

GENERAL INSTALLATION GUIDELINES FOR FHEM11 SERIES

When using electrical equipment, including this emergency exit product, basic safety precautions should be followed at all times, including but not limited to the following:

PLEASE READ CAREFULLY AND FOLLOW ALL INSTRUCTIONS FOR YOUR SAFETY

1. Rated for temperature range of 10°C–40°C (50°F-104°F) and suitable for use in an application that is designated as a damp location area as defined by NEC Article 100, Location, Damp. UL listed to UL924 standard, complying with NEC, OSHA, and Life Safety Code.
2. Equipment should be mounted securely in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
3. Do not mount near gas or electric heaters.
4. Consult local building code for approved wiring and installation.
5. Disconnect AC power before servicing and installation.
6. This is a dual voltage input unit (120V and 277V). Verify correct input connections as follows: 120V input to black (120V) lead; 277V input to red (277V) lead. Incorrect input connection will void warranty and may cause an unsafe condition.
7. Make sure wire terminations are secure and leads are properly tucked in appropriate wire channels.
8. Cap unused wires with enclosed wire nuts or other approved method.
9. The use of accessory equipment not recommended by the manufacturer will void product listing and warranty and may cause an unsafe condition.
10. Do not use this equipment for anything other than its intended use.
11. Any service on this equipment should be performed by qualified personnel only.
12. Use caution when servicing batteries. Avoid possible shorting.

SAVE THESE INSTRUCTIONS

CAUTION: The battery in this unit may not be fully charged. After electricity is connected to unit, let battery charge for at least 24 hours, then normal operation of this unit should take effect. To check, press TEST button. The emergency lamps should illuminate.

IMPORTANT: In order to maintain proper operation and warranty coverage, the battery must be recharged once per year prior to installation.

FLEXIBLE CONDUIT ONLY

INSTALLATION:

J-BOX MOUNTING:

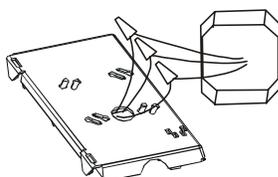


FIGURE A (J Box)

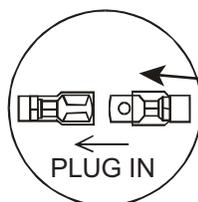


FIGURE B

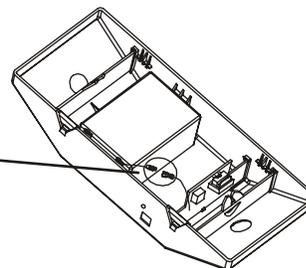
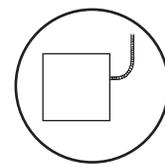
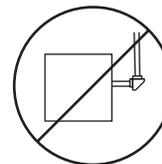
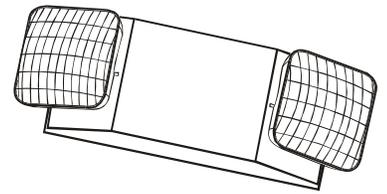


FIGURE C





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J-BOX MOUNTING:

1. Remove back plate from housing.
2. Remove main knockout on back plate.
3. Feed fixture leads through back plate and connect AC power supply (Figure A). Use Black wire for 120V, Red wire for 277V, White wire is common.
4. Mount back plate on J-box and secure with screws.
5. Only after continuous AC power can be provided to unit connect battery (Figure B).
6. Align snaps and push unit directly onto back plate (Figure C). Press Test button to check for proper operation of the unit.
7. The extra lamp wires are for remote heads and are supplied only with remote capable units. (See wiring diagram for Big Battery Remote Capable Unit.)

CONDUIT:

1. Remove back plate from housing.
2. Secure back plate to wall surface.
3. Route wires through conduit flange and make conduit connection to AC power supply (Figure A). Use Black wire for 120V, Red wire for 277V, White wire is common.
4. Only after continuous AC power can be provided to unit connect battery (Figure B).
5. Align snaps and push unit directly onto back plate (Figure C). Press Test button to check for proper operation of the unit.
6. The extra lamp wires are for remote heads and are supplied only with remote capable units. (See wiring diagram for Big Battery Remote Capable Unit.)

OPERATION:

1. To test this unit, let it charge correctly with a continuous AC power supply for a minimum of 24 hours after it's initial installation and then depress the TEST switch. The emergency lamps will illuminate. When the switch is released, the lamps will turn OFF and the red LED indicator will turn on.
2. During an electrical power failure, the emergency lamps on the unit will automatically turn ON for a minimum of 90 minutes.

MAINTENANCE:

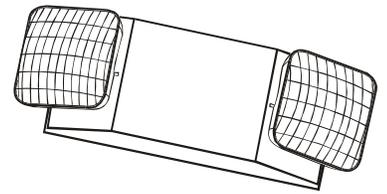
CAUTION: Always turn off AC power to the equipment before servicing. Service should be performed only by a qualified service technician. Use only MANUFACTURER supplied replacement parts.

1. **BATTERY:** The battery supplied in this equipment requires no maintenance. However, it should be tested periodically (see TESTING) and replaced when it no longer operates the connected fixtures for the duration of a 30-second or 90-minute test. The battery supplied in this equipment has a life expectancy of 5-7 years when used in a normal ambient temperature of 72°F.
2. **OTHER:** Clean lenses and replace lamps, as and when required.

TESTING:

National Electric Code (NEC) and NFPA life safety code regulations require that routine tests need to be performed as listed here: Once every month, the unit needs to be tested for a duration of 30 seconds. Push in and hold the test switch to perform this test. Once every 12 months, a full 90 minute (per UL requirements) test needs to be performed on the unit. Disconnect power to the unit and leave it in the emergency mode. The lamps should stay ON for at least 90 minutes.

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Condition - The emergency lights do not operate

1. If the charge indicator light is off: Check that the circuit breaker for AC supply is on.
2. If the charge indicator light is on: Check that battery is properly connected. If problem persists, replace battery.

Condition - Emergency lights are dim

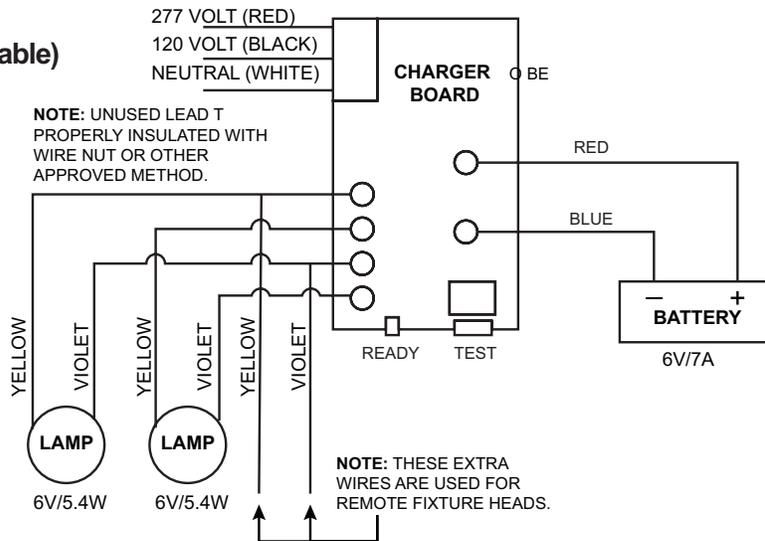
1. Battery not fully charged. Allow battery to recharge for 24 hours, then retest. If lights remain dim, replace battery.

IMPORTANT NOTICE:

This equipment is furnished with a low voltage disconnect circuit to prevent damage by over discharging the battery. However, if the AC supply to the unit is to be disconnected for prolonged periods of time the battery must also be disconnected.

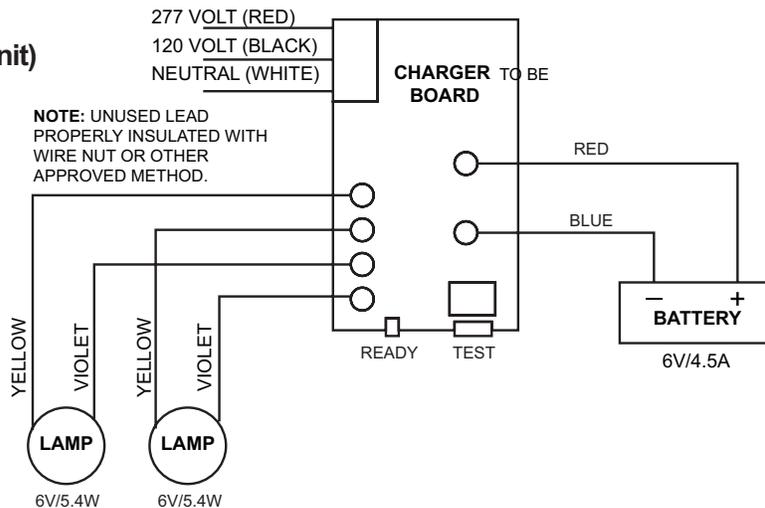
WIRING DIAGRAM

(Big battery remote capable)



WIRING DIAGRAM

(Small battery regular unit)



WARNING: Unused wires must be capped using enclosed wire nuts.