

Wet Location Exit-with Battery Back up & Self Diagnostics 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 suitable for outdoor use.
5. Do not mount in hazardous locations, or near gas or electric heaters.
6. Do not let power cords touch hot surface.
7. Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
8. The use of accessory equipment not recommend by the manufacturer may cause an unsafe condition.
9. Do not use this equipment for other than intended use.
10. All servicing should be performed by a qualified personnel only.
11. Allow battery to charge for 24 hours before full duration test.

SAVE THESE INSTRUCTIONS

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 90 minutes. Battery have to recharge if product keep in stock over 9 months, detail manual refer "BATTERY STOCK AND RECHARGE GUIDELINE".

OPERATION

1. Apply AC power to the unit, the indicator shows red.
2. Push the test switch, the LED indicator turns off and the LED board stays on .
3. After release the test switch, LED indicator turns back to red.

TROUBLE SHOOTING GUIDE

If LED board or LED indicator does not illuminate, check the following:

1. Check AC supply - verify that unit has 24 hours AC supply.
2. Battery is not connected.
3. Battery voltage too low- Permit unit to charge for 24 hours then re-test.
4. If above trouble shooting hints do not solve the problem, contact us for assistance.

ROUTINE TESTING

National Electric Code (NEC) and NFPA life safety code regulations require that routine tests need to be performed as below:

Once every month, perform 30 seconds duration test, push in and hold the test switch to perform this test.

Once every 12 months, perform full 90 minutes test, disconnect AC power supply and transfer to emergency mode, the unit should stay on 90 minutes minimum.

Open front cover

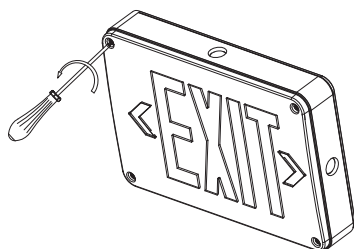
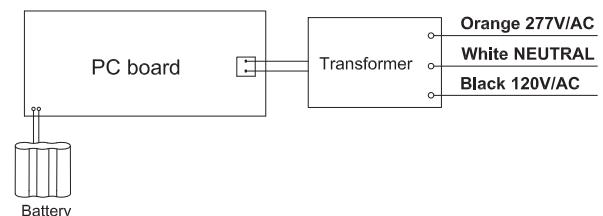


Fig 1

Wiring diagram



Connect the white wire to neutral.
If using 120V, connect the black wire to the hot lead.
If using 277V, connect the orange wire to the hot lead.
Cap the unused lead.

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Wall Mounting (see Fig 2)

1. Open front cover by screwdriver (see Fig 1).
2. Knock out center and appropriate mounting screw holes on the back plate, paste gasket on back of back plate
3. Feed building power supply wires through the center hole, fix back plate to waterproof type junction box by screws.
4. Make correct electrical connections inside of fixture according wiring diagram.
5. Push excess wire into junction box.
6. Attach battery connector to PC board.
7. Snap chevron to EXIT panel if required, restore front panel on unit.

Side /Ceiling Mounting(see Fig 3/4)

1. Attach crossbar to junction box, set the crossbar so that the longer blade is touching the waterproof type junction box.
2. Open front cover by screwdriver.
3. If double face is desired, replace back plate with additional face plate provided.
4. Knock out the mounting hole on the top or side of the unit, assemble the canopy on the unit (see Fig 5).
5. Route the proper wires through mounting hole out of housing .
6. Make electrical connections inside the J-Box as wiring diagram.
7. Fasten crossbar on J-box by screws provided.
8. Paste gasket on canopy, then fasten canopy to crossbar and against to the wall.
8. Snap chevron to EXIT panel if required.
9. Attach battery connector to PC board, restore front panel on unit.

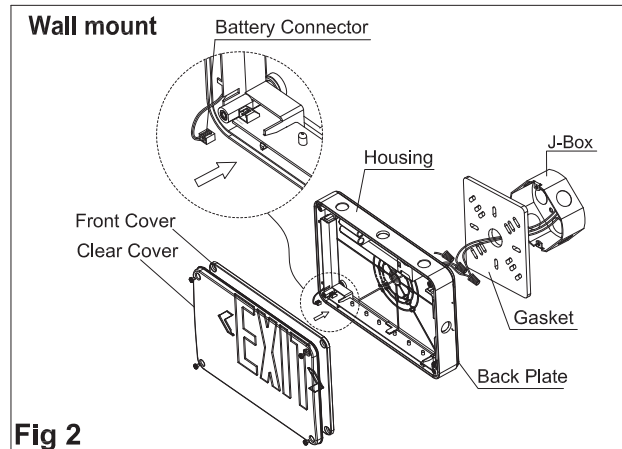


Fig 2

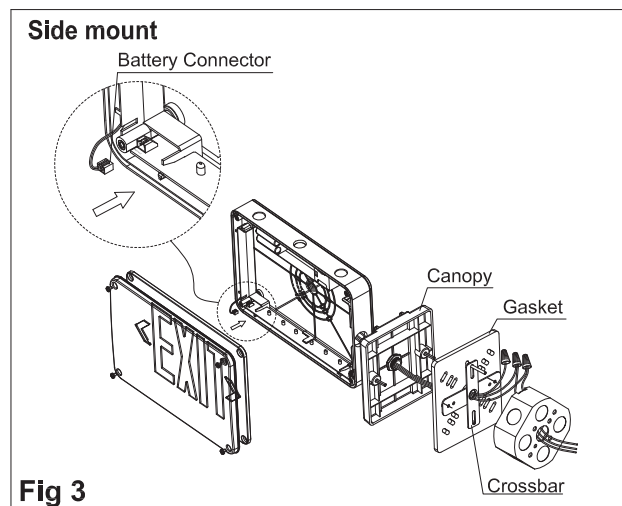


Fig 3

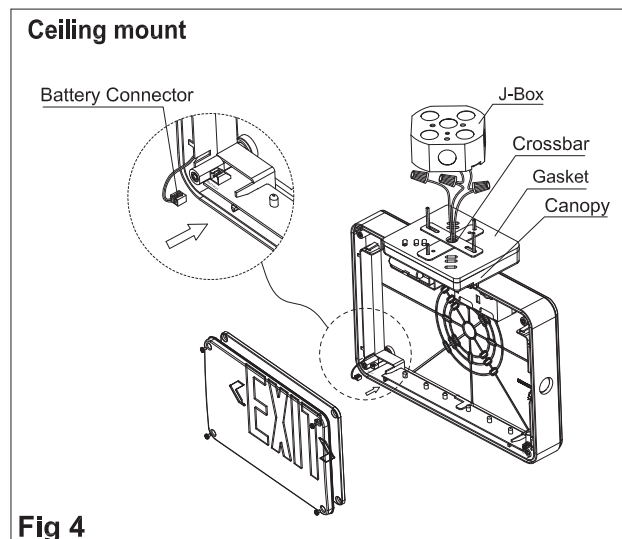


Fig 4

Canopy assembly

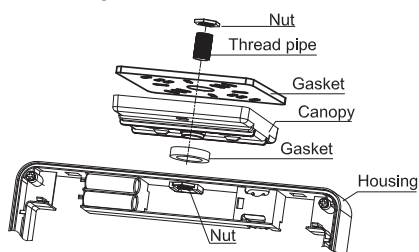


Fig 5

Use provided thread pipe and 2 nut fix canopy on unit, put gasket between unit and canopy.

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INSTALLATION INSTRUCTION SELF-DIAGNOSTICS / SELF-TEST OPTION

SAVE THESE INSTRUCTIONS

1. When AC power is supplied to fixture, the unit will automatically initiate self-test and self-diagnostic test as follows:

- (1) Verifies battery disconnection, charger board failure at every 5 seconds.
- (2) 1 minute 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 not connected |
| ● ● | Two blinks, 4 second pause | Battery failure (discharge time shortage) |
| ● ● ● | 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 (for emergency luminaire) |
| ● ● ● ● ● ● | Six blinks, 4 second pause | Remote heads failure (option) |
| ● ● ● ● ● ● ● | Seven blinks, 4 second pause | LED strip failure (just for exit sign) |

NOTICE

After solving the fault of emergency equipment, please press test button for 2 seconds without releasing to reset. LED indicator will show green.

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

| | |
|--|---------------------------|
| Press test button once | 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 |