

# INSTALLATION AND ASSEMBLY INSTRUCTIONS

## CHALLENGER® SERIES LUMINAIRE

**NOTE:** GR option (Ground Relamp) luminaires must use kit #161716.  
Use those instructions to install lamp.



**WARNING:** Risk of fire or electrical shock. Disconnect power before installing or servicing.

**WARNING:** Verify the existing input voltage and choose matching voltage on Multi-tap ballast before wiring.

### LUMINAIRE PREPARATION

1. Remove luminaire from packaging, taking care to protect lens and finish. Check packing slip to make sure all parts are present before proceeding.
2. Loosen door fasteners and open door. Do not put pressure on the inside of door frame when door is open.
3. Loosen ballast cover screw(s); remove ballast cover.

### ARM ASSEMBLY

4. Lay pole on raised surface. Protect pole finish with soft cloth. See Figure 2.
5. Insert nut plate into pole end, so the large center hole is closest to the pole end. Thread both all-thread rods into nut plate.
6. Slide arm over all-thread. Position luminaire over arm. Feed wire from luminaire through bracket and into pole.  
**IMPORTANT: Luminaire is supplied with 150C rated wiring!**
7. Align luminaire gasket at arm, so as to keep water from entering luminaire and arm.
8. Secure luminaire using serrated hex lock nut, then tighten. Repeat for other all-thread.

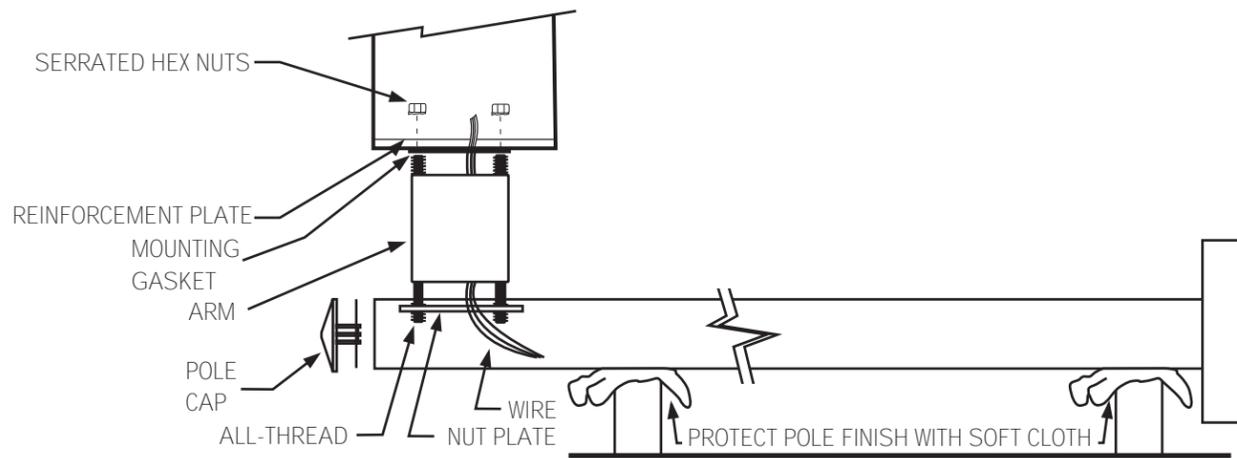


FIGURE 1

### WIRING CONNECTIONS

**WARNING:** Risk of electrical shock. High temperatures inside fixture. Make certain supply wiring is not "hot" before wiring. Make certain line voltage corresponds with ballast's primary voltage. See ballast label.

**IMPORTANT:** Luminaires are pre-wired at the factory for 277V! If a different voltage is required to match incoming supply voltage, use Figures 3A and 3B!

9. Wire luminaire per local code and the National Electrical Code. See Figure 2.

**IMPORTANT:** Wiring connections to be made inside pole ONLY!

**NOTE:** Make certain all unused leads are capped *individually*.

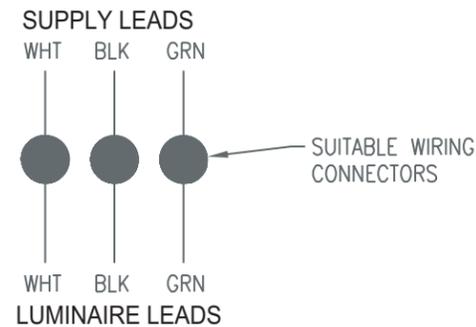


FIGURE 2

## CHALLENGER® SERIES, cont'd.

FIGURE 3A  
(Metal Halide)

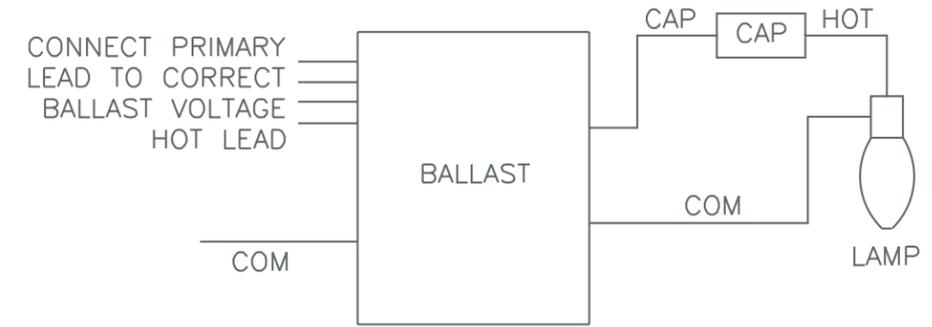
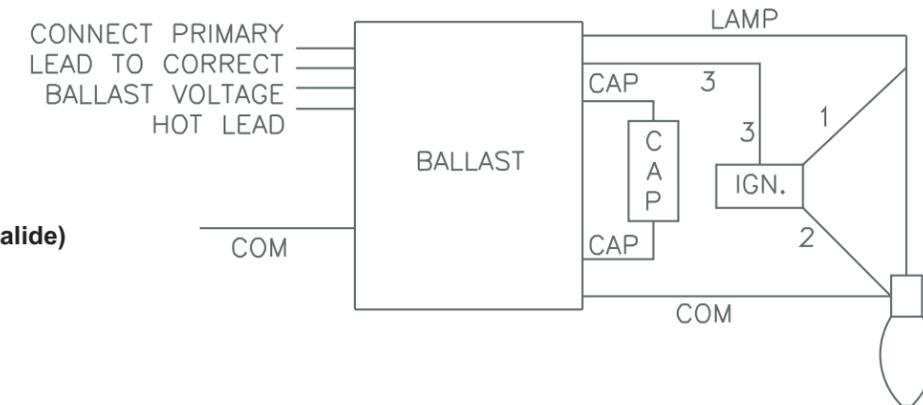


FIGURE 3B  
(Pulse Start Metal Halide)



### LUMINAIRE ASSEMBLY

10. Reinstall ballast cover. Secure by tightening screws.
11. Clean surface of reflector, plus inside and outside of door lens, with soft cloth and non-ammonia, non-static cleaner.
12. Check to make sure lamp type and wattage are the same as shown on luminaire label. To ensure best contact in socket, tighten, loosen, and then retighten lamp. Wipe lamp with a soft, dry, clean cloth.  
**NOTE: If lamp is dirty, operating hours and performance will significantly decrease.**
13. Close door and tighten fasteners. Install pole cap.
14. The luminaire and pole assembly are now ready for installation to anchor bolts. When erecting pole, use belts, slings or ropes - do not use chain or cable. Do not attach at luminaire arm.
15. Install base cover if supplied.



**Installation Questions?**  
Call LSI Field Service Department at:  
1-800-436-7800 Ext. 3300  
Fax: 1-877-861-1368