Mount canopy to junction box (or spider plate if required) using the two recessed mounting holes and (2) 1-1/2" #8-32 screws.
2. Run connection wires through large hole in center of canopy.
3. Secure fixture to canopy with (2) 3/4" #10-24 screws (included) by going directly into mounting holes A and C.
4. Make electrical connections.



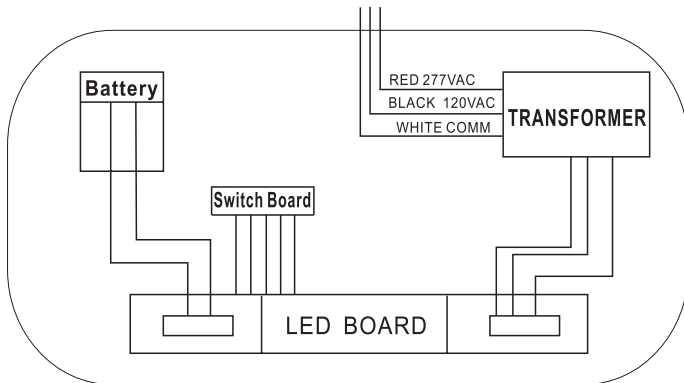
WIRING DIAGRAMS

FOR SURFACE MOUNT EDGE-LIT LED EXIT SIGN

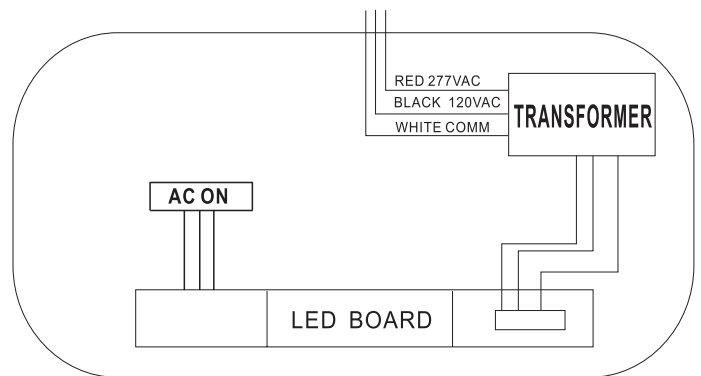
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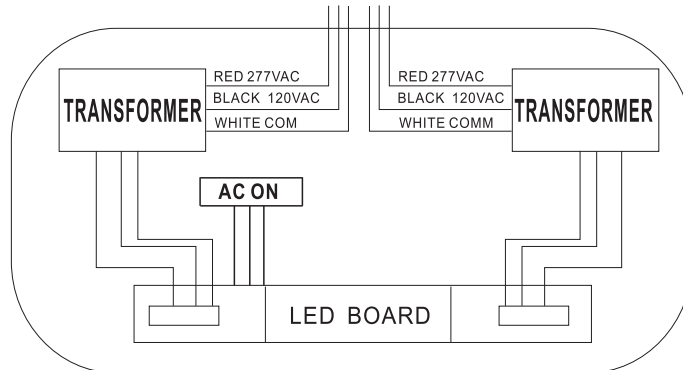
**BATTERY-BACKUP/SELF DIAGNOSTIC
WIRING DIAGRAM:**



AC -ONLY WIRING DIAGRAM:



DUAL CIRCUIT UNIT:



SELF-DIAGNOSTICS 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-

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

3) Fault Indication

Fault Description	LED Indication
Battery Disconnection	STEADY Red
Battery Recharge Failure	FLASHING Red
Battery Failure	Red BLINKING '2' times
LED Failure	Red BLINKING '3' 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

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 AND 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 and Hold test button (for 3-5 seconds)	Interruption
Push and Hold test button (for more than 6 seconds)	System reset

5) Operation

During an electrical power failure, the LED strip 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 will transfer into a SIMULATED Emergency mode with the LED indicator FLASHING/BLINKING Green. The LEDs will turn OFF after 30 seconds/30 minutes/90 minutes depending on the number of times the switch has been pressed.