

GLOBAL TECH LED RETROFIT KIT INSTALLATION GUIDE – GTRHB-ACR2X-series #4

This model # GTRHB-ACR-2X-series TROD LED retrofit kit is designed to be installed High / Low Bay Luminaires with construction as shown in the figures, with minimum dimensions of 40.6 cm (16 in).



IMPORTANT - READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION

- ◆ WARNING– Risk of fire or electric shock. Luminaire wiring, LED driver or other electrical parts may be damaged when drilling for installation of the retrofit kit. Check for enclosed wiring or electric components.
- ◆ WARNING– Risk of fire or electric shock. LED retrofit kit installation requires knowledge of HID lighting luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- ◆ WARNING - Risk of fire or electric shock. Install this retrofit kit only in luminaires indicated in the installation instructions that have the construction features, dimensions and model number shown in the photographs and/or drawings.
- ◆ Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.
- ◆ WARNING –To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- ◆ “This luminaire has been modified and can no longer operate the originally intended lamp” shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance during re-lamping.
- ◆ Failure to install this product in accordance with the National Electric Code (NEC), or the Canadian Electrical Code (CSA 22.1), all applicable Federal, State and local electric codes as well as the specific Underwriters Laboratories (UL) safety standards for the installation, location and application may cause unsafe situations leading to serious personal injury, death, property damage and/or product malfunction.
- ◆ To avoid electric shock or component damage disconnect power before attempting installation or servicing.
- ◆ Avoid looking directly into the light beam with unprotected eyes as the intensity of the beam may damage the eyes.
- ◆ LED Retrofit Kit has been properly packaged to protect it during transit. Unpack, inspect and notify shipping agent and instructor if any damage is found.
- ◆ Save these instructions after installation of the LED retrofit kit.

GTR-HB-ACR-2X-SERIES (TROD)- Retrofit Kit Product Description (This kit comes pre-assembled):

2 each - LED engines, model # GTSOL5498 (or GTSOLM21) mounted on threaded Rod

2 each -LED Drivers, model # LV-100-24N-UNV-I, or LV150-24N-UNV-BB, or T1UNV024V-100LE, or EUV-150S024ST, or 60w LED Driver2 model # LV60-24N-UNV-F

5 each – WAGO 222-413 connectors

1 each –Installation Sticker to place in luminaire. Required after rewiring of luminaire.

Required tools and hardware:

Flat and Philips Head Screwdriver

½ inch Wrench

Cordless Drill

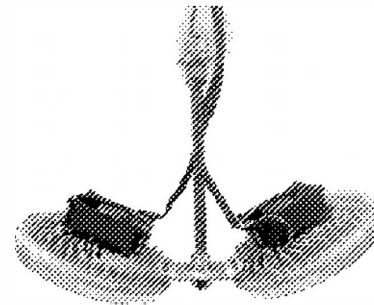
5/16inch hex driver

1/4inch hex driver

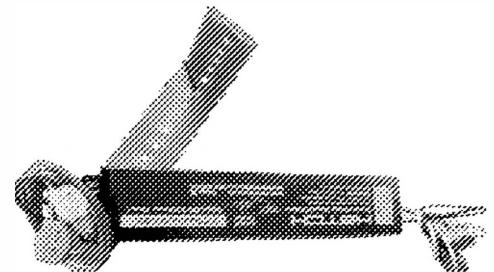
Wire Stripper/Cutter

Wire connectors

Safety glasses



LED Engines mounted with threaded rod – Side view



LED Drivers Mounted with L Bracket – Side View

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INSTALLATION INSTRUCTIONS

Note: This retrofit kit is to be installed in luminaires that are mounted with a minimum of 12 ft. above the ground plane.

1. Disconnect power prior to installation. Unhook fixture and place on a flat surface. See Figure 1
2. Separate the Ballast box from the upper housing attached to the Reflector. Remove lamp, socket, wire leads and Ballast. The HID lamp is classified as hazardous waste as it contains a small amount of mercury and lead. The lamps must be disposed of in accordance with the Universal Waste Rule published by the EPA on July 6, 1999. Check with state and local authorities for proper disposal. Global Tech LED recommends recycling of all spent HID fixtures and components.
3. This LED Retrofit kit is pre-wired and is provided in two parts. Double Check the input voltage to ensure that the power matches the Driver supplied with the LED retrofit kit prior to next steps. This information is clearly marked on the Driver. If it does not match, stop installation and contact Global Tech LED immediately.

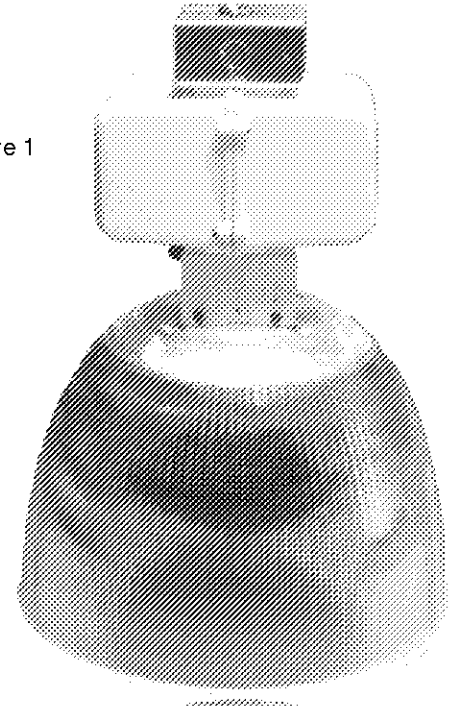


Figure 1

4. Install the LED Engines with threaded rod through the bottom of the reflector. See Figure 2

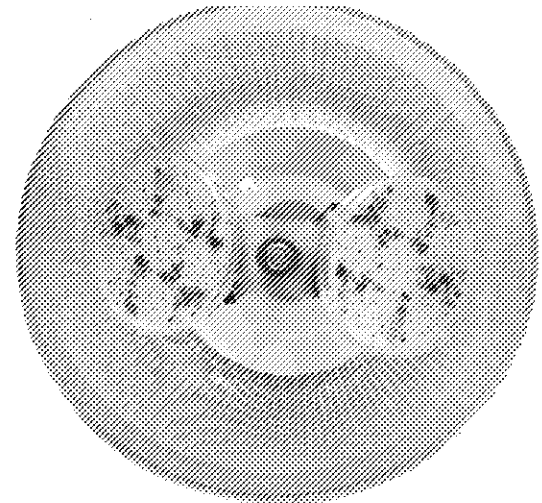


Figure 2

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5. Tighten the threaded rod/LED Engine assembly to the top of the reflector with the Hex Nuts and Washer, using a ½ inch wrench. Thread the wires through the top and attach the ground wire. See Figure 3

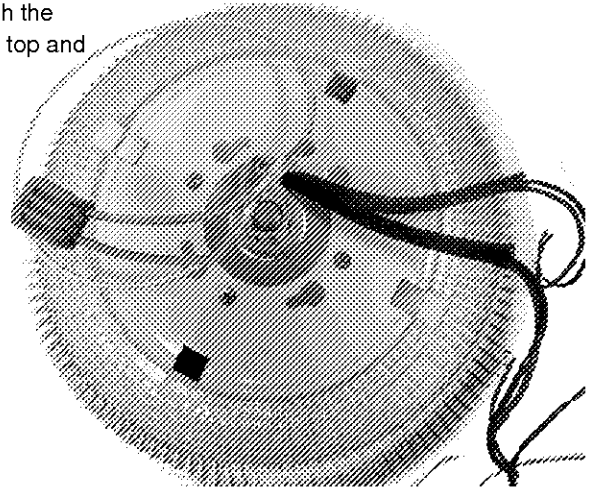


Figure 3

6. Secure the Drivers to the housing using the L Bracket and screw. Then connect the 24v lead wires and ground wire with the supplied wire connectors. Wago 222-413 connectors are included with the installation kit. (connectors are the same principle as a standard wire nut) Simply strip the conductors 12mm, lift the orange lever 90°, push the conductor into the connector and press orange lever down locking the wire into the connection. See Figure 4 The grounding of the luminaire housing shall be maintained.

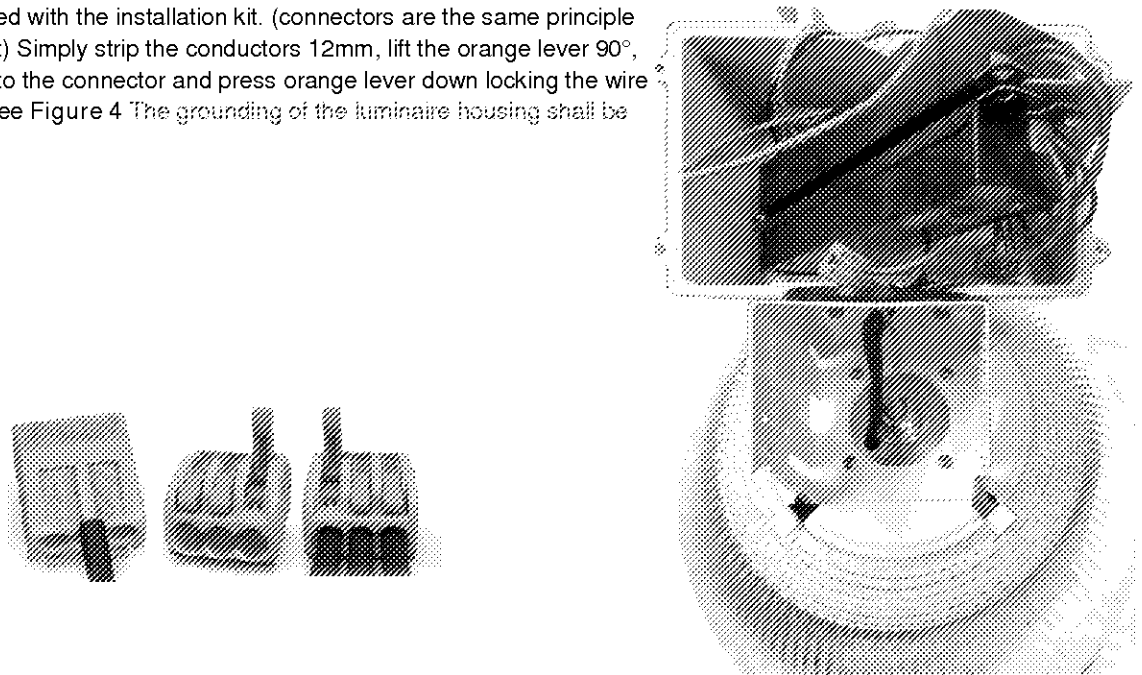


Figure 4

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7. Close the ballast box and secure tightly using the original screws provided. Then pull the wires through the top of the ballast box hook assembly. Hang the fixture from the hook and tighten the screw. See Figure 5
8. Connect the White (NEUTRAL) input power wire to the house power with a white wire using a wire connector, Connect the Black (HOT) input power wire to the house power with a black wire using a wire connector. Connect the Green (GROUND) wire to the house side ground wire using a wire connector as shown in Figure 6.

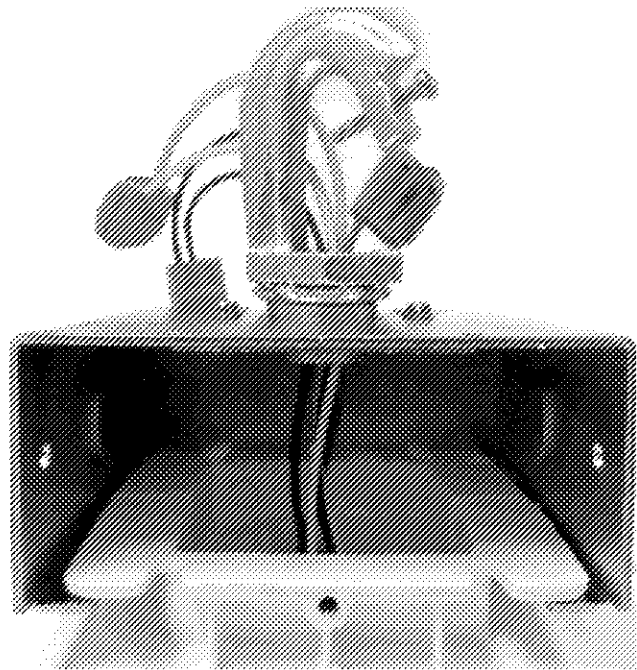


Figure 5

9. Turn on the power to the fixture and verify that the light is illuminated. Do not look directly at the LED light without proper eye protection.

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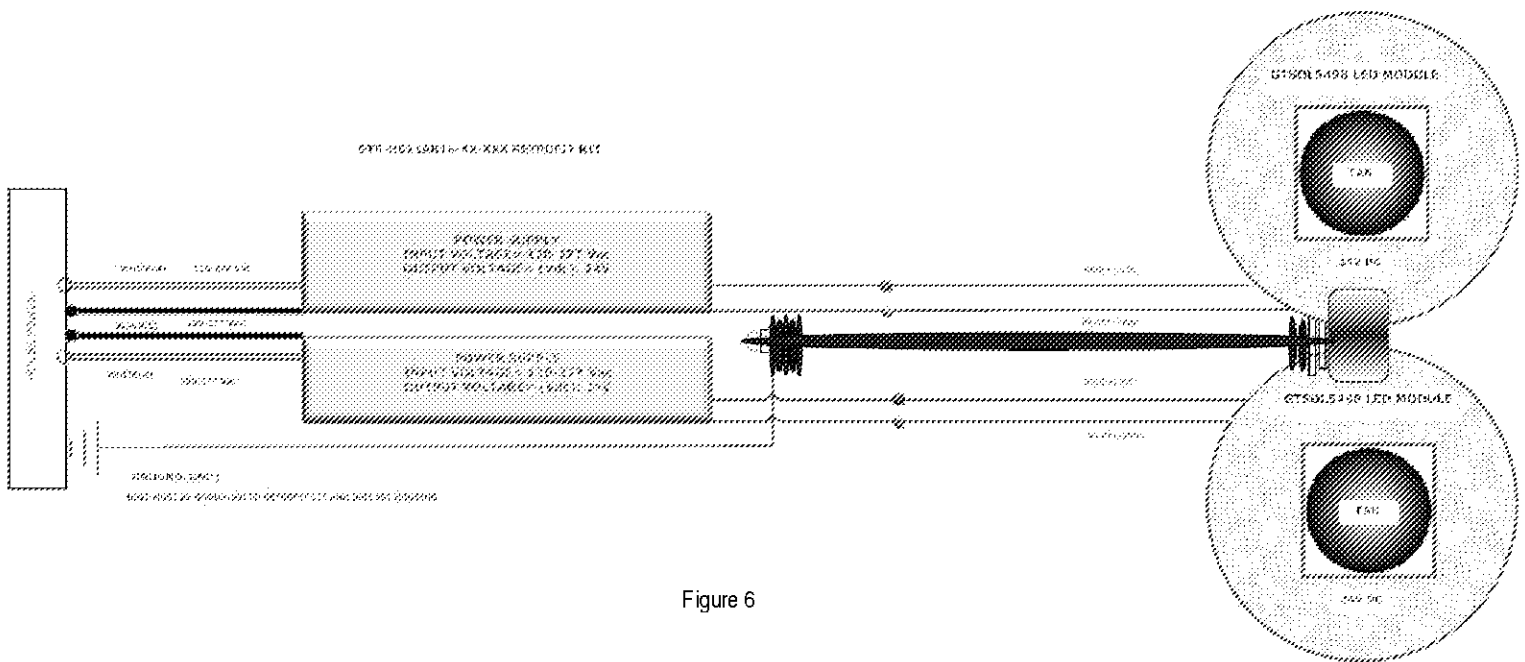


Figure 6