

# NFT3 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.
- 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.
- For use with metal enclosed wiring systems.

## SAVE THESE INSTRUCTIONS!

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

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### Wall/Ceiling Mount - Back Power Feed (Fig. 2)

1. Insert a flat blade screwdriver into the two slots to remove front cover from backplate. (Fig 1).
2. Remove the knockout hole on the center of the backplate. Then remove the knockouts on the backplate that correspond to the junction box holes to be used. The knockout holes are easily removed when it is removed from the outside of the backplate.
3. Route AC supply leads through the center hole on the backplate, then make the proper wire connections. Connect the white wire to neutral. If using 120VAC, connect the black wire to the hot lead. If using 277VAC, connect the orange wire to the hot lead. Cap the unused lead. Refer to **Wiring Diagram** section. (Fig. 4)
4. Feed excess wire into junction box and secure backplate to junction box.
5. Connect remote lamp wires if fixture is remote capable. Refer to **Remote Heads Connection** section. (Fig. 5 & 6)
6. Plug male battery connector into female batter connector on PCBA. (Fig. 6)
7. Snap the front cover onto the backplate.
8. Restore power and then test fixture by pressing test button. LED heads will turn on.
9. Adjust the direction of lamp heads for optimal lighting coverage.

### Wall Mount - Top Power Feed (Fig. 3)

1. Insert a flat blade screwdriver into the two slots to remove front cover from backplate. (Fig. 1)
2. Remove top knockout on the top flange of fixture for the flexible conduit access hole.
3. Secure flexible conduit to access hole and route wires through conduit to junction box. (Fig. 3)
4. Remove appropriate knockouts from backplate and mount to wall.
5. Refer to steps 3-9 above in **Wall/Ceiling Mount - Back Power Feed**.

Fig. 1

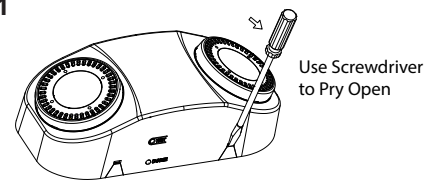


Fig. 2

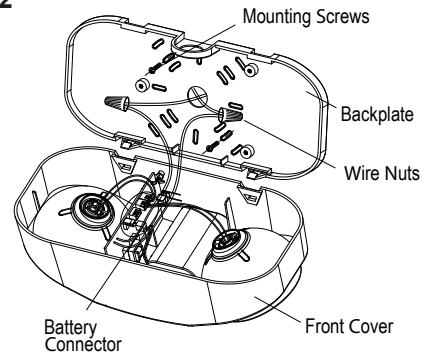
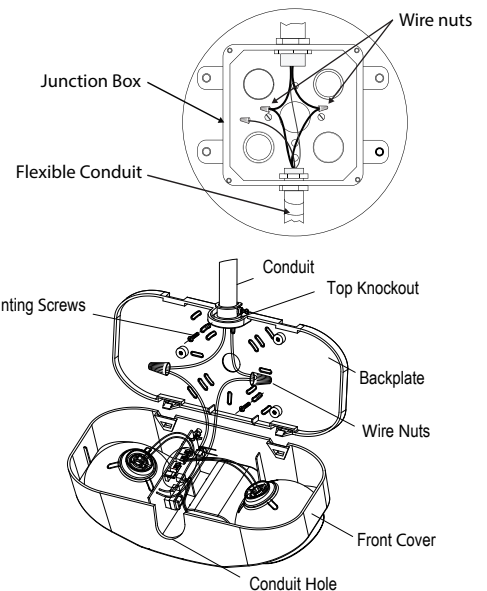
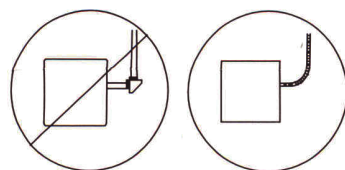


Fig. 3



### Use Flexible Conduit Only.



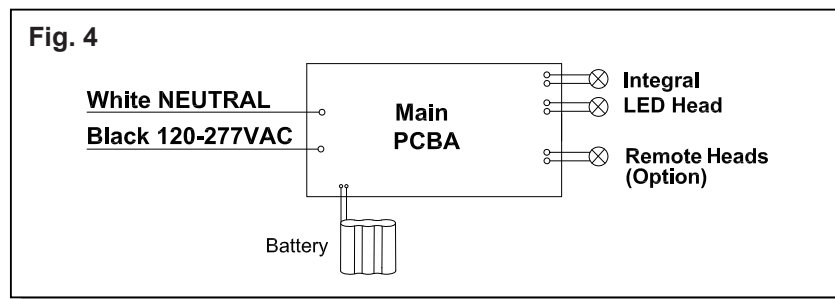
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### Max. Mounting Height

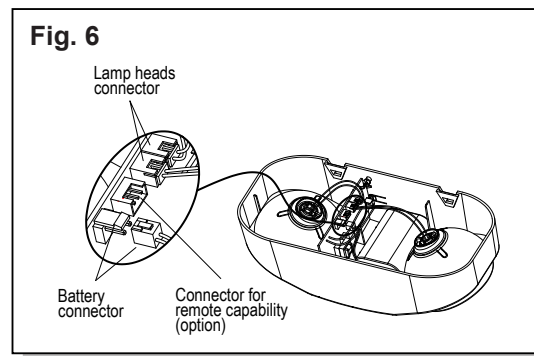
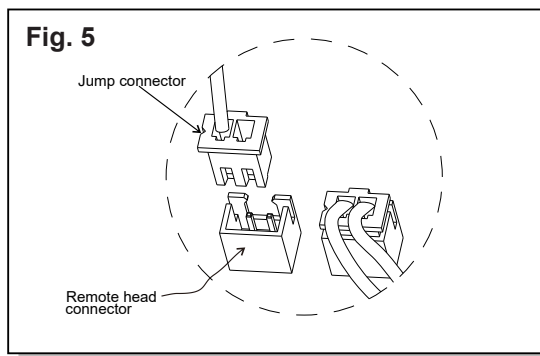
Model	Height
NFT3-LO	27 ft
NFT3-MO	40 ft
NFT3-HO	77 ft

### Wiring Diagram (Fig. 4)



### Remote Heads Connection - 6V, 4.5W Max (Option)

1. Remove jumper connector from the female connector on PCBA. (Fig. 5)
2. Plug the remote male connector into the female connector. (Fig. 6)
3. Connect extended remote head wires to the remote wires using wire nuts. Yellow is positive (+) and the purple is negative (-). (Fig. 6)



### Operation

The battery in this unit may not be fully charged. After electricity is connected to the unit for at least 24 hours, then normal operation of this unit should take effect. To check, press the "TEST" button. The lamps should stay illuminated by battery backup and the LED indicator will be turned off. Release the "TEST" button, LED indicator will be turned on.

In accordance with NFPA 101, your emergency lighting system must be tested monthly for a minimum of 30 seconds and annually for 90 minutes. Refer to your local codes for any additional requirements that may apply.

### Testing and Reporting Instructions (-G2 and -G3/G3PRO models)

1. When AC power is supplied to fixture, the unit will automatically initiate a self-test and self-diagnostic test as follows:
  - Verifies battery disconnection, charger board failure at every 5 seconds.
  - 1 minute self-testing every month.
  - 90 minutes self-testing on every 12 months after installation.

2. Dual color LED lamp indicator shows the following status:

- Green color: On / Ready  
    Blinking: Testing
- Red color: (Service Alert)
- Service Alert LED Code (Red color LED lamp indicator)

●	One blink ON/pause (4 seconds)	Battery is not connected
●●	Two blinks ON/pause (4 seconds)	Battery voltage too low
●●●	Three blinks ON/pause (4 seconds)	Charger board circuit fault
●●●●	Four blinks ON/pause (4 seconds)	Transfer function failure
●●●●●	Five blinks ON/pause (4 seconds)	Integral lamp fault
●●●●●●	Six blinks ON/pause (4 seconds)	Remote head's emergency lamp fault (option)
●●●●●●●	Seven blinks ON/pause (4 seconds)	LED Exit Sign strip fault (option)

**Note:** After solving the fault of emergency equipment, please press test button for 2 seconds then release to reset. LED indicator will show green.

3. "-G2" and "-G3/G3PRO" models also have a manual test function, press test button as follows:

Press test button once (within 2 seconds)	30 seconds discharge test
Press test button twice (within 2 seconds)	3 minutes discharge test
Press test button 3 times (within 2 seconds)	30 minutes discharge test
Press test button 4 times (within 2 seconds)	90 minutes discharge test
*Press and hold test button for 8 seconds	Fixture will leave network and reset itself

\*Only applies to "-G3/G3PRO" models. For use if you have problem to initiate provisioning or if you know the unit belongs to other Guardian G3 Network

### Networking Operations for "-G3/G3PRO" Models

Model with "-G3/G3PRO" suffix is our world winning design equipped with "wireless testing and reporting" features. Unit that has "-G3/G3PRO" suffix in its model number is capable of joining Guardian G3 emergency lighting management system. It will be part of a large testing system to be tested and report result wirelessly.

Once powered up and commissioning allowed, unit will automatically join Guardian G3 network and get provisioned. Upon the completion of the commissioning, unit will perform testing and report based on set schedules.

For more information about commissioning, configurations and testing, please visit website, <https://www.barrontlg.com/guardian-g3-products.php> for details.