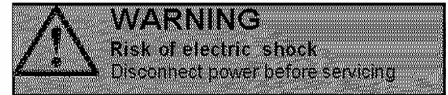


The GTR-HB-112-series (TROD, PLAT or UVHB) Retrofit Kit is designed to be installed into a Luminaire with the construction as shown in the figure(s) below, with minimum 22 inch diameter metal reflector



⚠ IMPORTANT - READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION

- ◆ 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 and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.
- ◆ Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- ◆ 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 HID lamp
- ◆ 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.

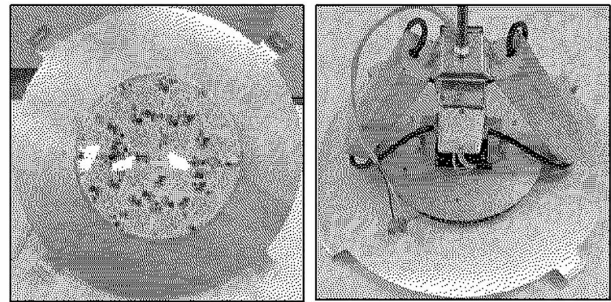
GTR-HB-112- series Retrofit Kit Product Description (This kit comes pre-assembled except the reflector disk and brackets):

- 1 each- LED engine model # GTSOL112
- 2 each- LED Driver model # LV192-24N-UNV-NN or ESV-300S024-ST or HVG320-24A
- 1 each- Universal mounting plate assembly
- 1 each- Top & Bottom Reflector Bracket with 4 side attachment screws
- 1 each- Bracket Retainer Disk
- 1 each- Installation sticker to place in luminaire. Required after rewiring of luminaire
- 2 each- Security screws (for orders requesting mounting below 12ft from ground plane)
- WAGO 222-413 connectors (see Figure 4)

Required tools and hardware:

- Flat and Philips Head Screwdriver
- Adjustable Wrench
- Wire Stripper/Cutter
- 12 each- 10-32 x 1/2" Machine Screws
- 12 each- #10 Washers
- 12 each- 10-32 Lock Washer Nut
- 1 each- 3/8" Hex Nut
- 1 each- 3/8" Lock Washer
- 1 each- 3/8" Washer

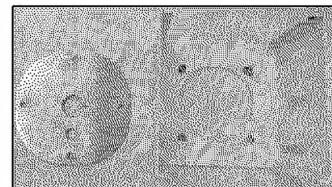
Universal Mounting Plate Assembly



Front View

Back View

Bracket Retainer Disk – Left
Reflector Bracket – Right (Only One Shown for Clarity)



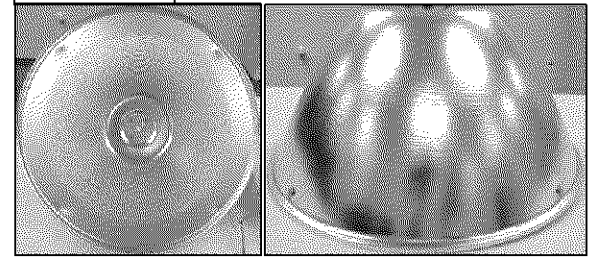
GLOBAL TECH LED RETROFIT KIT INSTALLATION GUIDE – GTR-HB-112- series

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INSTALLATION INSTRUCTIONS

1. Disconnect power from the supply source prior to the start of installation.
NOTE: To reduce the risk of shock, follow proper lock-out tag-out procedures per local and state code.
2. Remove HID lamp, reflector, socket, ballast (ignitor and capacitor may not be present) and wires from existing high bay ballast housing. After removal of all components, a typical reflector will appear as shown in **Figure 1**. Note - 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 spent HID fixtures and components
3. Reflector to Ballast housing assembly per Figure 2:
 - a. Place the bottom part of the Reflector Bracket "D" on top of the reflector "B" and the round Bracket Retainer Disk "C" on the inside top of reflector, and fasten them all together using four 10-32 x 1/2" machine screws, washers and lock washer nuts supplied.
 - b. Insert the Retrofit Kit "A" up thru the reflector bottom. Guide the top of threaded rod and up thru the top center of the reflector. Then, guide the wiring thru the small hole to the side of the center hole in the round Bracket Retainer Disk.
 - c. Fasten the threaded rod to the top of the reflector "F" using the 3/8" washer, lock washer and nut supplied.
 - d. Attach the bottom of the Retrofit to the sides of the reflector "A" using the four 10-32 x 1/2" screws, washers and lock washer nuts supplied. Note – you will skip this step when installing a "TROD" series retrofit kit.
 - e. Connect the top part of the Reflector Bracket "E" to the bottom of the existing ballast housing and fasten into place using four 10-32 x 1/2" machine screws, washer and lock washer nuts supplied.
 - f. Run the wiring from the Retrofit Kit thru the existing ballast housing and into the top j-box area (see figure 3). Remove the j-box access panel to complete the wiring process.
 - g. Attach the bottom Reflector Bracket to the top Reflector Bracket and secure from the sides with four bracket screws supplied.
4. This LED Retrofit kit is pre-wired. It consists of an 2 LED driver, LED engine or module, fan, and threaded rod attached to an aluminum mounting plate, see page 1 for details. Note – the "TROD" retrofit does not have an aluminum mounting plate. Check input voltage being supplied to fixture to ensure that the voltage matches the driver(s) voltage range supplied with the LED retrofit kit prior to moving to the next step. The information is clearly marked on the driver(s) label(s), if it does not match, stop installation and contact Global Tech LED.
5. Wago 222-413 connectors are included with the installation kit. (connectors are the same principle as a standard wire nut) Simply strip the wire/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)
6. Connect the White (NEUTRAL) input power wire from the supply source with a white wire of the retrofit using the included Wago connector. Connect the Black (HOT) input power wire from the supply source with a black wire of the retrofit using the included Wago connector. Connect the Green (GROUND) input power wire from the supply source with a ground wire of the retrofit using the included Wago connector. The grounding of the luminaire housing shall be maintained. See electrical schematic for more details
7. Close the ballast housing j-box access panel and secure it in place using the existing hardware See figure 5 for an overview of a typical completed High Bay retrofit.
8. 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.

Figure 1



Bottom View

Side View

Figure 2

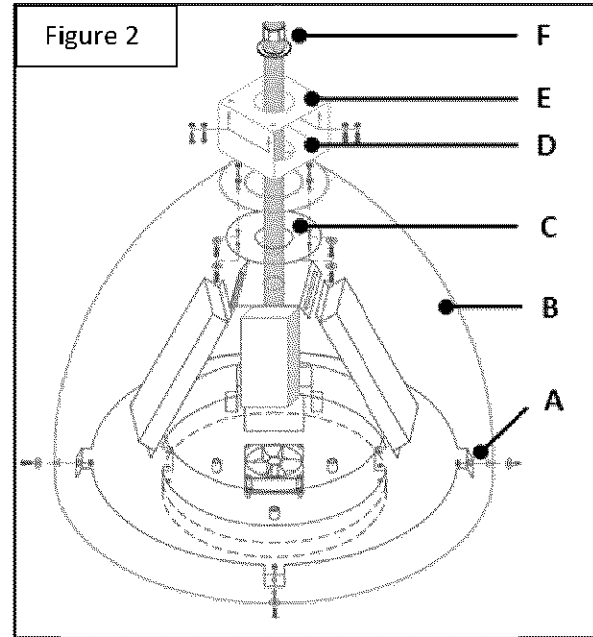


Figure 3

J-Box

Figure 4

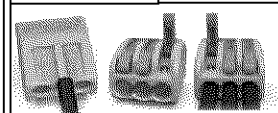
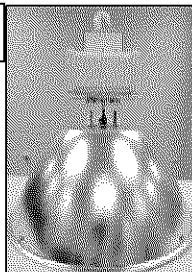


Figure 5



Retrofit Complete

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Hook-up Schematic

