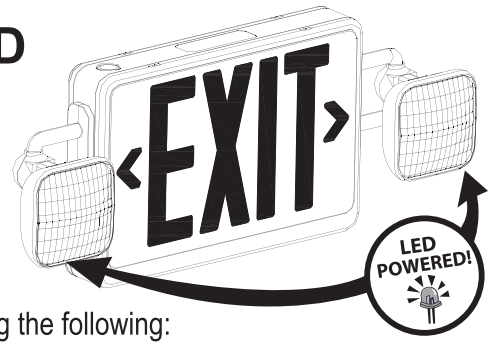
INSTALLATION INSTRUCTIONS FOR LED COMBO EXIT/EMERGENCY LIGHT



SAVE THESE INSTRUCTIONS
IMPORTANT SAFEGUARDS:

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

IMPORTANT

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 TEST button. The emergency LED lamps 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

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. Consult local building code for approved wiring and installation.
9. Use caution when servicing batteries.
10. Any service on this equipment should be performed by qualified personnel only.
11. Make sure wire terminations are secure and leads are properly tucked in appropriate wire channels.

Connection of remote emergency lights (If Applicable)

Use Yellow, Blue & White wires for remote fixtures. Route wires outside of fixture separately or with AC supply wires. Make sure to keep all wires out of the way of the EXIT legend so there are no shadows.

INSTALLATION (CEILING MOUNT)

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 277V. 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 connector to PCB only after continuous AC power can be provided to the unit.
7. Remove proper chevron(s) as required.
8. Secure face plate(s) to housing.

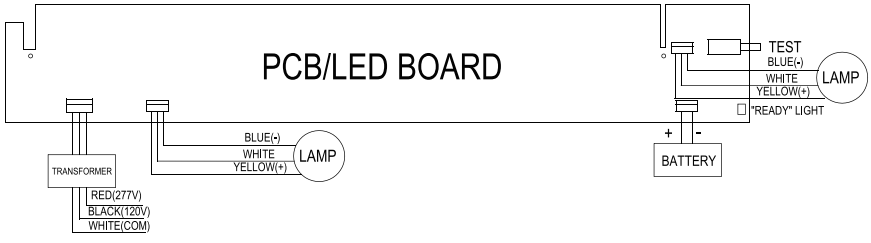
INSTALLATION (WALL MOUNT)

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 277V. 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 connector to PCB only after continuous AC power can be provided to the unit.
7. Remove proper chevron(s) as required.
8. Secure face plate(s) to housing.

NOTE: **The maximum mounting height for this model is 8.5 feet.**

WIRING DIAGRAMS

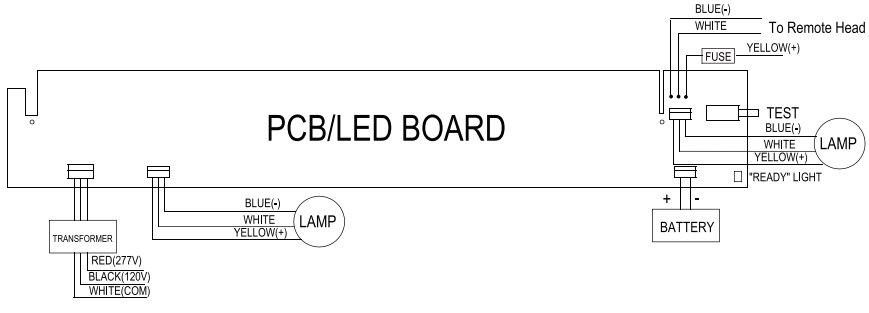
STANDARD



REMOTE CAPABLE

CAUTION: DO NOT connect YELLOW and BLUE remote leads together. Please also ensure remote head positive lead (+) is connected to exit/emergency light yellow lead (+) and remote head negative lead (-) is connected to exit/emergency light blue lead (-).

NOTE: A 4.0Amp, 125/250Volt inline fuse is present on YELLOW remote lead. In case of failure, please replace using BUSSMAN model # GMA-4-R or equivalent.



SELF-DIAGNOSTICS TESTING:

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.

1) 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 (conforming to NFPA code requirements), after AC power has been supplied for a minimum of 24 hours.

2) 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
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 24hrs 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

3) 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 & Hold test button (3-5 seconds)	System Interruption
Push & Hold test button (more than 6 seconds)	System Reset

4) Operation

During a 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.