

INSTALLATION INSTRUCTIONS

IMPORTANT : READ CAREFULLY BEFORE INSTALLING FIXTURE.



WARNING: Risk of Fire/Electric Shock. If not qualified, consult an electrician.

WARNING: Risk of Electric Shock. Disconnect power at fuse or circuit breaker before installing or servicing.

WARNING: Risk of Burn. Disconnect power and allow fixture to cool before changing bulb or handling fixture.

WARNING: Risk of Personal Injury. Fixture may become damaged and/or unstable if not installed properly.

Tighten all fixture components to their recommended torque values. Ensure door is properly latched.

WARNING: Risk of Fire/Electrical Shock. Upside down installation can result in overheating or accumulation of water in fixture. Install right side up.

Tools Required Socket, 5/16" Socket, 3/4" Deep Well Socket, Electrical wiring tools.

NOTE: these luminaires are designed for outdoor lighting services, and should not be used in area of limited ventilation or in high ambient temperature enclosures. Construction is suitable for down lighting only. Best results will be obtained if installed and maintained according to the following recommendations.

1. Open housing door by squeezing thumb latch towards front of housing. To relieve latch pressure, compress gasket by pushing door into housing. Once the latch is disengaged, gently swing the door open. **FIG. 1**
2. Remove the door by opening it to 45° angle "half open/half closed" then lift it off the hook shaped hinges. **FIG. 2**
3. Remove the electrical compartment cover.

Hard Mount Version

- Hard mount electrical covers requires captive screws "1" & "2" to be loosened. Grab handle and remove cover. **FIG. 3a**

Power Tray Version

- Power tray version requires captive screw "1" to be loosened. **FIG. 3a**
- Grab handle and open power tray. **FIG. 3b**
- To remove power tray from housing, unhook pin through gap in power tray. Slide off of back pin and unplug the electrical connection. **FIG. 3c**

FIG. 1

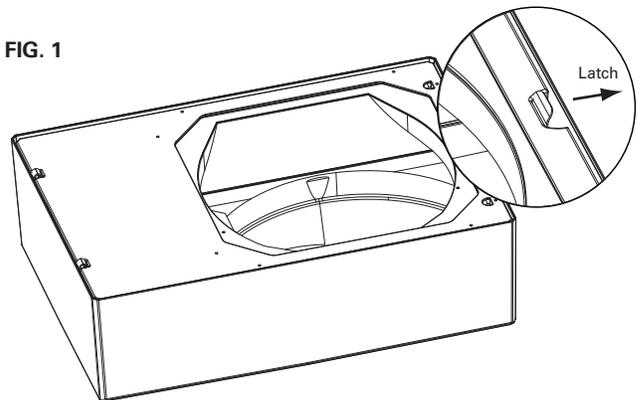


FIG. 2

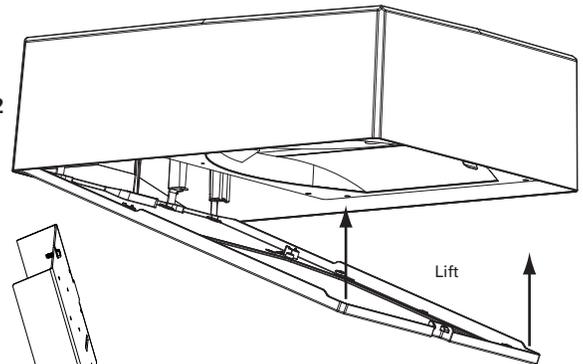


FIG. 3b

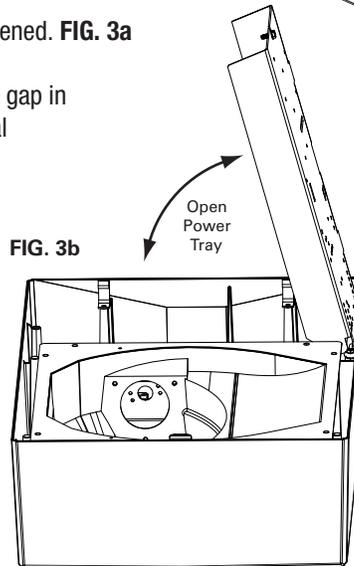


FIG. 3c

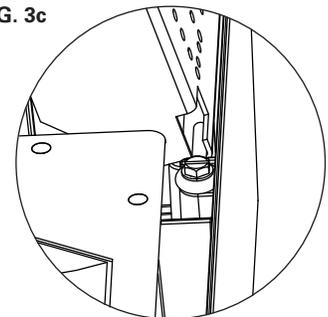
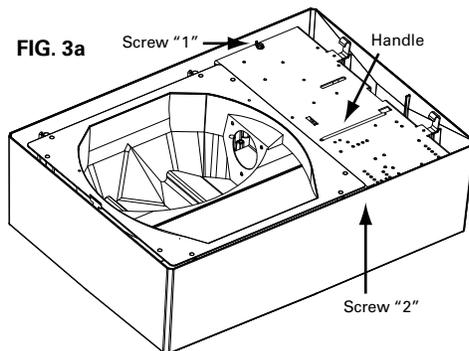


FIG. 3a



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Mounting the fixture

4a. Arm Mount (FIG. 4a)

- **Arm Mounting (Square Pole)** Lay the fixture on its' top with door removed. Remove pole cap allowing nut plate to be inserted into pole and align with bolt holes. Install threaded bolts into nut plate. Align arm (end with drain holes towards pole) and place over threaded bolts. Align holes in fixture with bolts. Route fixture supply leads through arm and into pole. Inside of fixture place lock washer and nuts onto threaded bolts, secure. Housing and arm must be square with pole. Tighten bolts to 30 ft lbs. Bolts must not be extended into fixture more than 1". Finish securing electrical connections inside of pole.
- **Arm Mounting (Round Pole)** Installation is the same as square pole except a round pole adapter is used against the round pole.

4b. Internal Mast Arm Mount (FIG. 4b)

- Loosen the four tenon clamp bolts for insertion of the mounting tenon. **Note:** for the 2" pipe size tenon, remove the tear away portion of the tenon entrance gasket. To remove, grasp the aluminum gasket with pliers and twist off the pre-cut portion of the gasket.
- Pull service lead wires through the mounting tenon until about 6" extends beyond the tenon end.
- Slide the luminaire onto the tenon while guiding the service lead wires. Make sure end of tenon is against stop in housing.
- Tighten 4 tenon clamp bolts. Note: fixture can be leveled by tightening front bolts differently than rear bolts. When fixture is level, torque all 4 clamp bolts to 100 inch-pounds. Tighten bolts in alternating pattern.
- Connect service lead wires to fixture leads and anchor leads in place so they are not in contact with the reflector surface or ballast surface.
- Replace electrical compartment cover removed in step 3.

FIG. 4a (Arm Mount)

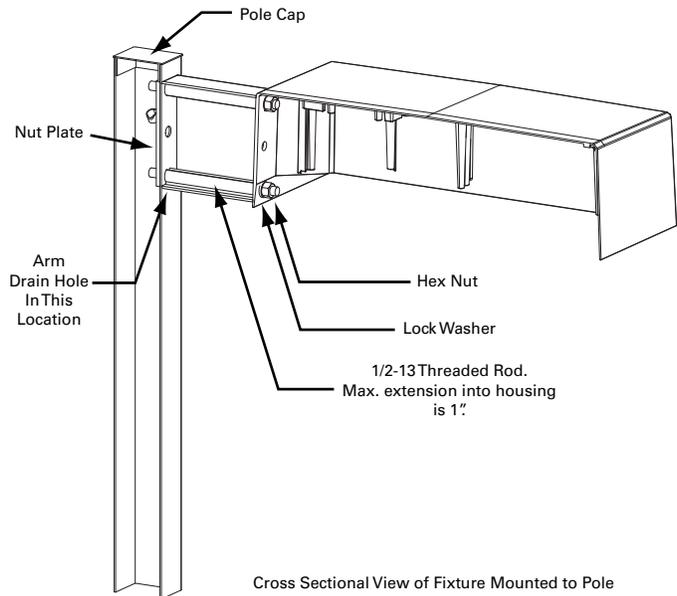
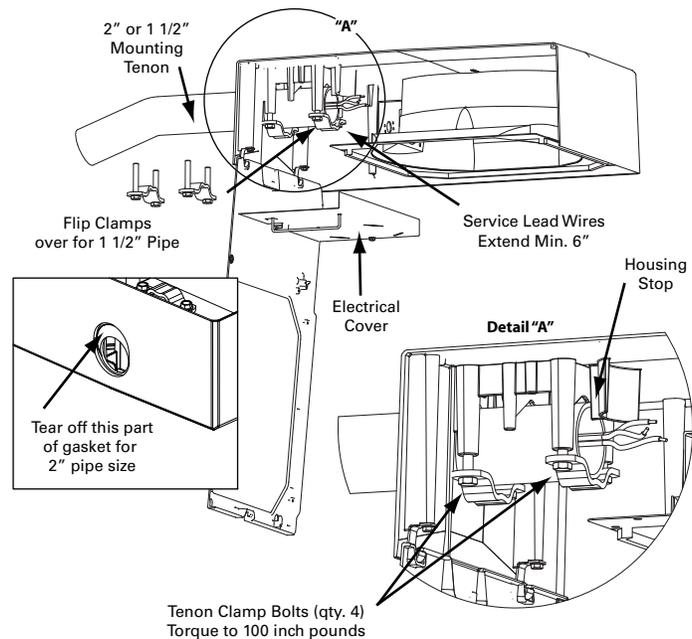


FIG. 4b (Internal Mast Arm Mount)



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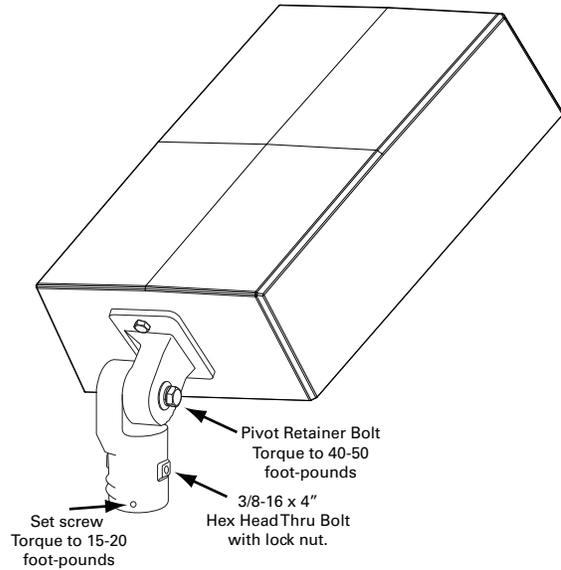
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4c. Slipfitter Mount (FIG. 4c)

- The integral slipfitter can be mounted on 2" (2 3/8" O.D.) pipe. Set screws and a thru bolt are provided to clamp it securely to the tenon. Thru bolt will require a drilled hole thru the arm or tenon. Use the slipfitter as a pattern to drill the thru hole. Secure electrical leads from the drill path. Remove slipfitter and clean burrs on tenon from drilled hole. Reinstall the slipfitter. Remove the cover plate from slipfitter and bring leads into compartment. Pull power supply leads and the ground lead into the bottom half of the slipfitter. Be sure the pivot retainer bolt is tightened securely after aiming is accomplished. Tighten all mounting bolts per FIG. 4c.

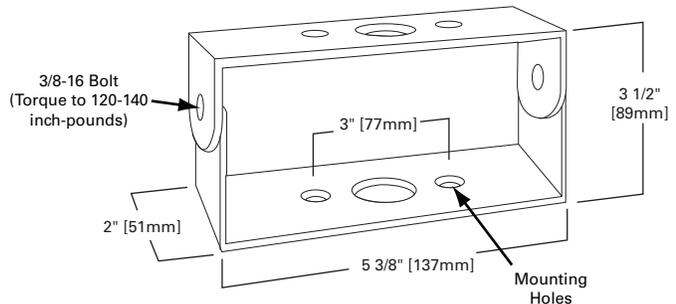
FIG. 4c (Slipfitter Mount)



4d. Trunnion Mount (FIG. 4d)

- If the unit is provided with a trunnion which can be mounted directly on a flat surface (Adapters are available for installation on building fronts, poles, crossarms, pipes, etc.) 14-3 SO cable is recommended for making electrical connection. The fixture is provided with a grommet and a strain relief (approximately 9/16" diameter). To maintain the seal, screws in the strain relief must be retightened whenever the seal is disturbed.

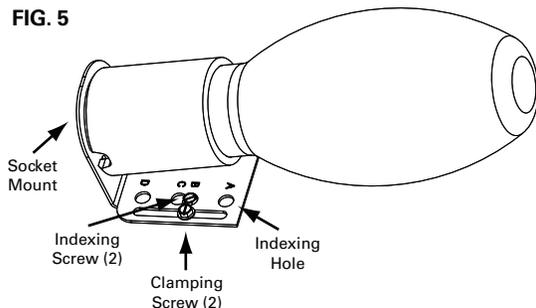
FIG. 4d (Trunnion Mount)



5. Socket Setting Adjustment—Type II or Type III Only (FIG. 5)

- Socket is normally factory set to provide IES Type II light distribution pattern. To obtain IES Type III distribution, proceed as follows (FIG. 5).
- Loosen the two (2) hex head clamping screws sufficiently for the socket to clear the indexing screws.
- Move socket bracket so that the indexing screws engage appropriate indexing holes. See table (FIG. 5) for socket position and resulting light pattern.

FIG. 5



Light Pattern	Socket Index Position	
IES Type	250W Clear HPS Lamp (5 3/4" LCL)*	All other Clear HID Lamps (5" LCL)*
II	A	B
III	C	D

NOTE: * Light Center Length.

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6. Light Distribution Some of the reflector options are directional oriented. The reflector can be rotated in 90° increments. Loosen reflector mounting screws and rotate reflector to desired orientation and then retighten the mounting screws. **FIG. 6.** Tools required 1/4" socket.

7. Wiring

Important: Dual voltage and multi-tap ballasts are factory-wired for 277V input. Before installation make certain supply and ballast voltages are compatible. For use with other line voltages, remove wire nut splicing the black lead from the quick disconnect plug and 277V lead from ballast. Cap off 277V lead with wire nut. Splice black lead from the quick disconnect plug with desired voltage lead from ballast.

Wire leads are to be routed from housing to pole. All wiring connections are to be made in the pole. Wire the fixture voltage leads to the supply voltage lead; fixture common lead to the supply neutral lead; and the fixture ground lead to the supply ground lead. If fixture is supplied with the ballast tray option, re-connect the polarized plug and replace the ballast tray.

8. Photocontrol Receptacle Loosen the two flathead screws to allow rotation of the receptacle. Insert screwdriver into center slot and rotate receptacle until indicator arrow points north. Retighten screws. Plug the photoelectric control into receptacle and twist into locked position. The photocontrol must contain a soft, resilient gasket fastened to the bottom surface to assure a proper weather seal between the control and the receptacle.

NOTE: The orientation procedure is only required for photocontrols which specifically require the cell to be aimed north. Otherwise factory orientation will work. Follow the directions recommended by the supplier of the photocontrol for proximity to light sources. Lighted signs, building surface reflection, floodlights, tree branches, etc. May affect final position of the photocontrol. **FIG. 7**

9. Lamp installation Open fixture door. Install the lamp by grasping it close to the base and rotating clockwise, tightening securely to engage socket center contact. Close the fixture door.

NOTE: Do not use lubricants on lamp base or socket as this will cause damage and void warranty.

10. Reflector and Lens Cleaning Open fixture door, dust reflector with soft, clean dry cloth. Do not use alkaline or acidic cleaners on reflector surfaces. Clean lens with non-abrasive glass cleaning solution.

NOTE: A regular maintenance schedule should be followed to retain optimal light output and reduce heat retention.

FIG. 6

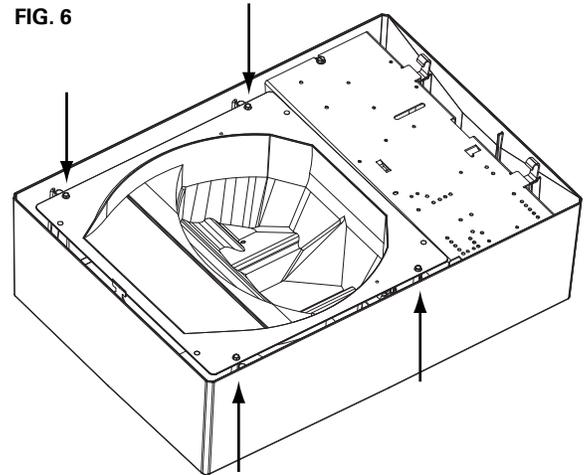
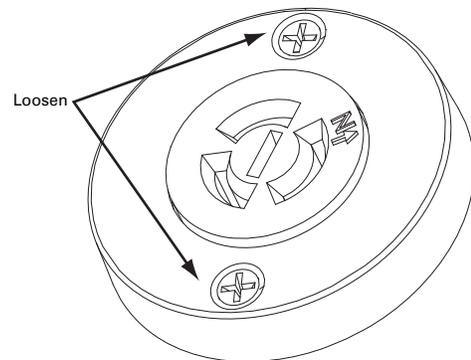


FIG. 7



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