**EXITRONIX**
BARRON
emergency lighting



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## IMPORTANT SAFEGUARDS
## READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

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

- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations, if applicable.
- Do not mount near gas or electrical heaters.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- 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.
- Do not use this equipment for other than intended use.
- Allow battery to charge for 24 hours before first use.

## SAVE THESE INSTRUCTIONS!

**Technical Support** ■ (623) 580-8943 ■ technicalsupport@barronltg.com

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# 700U Series
Installation Instructions

## Ceiling or End Mount (Fig. 1 & 2)

1. Remove the faceplate by removing the screw from the bottom of the fixture, then sliding the faceplate down and set aside.

2. Punch out both the circular and rectangle knockouts from the top or side of the fixture for ceiling or end mounting, respectively.

3. Line up the canopy with the knockout holes and push the clip through the rectangular knockout to lock into place.

4. Guide the AC supply and ground wires from the inside of the fixture through one of the nuts from the threaded bushing, followed by the circular hole in the canopy and the threaded bushing.

5. Align the nut with the hole in the canopy and thread the threaded bushing into the nut.  The nut should be fully threaded onto the threaded bushing.

6. Guide the lock washer and the second nut onto the wires, then securely fasten onto the threaded bushing.

7. Guide the wires through the center hole of the J-box mounting plate.

8. Make electrical connections; see **Electrical Connections** sections.

9. Determine the proper orientation of the EXIT sign, then secure the J-box mounting plate to the J-box.  Orientation is determined by the location of the two threaded holes of the J-box mounting plate, which align with the two holes in the canopy.

10. Fasten the fixture to the J-box using the (2) #8-32 screws (provided).

11. Remove the chevron(s) from the EXIT legend(s), if desired.

12. Connect the battery jumper wire (if included) to the PCB.

13. Slide the faceplate back into place and secure with the screw.
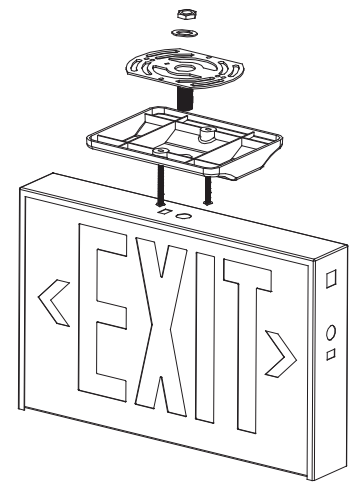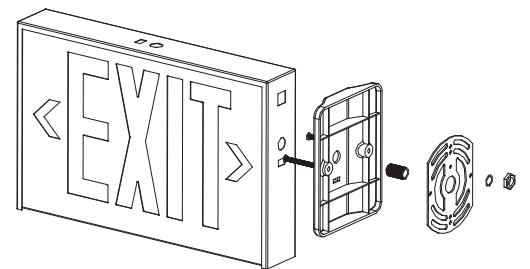
**Fig. 1**

**Fig. 2**

## Wall Mount

1. Remove the faceplate by removing the screw from the bottom of the fixture, then sliding the faceplate down and set aside.

2. Punch out from the backplate the center knockout and any additional knockouts that match the J-box.

3. Guide the wires through the center hole of the backplate.

4. Make electrical connections: see **Electrical Connection** sections.

5. Secure the fixture to the J-box with the (2) #8-32 screws (provided).

6. Remove the chevron(s) from the EXIT legend(s), if desired.

7. Connect the battery jumper wire (if included) to the PCB.

8. Slide the faceplate back into place and secure with the screw.

## Electrical Connections

All electrical connections should be made inside the J-box. Make electrical connections as follows:
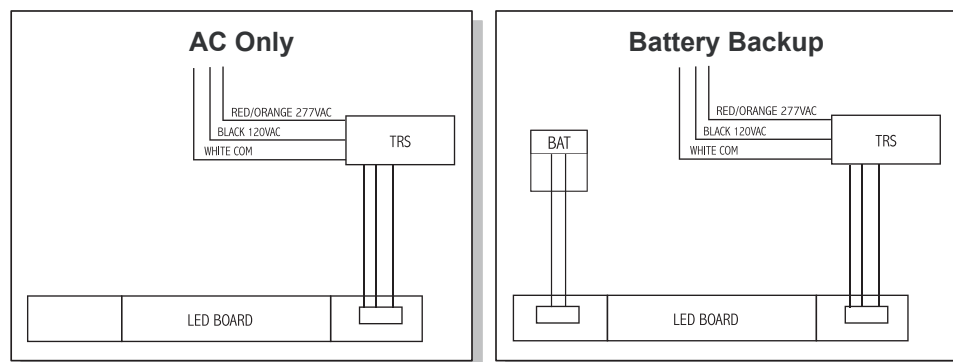
| 120VAC | 277VAC |
|---|---|
| White - Common | White - Common |
| Black - 120VAC | Red/Orange - 277VAC |
| Green - Ground | Green - Ground |

**Note:** Cap unused leads to prevent shorting.
Be sure all wiring is routed around cavity of enclosure to avoid shadowing on faceplate.

### AC Only

RED/ORANGE 277VAC
BLACK 120VAC
WHITE COM
TRS
LED BOARD

### Battery Backup

BAT
RED/ORANGE 277VAC
BLACK 120VAC
WHITE COM
TRS
LED BOARD

## Self-test/Self-diagnostics (G2)

### Operation

The purpose of this option is to provide Self-testing and Self-diagnostic capabilities to the EXIT sign. At predetermined intervals, the EXIT sign will automatically switch into battery mode. Refer to the **Self-Test Features** section of this page for timing details. The EXIT sign will also perform various Self-diagnostic tests of the unit. Visual signaling will alert maintenance personnel to a fault of the EXIT sign electronics, battery and/or battery charger. The circuitry continuously monitors the operating condition of the EXIT sign and battery charging circuit/battery supply voltage. Refer to the **LED Indicator** section below for fault reporting details.

### Self-Test Features

- The EXIT sign will automatically switch to battery mode every 30 days for a period of 30 seconds.
- The EXIT sign will automatically switch to battery mode every 180 days for a period of 30 minutes.
- The EXIT sign will automatically switch to battery mode every 365 days for a period of 90 minutes.

### LED Indicator

Once the unit is properly installed according to the installation instruction sheet and AC power is supplied, the unit will turn on and the Self-diagnostic test function will initiate. After this, the bi-color LED will indicate the status of the unit.

- A solid green LED indicates that normal AC power is being supplied to the EXIT sign.
- A blinking green LED indicates that the EXIT sign is in testing mode.
- A flashing red and green LED indicates that the battery is charging.
- A red (solid or blinking) LED indicates whenever the self-diagnostic system has detected a fault condition. Refer to the chart below when the LED is solid or blinking red:

| Number of Blinks | Unit Fault | Corrective Action |
|---|---|---|
| Solid | Battery is Disconnected | Check Battery Connections |
| 1 | Charge | Check Battery then Consult Factory |
| 2 | Battery Failure | Replace Battery |
| 3 | LED Failure | Check Battery then Consult Factory |

- The LED will be OFF when the EXIT sign is in emergency mode.

**NOTE:** 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 or annual discharge test and/or fails to run the LED strip for the designated amount of time in self-test mode.

### Test Switch

MANUAL TEST – Pressing the test button will switch the unit into battery mode for a set amount of time. The desired length of the test is determined by the number of times the test button is pressed.

- Pressing the test button once will switch the unit into battery mode for a period of 30 seconds. The LED will flash green.
- Pressing the test button twice within 2 seconds will switch the unit into battery mode for a period of 30 minutes. The LED will blink green 2 times.
- Pressing the test button thrice within 2 seconds will switch the unit into battery mode for a period of 90 minutes. The LED will blink green 3 times.

Pressing and holding the test button for 3-5 seconds while the unit is MANUAL TEST mode will cancel the manual test and return the unit to normal AC power.

RESET – Pressing and holding the test button for more than 6 seconds will reset the red LED. If multiple faults are present, it may be necessary to repeat this procedure for each remaining fault indicated by the LED.

Use in accordance with local building codes.

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