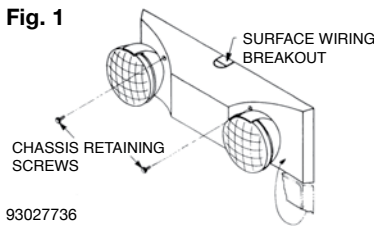


**Taking A Unit Out Of Service**

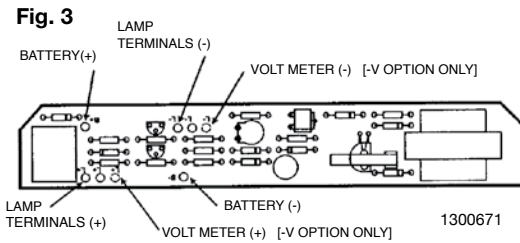
If a unit is to be deliberately taken out of service for an extended period, the positive (+) battery lead should be disconnected from the charger/transfer module and insulated so that the battery will go into storage in a fully charged condition. See Fig. 3 or Fig. 4.

**Fig. 1**



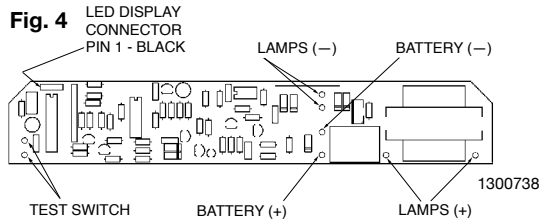
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**Fig. 3**



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**Fig. 4**



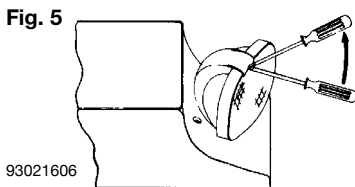
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**RECYCLING INFORMATION**  
All steel, aluminum and thermoplastic parts are recyclable.  
**NOTICE:** Emergency units contain rechargeable batteries which must be recycled or disposed of properly.

**Replacing A Battery**

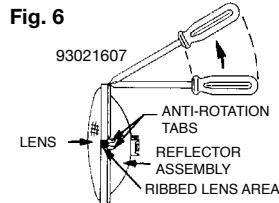
1. De-energize the AC power.
2. Loosen the (2) chassis retaining screws (Fig. 1).
3. Open the unit and disconnect the battery leads.
4. Release battery retaining strap, and swing to the side.
5. Remove the battery.
6. Replace with a new battery (see unit model label for correct part number).
7. Reassemble the unit.

**Fig. 5**



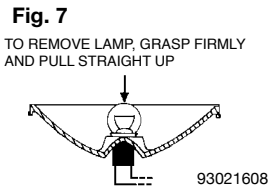
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**Fig. 6**



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**Fig. 7**



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**Replacing An Emergency Lamp**

1. To remove the lamp assembly from the lamp housing, place a screwdriver into the slot (Fig. 5), and pry the lamp assembly out.
2. Insert a screwdriver into the lens slot (Fig. 6) and pry the lens from the reflector assembly.
3. Remove the defective bulb (Fig. 7). Insert a new bulb into the reflector by aligning bulb base with socket and pushing lamp firmly into socket.
4. Reassemble the lamp:
  - a. align the small "key", located between the anti-rotation tabs on the reflector assembly, with the "keyway" adjacent to the ribbed area on the edge of the lens. (Fig. 7).
  - b. press the lens into the reflector assembly.
5. Rejoin lamp assembly to lamp housing:
  - a. orient the lamp assembly's anti-rotation tabs to the top of the lamp housing.
  - b. set the bottom of the lamp assembly into the housing and dress wires neatly into the housing cavity.
  - c. insert a screwdriver into the slot (Fig. 5) and lever the lamp assembly into the housing.

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**EZ-2 Series**

*Twin-Head Emergency Lighting Unit*  
**Standard and Spectron® Equipped Models**  
**Installation, Operation and Service Instructions**



**IMPORTANT SAFEGUARDS**

When using electrical equipment, basic safety precautions should always be followed including the following.

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS**

1. Do not use outdoors.
2. Do not let power supply cords touch hot surfaces.
3. Do not mount near gas or electric heaters.
4. Equipment should be mounted in locations and at heights where it will not readily be subject to tampering by unauthorized personnel.
5. The use of accessory equipment not authorized by the manufacturer may cause an unsafe condition.
6. Do not use this equipment for other than its intended purpose.
7. Servicing of this equipment should be performed by qualified service personnel.
8. Test cycling: the Life Safety Code (NFPA 101) requires testing of emergency lighting units once a month for a minimum of 30 seconds, and once a year for a minimum of 90 minutes.

**INSTALLER:**

- **SEE UNIT LABEL FOR ADDITIONAL MODEL SPECIFICATIONS**
- **SAVE THESE INSTRUCTIONS FOR USE BY OWNER/OCCUPANT**

**WARNING** – This product contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm. Thoroughly wash hands after installing, handling, cleaning, or otherwise touching this product.



Hubbell Lighting, Inc.

**General Instructions**

This unit is designed for surface mounting on a wall with or without an outlet box. KO's provided for single gang, 4" octagon and 4" square outlet boxes. A breakout on the top of the unit accepts approved surface wiring equipment or conduit (see Fig. 1). Provide each unit with a single unswitched supply from a 120VAC or 277VAC branch circuit used for normal lighting in the area to be protected.

Fig. 1

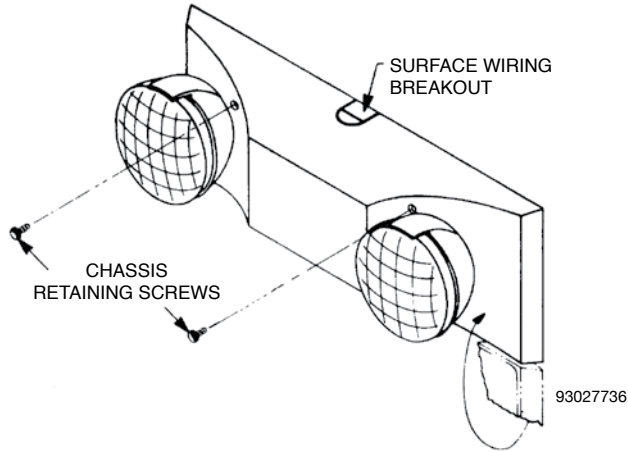
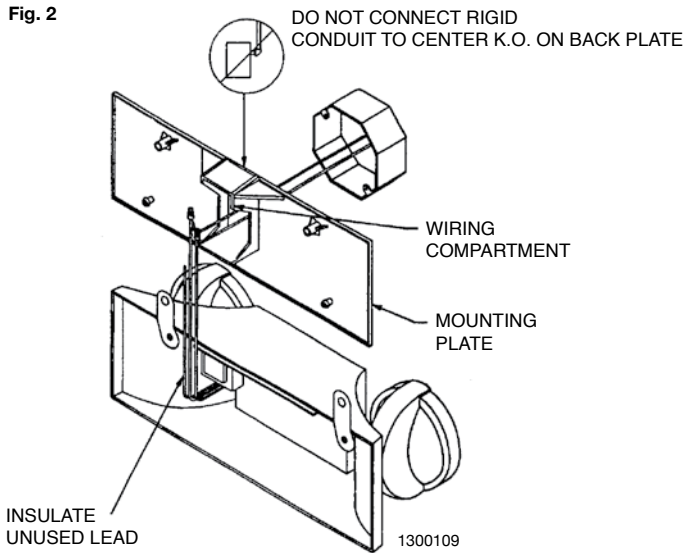


Fig. 2



**Installing The Unit**

1. Fasten mounting plate to wall or junction box (Fig. 2).
2. Attach housing to mounting bracket with hinge straps (Fig. 2).
3. Make AC supply connections using approved wire connectors. Select either black lead (for 120VAC) or red lead (for 277VAC). Cut back and insulate unused lead (Fig. 2).
4. Connect red positive (+) battery lead to positive (+) battery terminal on charger module. See Fig.3 or Fig. 4 on back cover for terminal location.
5. Swing chassis up and tighten retaining screws (Fig. 1).
6. Energize AC input power.
7. Adjust emergency lamps to desired angle.

**Caution:** Damage to the battery may occur if the battery is left connected for a long period of time without AC power.

When the AC circuit is initially energized, the status lamp on standard units will typically stay at full brilliance for several hours before fading to a "dim" state, indicating the battery has charged to its normal float level. On Spectron® equipped models, the green Status LED is illuminated when AC power is present.

**NOTE:** All models are supplied with an AC Lockout circuit, which prevents the emergency lights from illuminating when the battery is connected and no AC power is present.

**NOTE:** All models are supplied with a Low Voltage Disconnect circuit, which prevents damage to the battery from deep discharge during prolonged emergency operation.

**NOTE:** Batteries are often shipped in a discharged state – this is normal. The battery will require charging. Allow several hours of charge before testing the unit.

**Models With SPECTRON® Self-Testing/Self-Diagnostic Circuitry**

Models equipped with the Spectron self-testing/self-diagnostic electronics system provide:

- Visual indication of AC power status
- Visual indication of self-diagnostic test cycles

—Visual indication of any unit malfunctions including—

- Battery fault
- Transfer fault
- Charger fault
- Emergency Lamp fault

Spectron equipped units also include:

Brownout protection: unit will automatically transfer to emergency operation upon detection of low AC power (approximately 80% of nominal line).

Time Delay Retransfer: upon return of normal AC power, unit will remain in the emergency mode for an additional 15 minutes to allow AC power to stabilize.

**LED Status Indicators**

Two status indicators, one green and one red, are provided on the control panel of all models equipped with the Spectron option.

**Green Operating Status LED**

The green Operating Status LED serves as both an AC power and a self-test indicator. During normal operation, the green Operating Status LED will be illuminated, indicating the presence of AC power. During all automatic or manual self-test cycles, the green Operating Status LED will blink at a 1 Hz. rate.

**Red Service Alert LED**

Under normal operating conditions, the red Service Alert LED indicator will remain "off". In the event the Spectron controller detects a malfunction, the red Service Alert LED will blink at a 1 Hz. rate, based on the following table:

| Red Status LED Code   | Description            |
|-----------------------|------------------------|
| One blink ON/pause    | Battery not connected  |
| Two blinks ON/pause   | Battery fault          |
| Three blinks ON/pause | Charger fault          |
| Four blinks ON/pause  | Transfer circuit fault |
| Five blinks ON/pause  | Emergency Lamp fault   |

**Automatic Tests**

The unit will automatically initiate a self-test/self-diagnostic cycle based on the following table:

| Testing Period      | Duration of Test |
|---------------------|------------------|
| Once a month        | 1 minute         |
| Once every 6 months | 30 minutes       |

**Manual Tests**

Using the unit test switch, users can initiate different duration test cycles based on the following table:

| Initiating Action             | Test Cycle |
|-------------------------------|------------|
| Press test switch once        | 1 minute   |
| Press test switch twice       | 5 minutes  |
| Press test switch three times | 30 minutes |
| Press test switch four times  | 60 minutes |

Pressing the test switch at any time after a test cycle has begun cancels the remainder of the test and returns the unit to normal operation.