

INSTALLATION INSTRUCTIONS

IMPORTANT SAFEGUARDS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. Review the diagrams thoroughly before beginning.
2. All electrical connections must be in accordance with local codes, ordinances, and the National Electric code.
3. Disconnect power at fuse or circuit breaker before installing or servicing.
4. Unit is suitable for outdoor use.
5. Unit is suitable for hazardous location Class I, div 2, groups A, B, C, D. Temperature code: T4A.
6. Do not let power cords touch hot surface.
7. Use caution when servicing batteries. Battery acid can cause burns to the skin and eyes. If acid comes into contact with the skin or eyes, immediately flush the area with fresh water and seek medical attention.
8. Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
9. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
10. Do not use this equipment for other than intended use.
11. All servicing shall be performed only by qualified personnel.
12. Allow battery to charge for 24 hours before full duration test.
13. For hazardous location, the unit must be installed with mounting brackets and conduit connector (hub).

SAVE THESE INSTRUCTIONS

WARNING: INSTALLATION METHODS

If the fixture is intended for installation in a Hazardous Location Class I, Div 2, Groups A, B, C, D, the unit must be installed with mounting brackets and conduit connector (hub).

If the fixture is intended for installation in a non-hazardous location, suspended, wall, ceiling, and end mounting using a standard junction box are available.

MAINTENANCE

Always disconnect power at fuse or circuit breaker before installing or servicing, servicing should be performed only by qualified personnel. BATTERY should be tested periodically and replaced when it no longer meet the required duration of 30 second or full discharge duration. Battery have to be recharged if product keeps in stock over 12 months, detailed manual refers to "BATTERY STOCK AND RECHARGE GUIDELINE".

ROUTINE TESTING

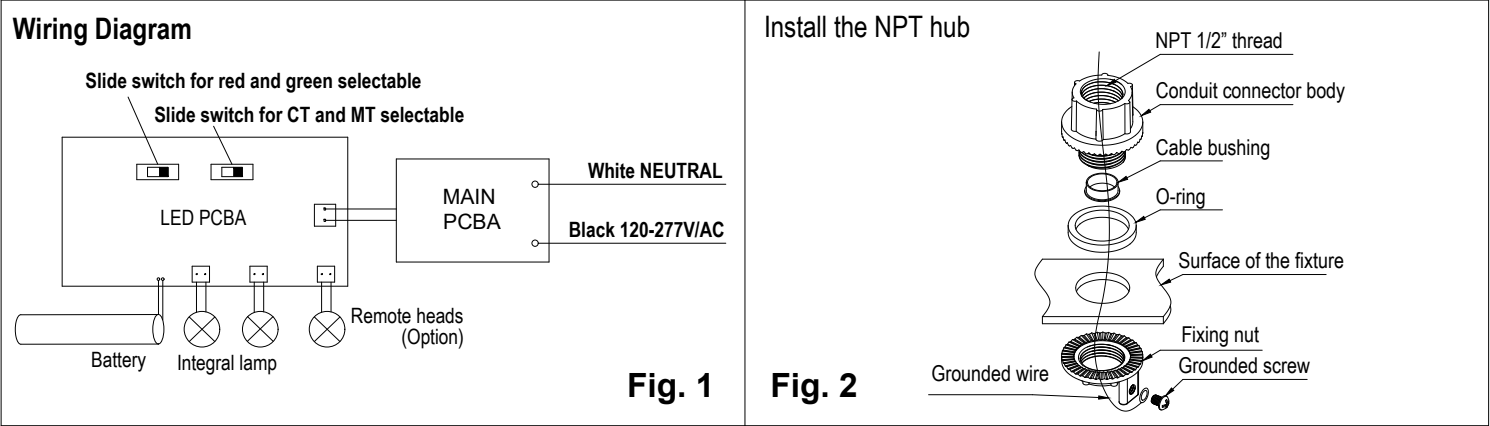
Self-testing mode: Refer to "Instruction for Self-diagnostics / Self-testing".

Manual testing mode: Once every month, perform a 30 seconds duration test, touch the finger sensible test switch to perform this test. Once every 12 months, perform a full discharge duration test, disconnect AC power supply and transfer to emergency mode, the unit should stay on 90 minutes minimum.

TROUBLE SHOOTING GUIDE

If the LED panel or LED indicator fails to light up, perform the following checks:

1. Inspect the AC power supply – confirm the unit receives continuous AC power for 24 hours.
2. The battery is disconnected.
3. The battery voltage is excessively low: allow the unit to charge for 24 hours before retesting.
4. If the troubleshooting steps above fail to resolve the issue, contact our team for support.



MAX. MOUNTING HEIGHT: 59 ft

Installation With Mounting Brackets and Hub (see Fig. 4) Suitable for Hazardous Locations

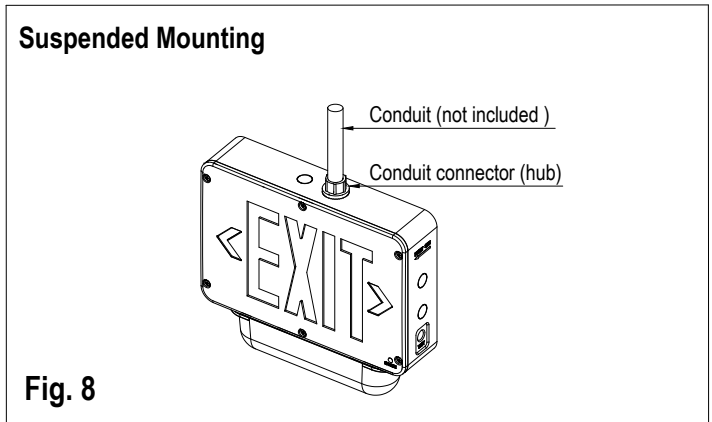
1. Assemble the two surface-mounting brackets (provided) onto the back plate and secure them with the supplied screws.
2. Position the housing on the desired surface. Using the bracket holes as a drilling template, drill four holes and insert the mounting anchors.
3. Remove the clear cover and EXIT panel with a screwdriver (see Fig. 3).
4. Default color of the exit sign letter is red. if need to change to green color, refer to "Red And Green Sign Selectable" (see Fig. 5).
5. Default function of this fixture is self-testing, if need to change to manual test function, refer to "Test Function Selectable" (see Fig. 6).
6. Knock out the cable-entry hole on top or side of the fixture.
7. Assemble the NPT hub on the fixture (see Fig. 2).
8. Use threaded RMC or IMC conduit, tighten conduit to the NPT hub, route the AC supply wire in the fixture.
9. Secure the fixture on the mounting surface with four mounting screws.
10. Make the electrical connections per the wiring diagram. The ground wire of the hub needs to be connected.
11. Connect remote heads if applicable, refer to below instruction for remote heads.
12. Connect battery connector to PC board.
13. Snap chevrons to EXIT panel if required, restore the EXIT panel and clear cover on the unit.
14. Remove the lamp cover with a screwdriver, adjust lamp-head angles as required, restore the lamp cover (see Fig. 7).
15. Restore power and touch the test area, LED heads will turn on.

Connecting Remote heads (see Fig. 4)

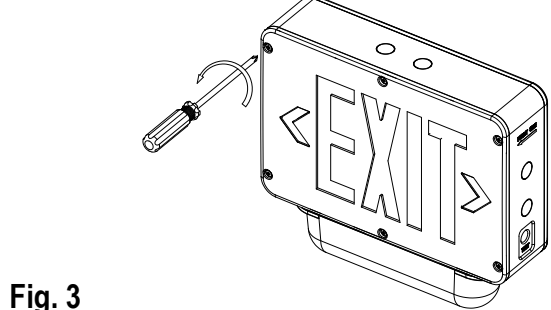
If the fixture has remote capability option, Max. remote capability is 9.6V 6W. Remove the grounded male connector from the remote heads connector on PCBA, connect remote wire to PCBA instead, connect remote heads extension wire to remote wire, yellow is positive(+), purple is negative(-), connect wires using wire nuts.

Suspended Mounting (see Fig. 8) Suitable for Non-Hazardous Locations

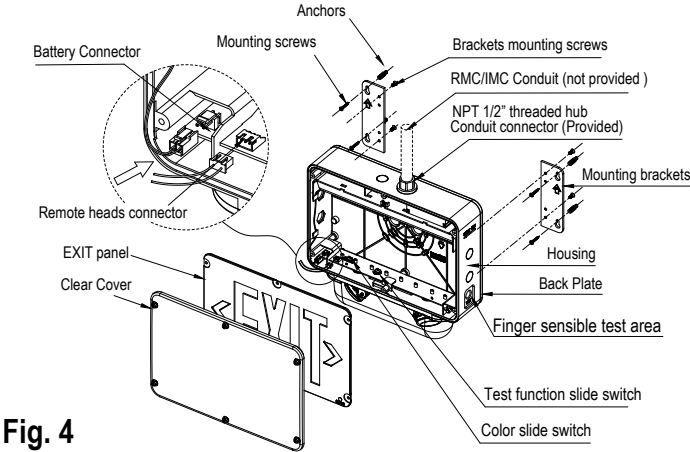
1. Refer to Steps 3-8 in "Installation with Mounting Brackets and Hub".
2. If double faced EXIT sign is desired, replace the back plate with the additional face plate provided.
3. Refer to steps 10-15 in "Installation With Mounting Brackets and Hub".



Open Clear Cover

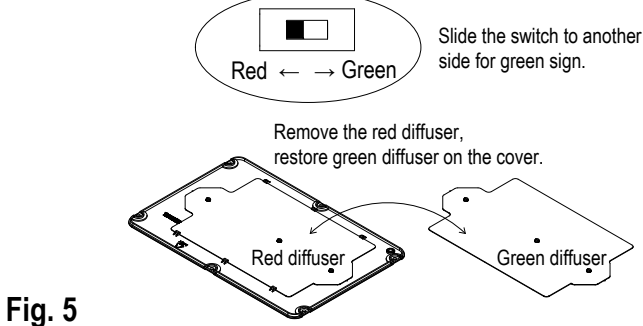


Installation With Mounting Brackets



Red And Green Sign Selectable

The exit sign default setting is red, selectable to green sign as needed.

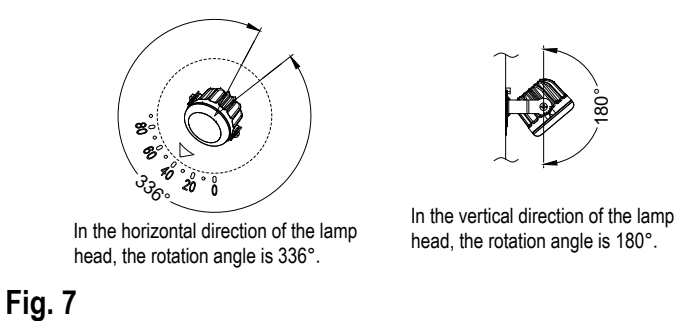


Test Function Selectable

Slide switch knob position	CT(Self-testing)	MT(Manual test)
Function		

Fig. 6

Adjust the Lamp-head Angles



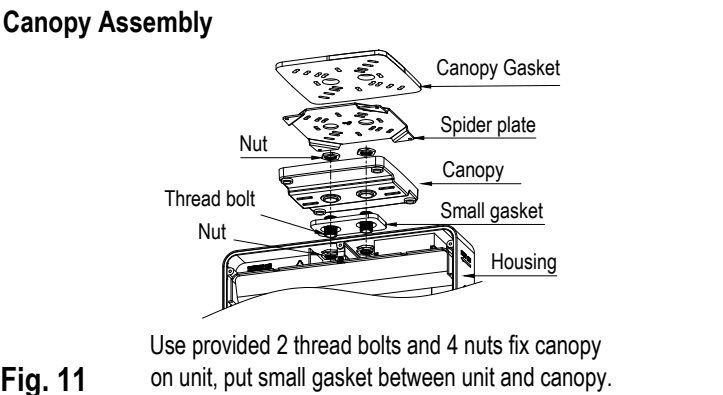
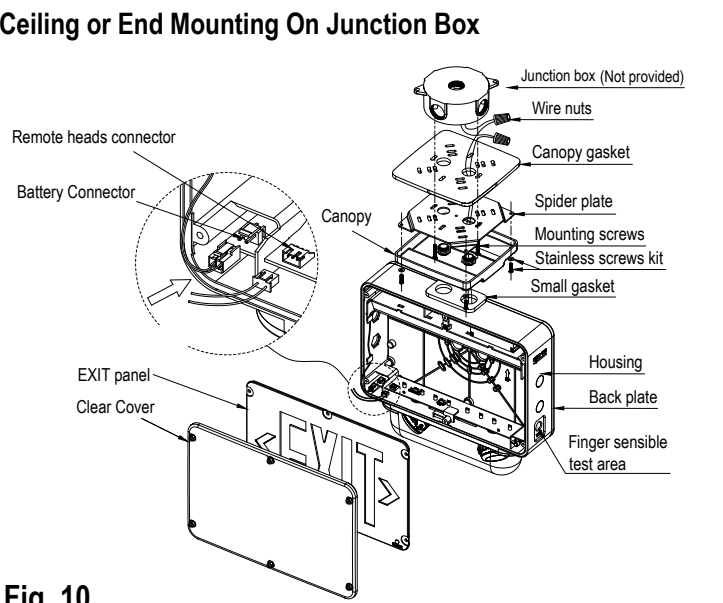
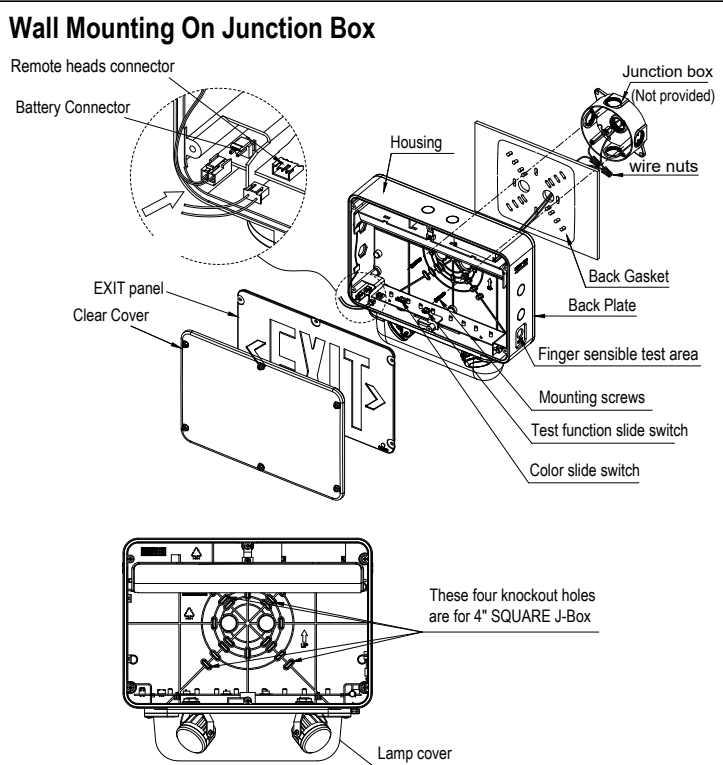
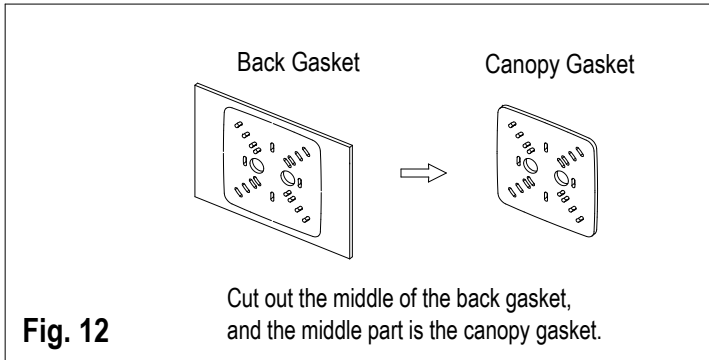
INSTALLATION INSTRUCTIONS

Wall Mounting On Junction Box (see Fig. 9)
Suitable for Non-Hazardous Locations

- 1. Remove the clear cover and EXIT panel with a screwdriver (see Fig. 3).
- 2. Default color of the exit sign letter is red.
if need to change to green color, refer to "Red And Green Aign Selectable" (see Fig. 5).
- 3. Default function of this fixture is self-testing, if need to change to manual test function, refer to "Test Function Selectable" (see Fig. 6).
- 4. Knock out the center and appropriate mounting screw holes on the back plate, paste the gasket on back of the back plate.
- 5. Route AC power supply wires through the center hole, secure the back plate to the junction box by screws.
- 6. Make the electrical connections per the wiring diagram and tuck any excess wire into the junction box.
- 7. Connect remote heads if applicable, refer to "Connecting Remote heads".
- 8. Connect battery connector to PC board.
- 9. Snap chevrons to EXIT panel if required, restore the EXIT panel and clear cover on the unit.
- 10. Remove the lamp cover with a screwdriver, adjust lamp-head angles as required, restore the lamp cover (see Fig. 7).
- 11. Restore power and touch the test area, LED heads will turn on.

Ceiling or End Mounting On Junction Box (see Fig. 10)
Suitable for Non-Hazardous Locations

- 1. Refer to steps 1-3 of "Wall Mounting On Junction Box ".
- 2. If double faced exit sign is desired, replace the back plate with the additional face plate provided.
- 3. Knock out the mounting hole on the top or side of the fixture, assemble the canopy on the unit (see Fig. 11).
- 4. Route the proper wires through mounting hole out of housing .
- 5. Separate the Canopy gasket from the Back gasket(see Fig. 12), paste the Canopy gasket on spider plate (see Fig. 11), secure the Spider plate to the J-box by screws provided.
- 7. Secure the Canopy to the Spider plate.
- 8. Make the electrical connections per the wiring diagram and tuck any excess wire into the junction box.



INSTRUCTION FOR SELF-DIAGNOSTICS / SELF-TEST OPTION

- 1. When AC power is supplied to fixture, the unit will automatically initiate a self-test and self-diagnostics test as follows:
 - (1) Verifies battery disconnection, charger board failure at every 5 seconds.
 - (2) 30 seconds self-testing every month.
 - (3) 90 minutes self-testing on every 12 months after installation.
- 2. Dual color LED lamp indicator shows the following status:
 - (1) Green color On / Ready
blinking: Testing
 - (2) Red color (Service Alert)
 - (3) Service Alert LED Code (Red color LED lamp indicator)

●	One blink, 4 second pause	Battery is not connected
● ●	Two blinks, 4 second pause	Insufficient discharge time
● ● ●	Three blinks, 4 second pause	Charger board circuit failure
● ● ● ●	Four blinks, 4 second pause	Transfer function failure
● ● ● ● ●	Five blinks, 4 second pause	Integral lamp failure (Option)
● ● ● ● ● ●	Six blinks, 4 second pause	Remote heads failure (Option)
● ● ● ● ● ● ●	Seven blinks, 4 second pause	LED strip failure(just for exit sign) (Option)

NOTICE

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

- 3. Self-testing / self-diagnostic also have manual test function, touch test button as follows:

Touch test button once	30 seconds discharge test
Touch test button twice within 2 seconds	3 minutes discharge test
Touch test button 3 times within 2 seconds	30 minutes discharge test
Touch test button 4 times within 2 seconds	90 minutes discharge test

Instructions for Cleaning Lamp Screw Holes

Tools: Insulation gloves, step ladder, cordless vacuum cleaner (with narrow nozzle), small soft brush, dust cloth, 75% alcohol spray.

Steps: Turn off power and cool down → Wear gloves and climb ladder → Vacuum screw holes → Brush out deep dust → Vacuum again → Wipe surface with cloth → Spray alcohol lightly around holes → Restore power and check.