

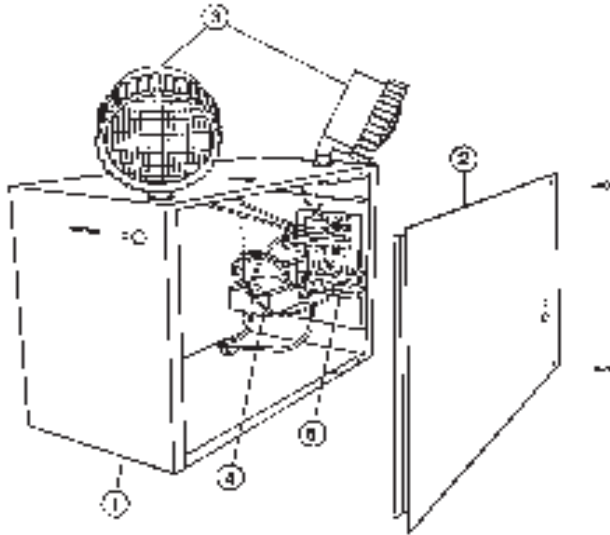
INSTALLATION INSTRUCTIONS

TRIAN

SERIES

MODELS ELT50 / ELT125 / ELT180 / ELT250 / ELT275

CAUTION: For safety and proper operation, read and follow instructions carefully before installation



PARTS DESCRIPTION

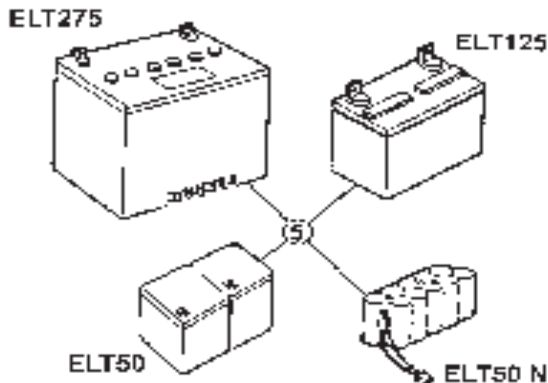
- | | |
|---------------|-----------------|
| ① Housing | ④ Transformer |
| ② Front Cover | ⑤ Battery |
| ③ Lamp Head | ⑥ Charger Board |

BEFORE INSTALLATION

Unit should be located to assure adequate clearance for front cover ② and lamp housing ③ orientation.

Do not position unit where it will be exposed to direct sunlight, radiators, or other heat sources. Prolonged exposure to high temperatures will shorten battery life and may void warranty.

CAUTION: Damage to battery will occur if battery is connected to charger board for a prolonged period of time without AC power provided.



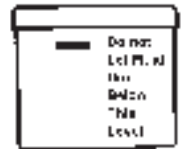
IMPORTANT SAFEGUARDS

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- Do not use outdoors.
- Do not let power supply cords touch hot surfaces.
- Do not mount near gas or electric heater.
- Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or in eyes, flush acid with fresh water and contact physician immediately.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than intended use.
- Before wiring to power supply, turn off electricity at fuse or circuit breaker.
- Consult your local building code for approved wiring.
- Fixture must be grounded to avoid potential electric shock.
- Disconnect AC power and unplug battery before servicing.
- All servicing should be performed by qualified personnel.
- CAUTION:** Halogen cycle lamp(s) may be used in this fixture. To avoid shattering, do not operate lamp in excess of rated voltage. Protect lamp against abrasions and scratches and against liquids when lamp is operating. Dispose of lamps with care. Halogen lamps operate at high temperatures. Do not store or place flammable materials near lamps.

SAVE THESE INSTRUCTIONS

MAINTAINABLE BATTERIES: MODELS ELT180 AND ELT250



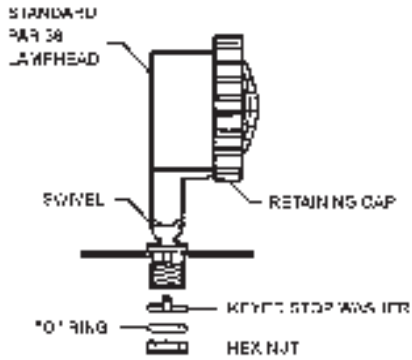
BATTERY Model ELT180
Each hydronector ball drop
represents a 25% discharge level

ALTERNATE BATTERY
Model ELT250



BATTERY ELT180

FIGURE 1

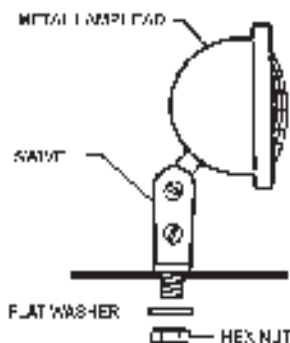


LAMP HEAD ASSEMBLY

1. Remove cover screws and open front cover ②.
Note: If unit has voltmeter/ammeter options, these components must be disconnected from charger board ④ before front cover can be removed (Refer to wiring diagrams Fig. 4 through Fig. 9).
2. Select and remove two 7/8" round knockouts for plastic lamp heads ③ or two 3/8" square knockouts for metal lamp heads.
3. For assembly of standard par 36 lamp heads, refer to Fig. 1. Place swivel into desired mounting hole and slide keyed stop washer, tab pointing upwards, over swivel threads. Next slide on "O" ring and screw hex nut on until sufficient pressure is obtained to secure lamp head in desired position.
4. For assembly of plastic lamp heads, options SSB or DS, refer to Fig. 2. Slide fiber washer over cylindrical base of pedestal swivel and place swivel into mounting hole. Slide another fiber washer over base of swivel and insert locking peg. Rotate locking peg 90 degrees to one side to secure peg in place.
5. For assembly of metal lamp heads, option MT, refer to Fig. 3. Place swivel into mounting hole and attach to housing ① using flat washer and hex nut.

FIGURE 2

FIGURE 3



MOUNTING TO WALL USING J-BOX

Remove rear knockout and locate over J-Box. Install fasteners with a pullout rating of 80 pounds in the 3 keyway mounting holes and in the lower oblong mounting hole.

MOUNTING WITH SURFACE CONDUIT

Remove 7/8" knockout from top or side of housing ① for conduit connection. Install fasteners with a pullout rating of 80 pounds in the 3 keyway mounting holes and in the lower oblong mounting hole.

WIRING (See Fig. 4. through Fig. 9)

1. Connect AC input leads as follows:
120V AC - Black and White Transformer Leads
277V AC - Brown or Orange and White Transformer Leads
NOTE: Unused lead must be properly insulated using wirenut or other approved method.
2. Connect lamp leads to charger board ④.
- NOTE:** Model ELT50 N is equipped with a terminal board for lamp, charger board, and battery connections (Refer to Fig. 4).
3. Place battery ⑤ in housing ① with battery terminals facing to front of housing. Connect remaining battery and charger board leads.
- CAUTION:** Model ELT50 batteries are wired in series. Be sure to refer to wiring diagram Fig. 5 for proper connection of battery terminals.
- CAUTION:** Be sure red lead is connected to positive terminal and blue or black lead is connected to negative terminal.
4. Slide barbed "GND" clip (supplied) onto housing ① at opening of keyhole slot or, if used, knockout opening in rear of housing. Press flag terminal of supplied green ground lead onto "Gnd" clip and permanently connect supply ground to ground lead using standard wirenut or other approved method.

NOTE: This equipment to be connected to unswitched circuit only.

NOTE: Allow battery to charge 24 hours before initial testing, and 168 hours to fully charge battery.

REMOTE LAMP CONNECTION

1. Model ELT50 or ELT125: Two 6" leads are provided for remote lamp connection. Connect 6" leads to flag terminals on charger board ④ where indicated (REMOTE LAMP YL. and REMOTE LAMP BL.). Wirenut remote lamp leads to stripped ends of provided leads.

2. Model ELT50 N: Remote lamp leads must be connected to screw terminals on terminal board (See Fig. 4.)

3. Model ELT180, ELT250, or ELT275: Remote lamp leads should be connected to screw terminals on charger board (See Fig. 8).

NOTE: For units provided with load disconnect switch, (option LD) one remote lamp lead should be connected to the screw terminal on the charger board in line with the blue lamp leads and the other remote lamp lead should be connected to the screw terminal on the load disconnect switch in line with the yellow lamp leads (See Fig. 9).

INSPECTION AND MAINTENANCE

NOTE: Emergency lighting systems should be tested as often as local codes require, or at least quarterly, to ascertain that all components are operational.

- A. **NORMAL OPERATION:** When unit is functioning properly with A.C. power provided, the "READY" light will be on.
- B. **TO TEST:** Push "TEST" button. DC lamps should come on and "READY" light should go out.
- C. **CHARGER BOARD REPLACEMENT:** Disconnect wiring as shown in wiring diagrams Fig. 4 through Fig. 9. Remove charger board from nylon standoffs by depressing locking flanges. Replace charger board and reconnect wiring as shown in proper wiring diagram.
- D. **BATTERY REPLACEMENT:** Disconnect battery leads. replace battery only with manufacturer's recommended replacement. Reconnect battery leads (Refer to wiring diagrams Fig. 4 through Fig. 9). Allow battery to charge 24 hours before initial testing and 168 hours to fully charge battery.
- E. **TRANSFORMER REPLACEMENT:** Disconnect wiring as shown in appropriate wiring diagram (See Fig. 4 through Fig. 9). Remove mounting screws and transformer. Replace transformer and reconnect wiring.
- F. **LAMP REPLACEMENT:** For Standard Par 36 lamp head, replace lamp as follows:

Remove threaded retaining cap by rotating counterclockwise. Disconnect lamp leads and reconnect an identical replacement lamp. Replace retaining cap and rotate clockwise to secure in place.

For Square Sealed Beam (Option SSB) lamp head, replace lamp as follows:

- (1) Locate snaps along seam of lamp housing, insert a flat blade screwdriver, and twist to release each snap and separate two halves of lamp housing.
- (2) Remove leads from lamp and reconnect an identical replacement lamp.
- (3) Slide replacement lamp into one half of lamp housing so that square stud on rim of lamp fits into notched rib inside lamp housing.
- (4) Slide other half of lamp housing over lamp and snap upper or lower portion of housing together. Locate un-snapped portion of lamp housing onto pedestal swivel track. Making sure that lamp leads are routed through hole in rear of lamp housing, snap housing completely shut.

For Metal (Option MT) lamp head replace lamp as follows:

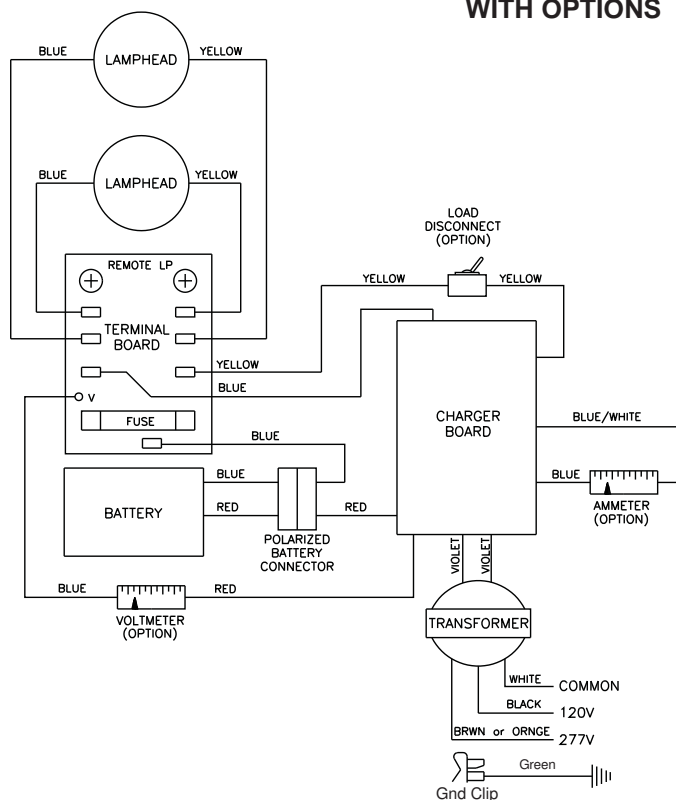
Remove lamp retaining ring. Remove leads from lamp and reconnect an identical replacement lamp. Replace retaining ring.

NOTE: Metal lampheads (option MT) lamp leads may be black.

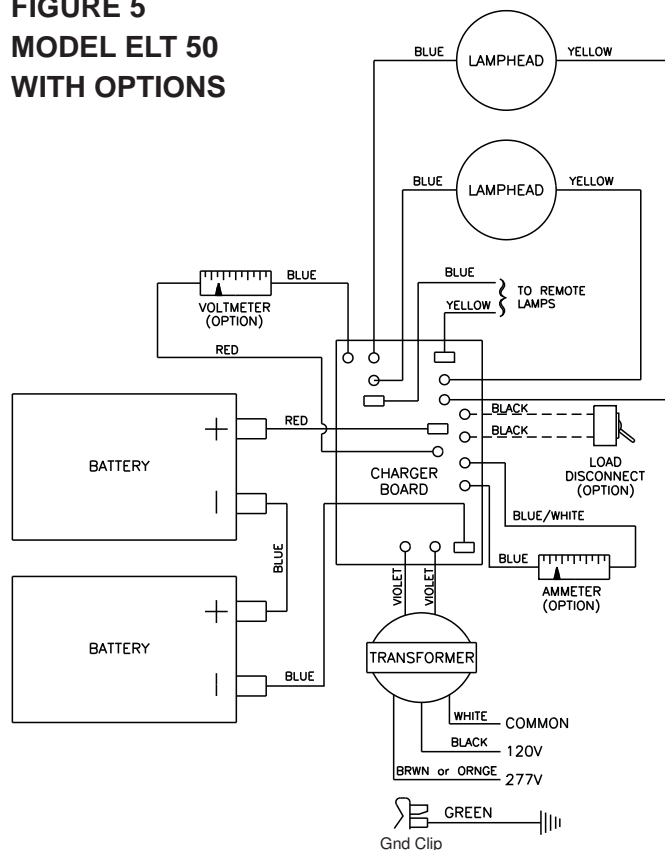
Important Battery Information:

Batteries are perishable items. For best results, it is recommended that the battery receive an initial charge within the first 18 months of the manufacture date of the fixture. The mfg date can be found on the outside of the unit packaging and on the UL label as part of the Date Code/Series. Note: First two digits in the date code will represent the year and the second two digits will represent the month. Batteries beyond the initial charge recommendation time frame can often times be returned to full capacity by fully charging the battery shortly after installation. If the battery will not fully charge after the initial charge, replacing the battery with a fresh battery will resolve the issue.

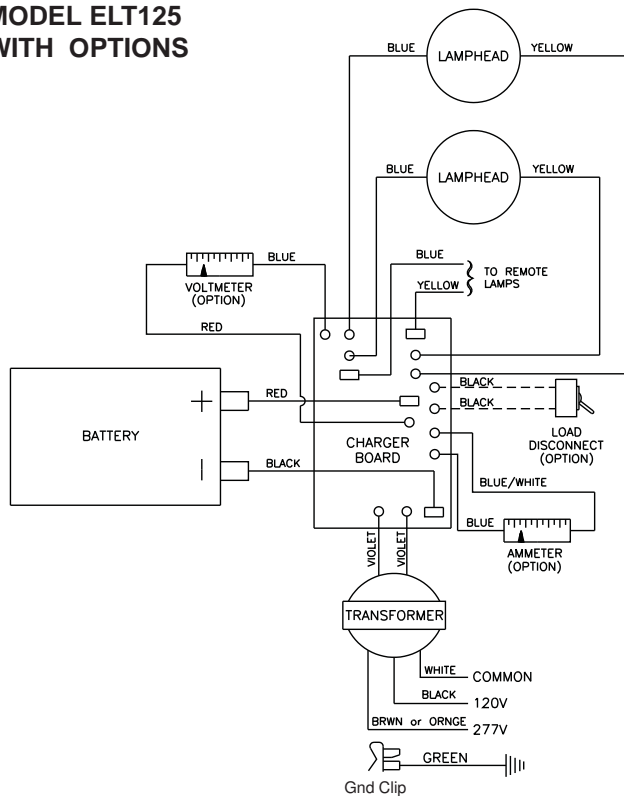
**FIGURE 4
MODEL ELT50 N
WITH OPTIONS**



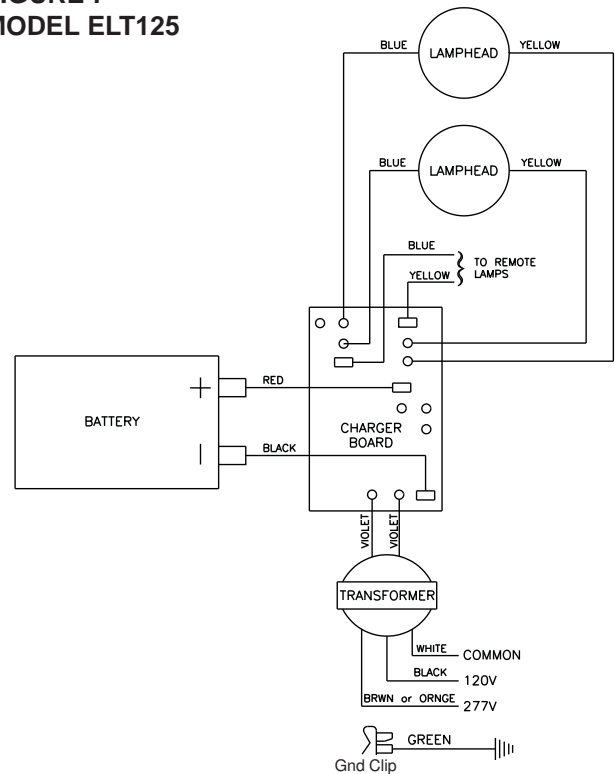
**FIGURE 5
MODEL ELT 50
WITH OPTIONS**



**FIGURE 6
MODEL ELT125
WITH OPTIONS**

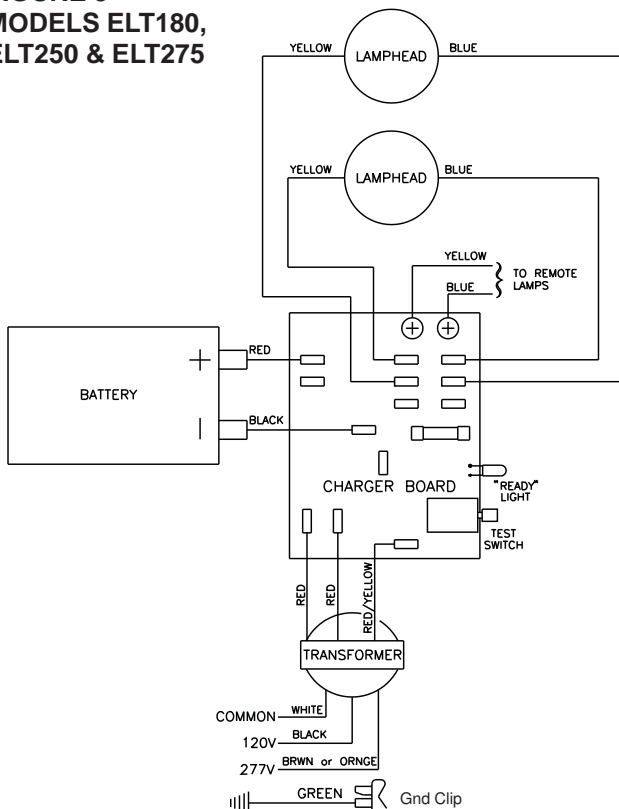


**FIGURE 7
MODEL ELT125**

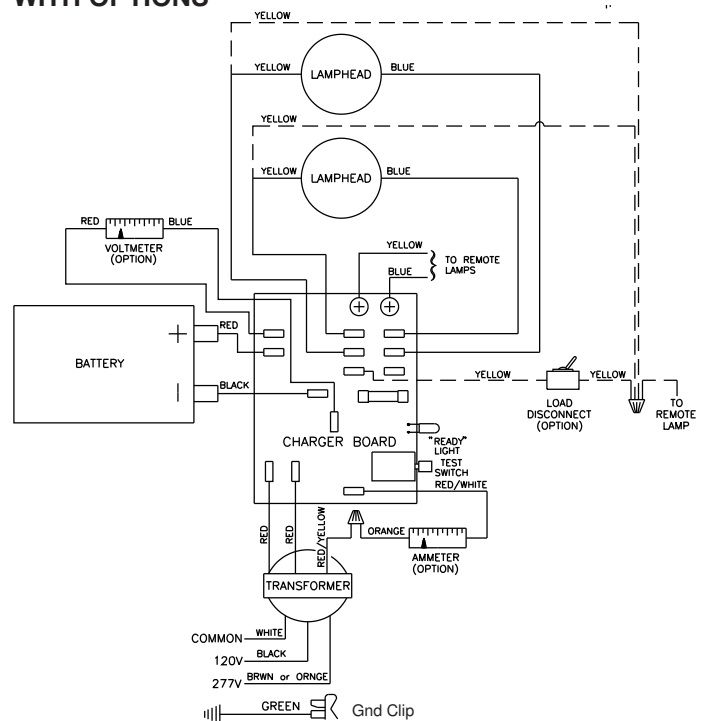


NOTE: Metal lampheads (option MT) lamp leads may be black.

**FIGURE 8
MODELS ELT180,
ELT250 & ELT275**



**FIGURE 9
MODELS ELT180,
ELT250, & ELT275
WITH OPTIONS**



NOTE: Yellow lamp lead routing, without load disconnect option, is indicated with a solid line. Yellow lamp lead routing with load disconnect option is indicated with a dashed line.



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