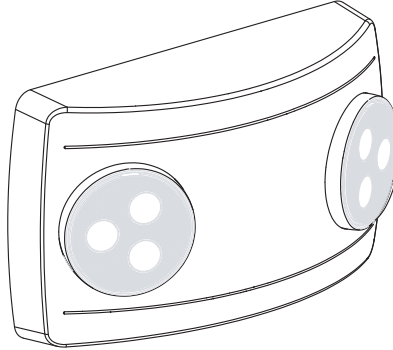


# LED-51/52 Series

Installation Instructions



## 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.
- Do not use outdoors.
- Do not let power cords touch hot surfaces.
- 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 or 48 hours before first use for models with one or two batteries, respectively.

## SAVE THESE INSTRUCTIONS!

Technical Support ■ (623) 580-8943 ■ [technicalsupport@barrontlg.com](mailto:technicalsupport@barrontlg.com)

# LED-51/52 Series

## Installation Instructions

### Wall/Ceiling Mount - Back Power Feed

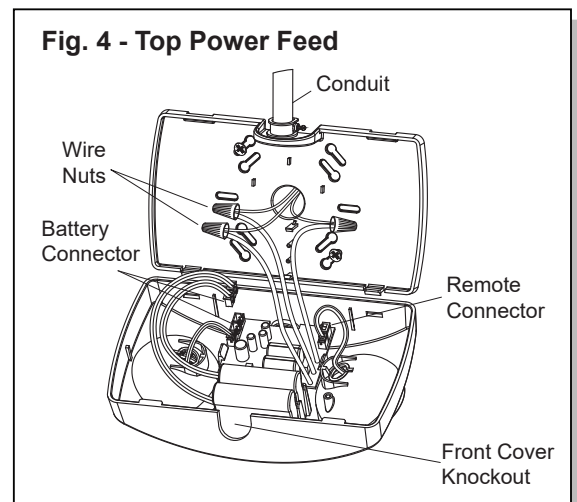
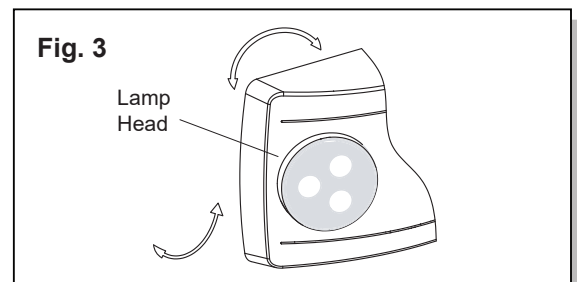
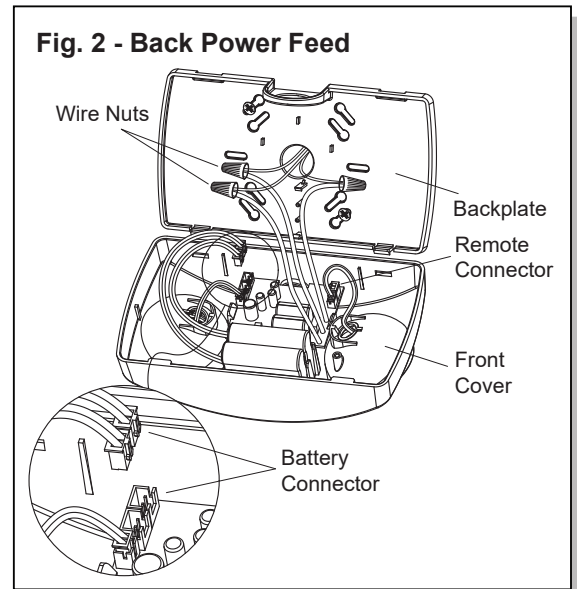
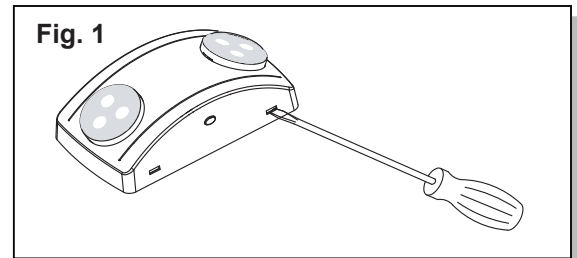
1. Insert a flat blade screwdriver into the two slots to remove the front cover from the backplate. (Fig. 1)
2. Remove from the backplate the center knockout and any knockouts that are needed to mount to the J-box.
3. Route wires through the center hole of the backplate, then mount the backplate to the J-box. (Fig. 2)
4. Make electrical connections; see **Electrical Connections** section.
5. Connect the remote lamp wires if the fixture is remote capable. Refer to **Remote Lamp Connection** section.
6. Plug the male battery connector into the female battery connector on the PCBA.
7. Snap the front cover back onto the backplate.
8. Restore power and test the fixture by pressing the test button. The LED heads will turn on.
9. Adjust the direction of the lamp heads for optimal lighting coverage. (Fig. 3)

### Wall/Ceiling Mount - Top Power Feed

1. Insert a flat blade screwdriver into the two slots to remove the front cover from the backplate. (Fig. 1)
2. Remove appropriate knockouts from backplate and mount to wall.
3. Remove the top knockout on the top flange of the fixture for the flexible conduit access hole. (Fig. 4)
4. Secure conduit (or surface raceway) to the top hole and feed wires.
5. Make electrical connections; see **Electrical Connections** section.
6. Connect remote lamp wires if the fixture is remote capable. Refer to **Remote Lamp Connection** section.
7. Plug the male battery connector into the female battery connector on the PCBA.
8. Snap the front cover back onto the backplate.
9. Restore power and test the fixture by pressing the test button. The LED heads will turn on.
10. Adjust the direction of the lamp heads for optimal lighting coverage.

### Max. Mounting Height

- LED-51: 15ft
- LED-52: 26ft



# LED-51/52 Series

## Installation Instructions

### Electrical Connections

All electrical connections should be made inside the J-box. Make electrical connections as follows (Fig. 5):

#### 120VAC

White - Common  
Black - 120VAC

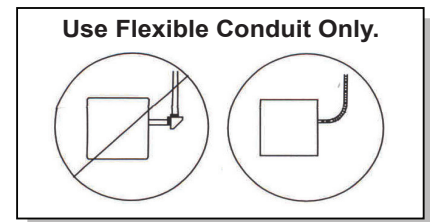
#### 277VAC

White - Common  
Orange - 277VAC

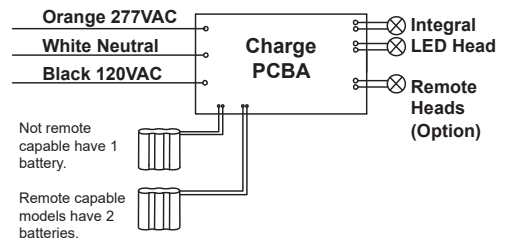
**Note:** Cap unused leads to prevent shorting.

### Remote Lamp Connection: 3.6V, 2W

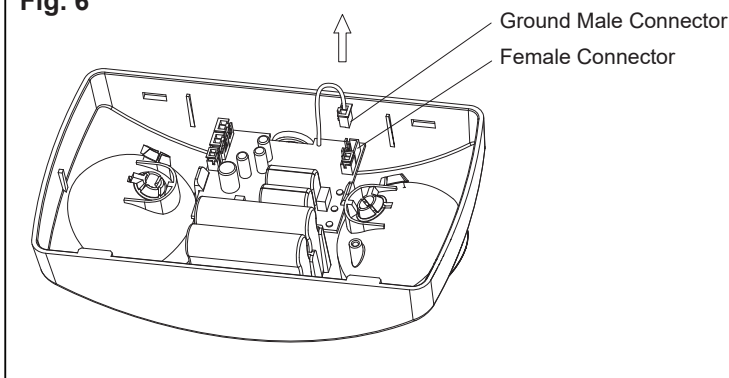
1. Remove the ground male connector from the female connector. (Fig. 6)
2. Plug the remote male connector into the female connector. (Fig. 7)
3. Connect extended remote head wires to the remote wires using wire nuts. Yellow is positive (+) and purple is negative (-).



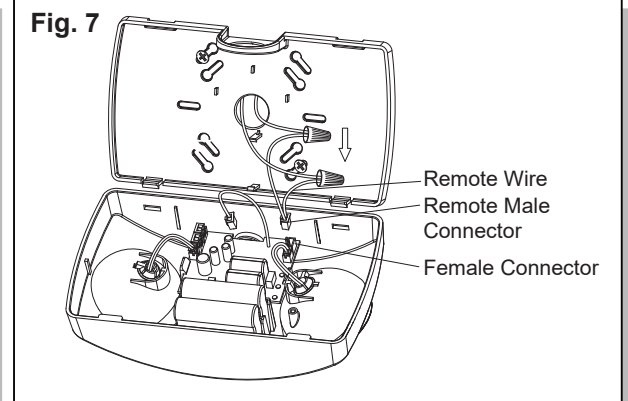
**Fig. 5 - Wiring Diagram**



**Fig. 6**



**Fig. 7**



### Maintenance

We recommend that the fixture be tested regularly in accordance with local codes. Replace the batteries as needed if the discharge time does not achieve 90 minutes.

### Operation

Press the test button. The LED heads will turn on and the LED indicator light will turn off. Release the test switch, the LED indicator will turn on and the LED heads will turn off.

### Troubleshooting Guide

If the LED heads or the LED indicator do not illuminate, check the following:

1. Check AC supply; verify that the unit has 24 hours AC supply.
2. Check the battery connections.
3. Discharge the battery and charge the battery for 24 hours, or 48 hours for models with two batteries, and then retest.
4. If above troubleshooting hints do not solve the problem, contact the factory for assistance.

### Self-Test/Self-Diagnostics (G2)

#### Operation

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

#### Self-Test Feature

- The emergency unit will automatically switch to battery mode every month for a period of 1 minute.
- The emergency unit will automatically switch to battery mode every 12 months 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 steady green LED indicates that normal AC power is being supplied to the emergency unit and the battery is charged.
- A blinking green LED indicates that the unit is in battery mode. Refer to the **Test Button Feature** section below for manual test details.
- A red LED indicates whenever the Self-diagnostic system has detected a fault condition. Refer to the chart below to determine the fault condition:

Red LED Indication	Unit Fault	Corrective Action
Blinking 1 Time	Battery is Disconnected	Check Battery Connection
Blinking 2 Times	Battery Failure	Check Battery Then Consult Factory
Blinking 3 Times	Charger Board Circuit Fault	Check Battery Then Consult Factory
Blinking 4 Times	Transfer Function Failure	Check Battery Then Consult Factory
Blinking 5 Times	Emergency Lamp Fault	Check Lamp Connections Then Consult Factory
Blinking 6 Times	Remote Lamp (If Equipped)	Check Remote Lamp Connections Then Consult Factory

#### Test Button Feature

**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.
- Pressing the test button twice within 2 seconds will switch the unit into battery mode for a period of 3 minutes.
- Pressing the test button 3 times within 2 seconds will switch the unit into battery mode for a period of 30 minutes.
- Pressing the test button 4 times within 2 seconds will switch the unit into battery mode for a period of 90 minutes.

**RESET** – If the fixture is in self-test mode, pressing the test button once will cancel the test. After solving the fault of emergency equipment, pressing and holding the test button for 2 seconds then releasing will reset the LED indicator to steady green.

Use in accordance with local building codes.