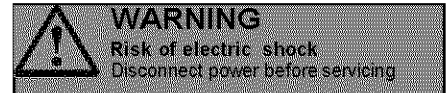


The GTR-AR-112-series (PLAT, UVHB or UVSB) Retrofit Kit is designed to be installed into a Luminaire with the construction as shown in the figure(s), with minimum dimensions of 400mm x 400mm x 165mm / 15.7 in x 15.7 in x 6.5 in



⚠ 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.

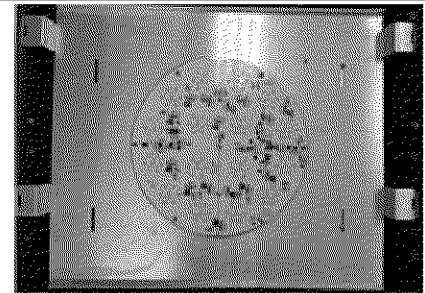
GTR-AR-112- series Retrofit Kit Product Description (This kit comes pre-assembled):

- 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- 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)

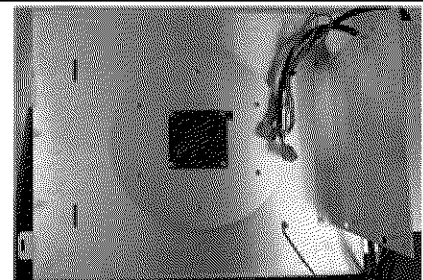
Required tools and hardware:

- Flat and Philips Head
- Screwdriver Wire
- Stripper/Cutter
- Wire connectors

Universal Mounting Plate Assembly – Front View



Universal Mounting Plate Assembly – Back View



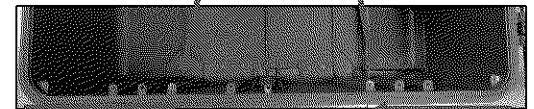
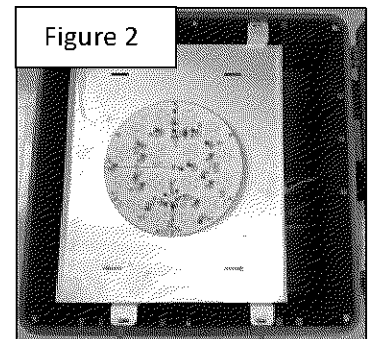
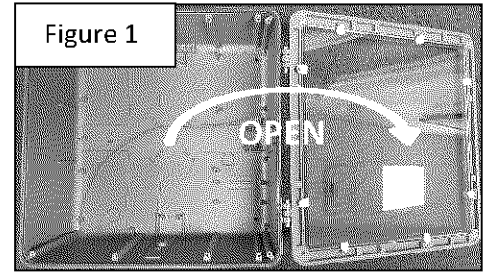
GLOBAL TECH LED RETROFIT KIT INSTALLATION GUIDE – GTR-AR-112- series

The GTR-AR-112-series (PLAT, UVHB or UVSB) Retrofit Kit is designed to be installed into a Luminaire with the construction as shown in the figure(s), with minimum dimensions of 400mm x 400mm x 165mm / 15.7 in x 15.7 in x 6.5 in

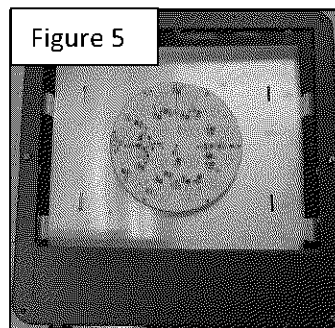
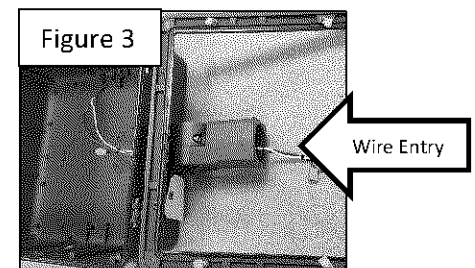
INSTALLATION INSTRUCTIONS

Note: This retrofit kit is only to be installed in luminaires that are mounted with a minimum of 12 ft. above the ground plane. For luminaires mounted below 12 ft. from the ground plane, 2 Security screw will be provided with the kit.

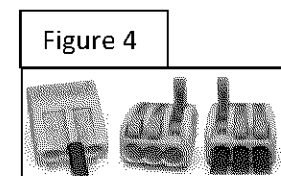
1. Disconnect power from the supply source prior to the start of installation.
NOTE: To reduce the risk of shock, follow proper lock-out tag-out procedures per local and state code.
2. Remove all screws which secure lid to the main housing. Open housing Lid by swinging the lower part down and away from hinge side. (See Figure 1)
3. HID lamp, reflector, socket, wire leads and ballast. Save the screws as they will be used to install the LED retrofit kit insert. After removal of all components, fixture will appear as shown in Figure 1. 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
4. This LED Retrofit kit is pre-wired. It consists of an LED driver, LED engine, fan and an aluminum mounting plate designed specifically for the opening, see page 1 for details. 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. Attach the mounted LED retrofit kit to the side stand-offs, third from either end, using the screws removed from step 2. Both sides need attached (See Figure 2). Thread the black, white and green ground wires out through the wire entry port or opening in the back of the fixture (See Figure 3).
6. 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)
7. Connect the White (NEUTRAL) input power wire from the supply source with a white wire of the driver using the included Wago connector. Connect the Black (HOT) input power wire to the supply source with a black wire of the driver using the included Wago connector. Connect the Green (GROUND) wire to the supply source ground wire using the included Wago connector. The grounding of the luminaire housing shall be maintained. See electrical schematic for more details.
8. Close the fixture lid and tighten the fixture screws into the same place from which they were removed from step 2. For luminaires mounted below 12 ft. from the ground plane, use the 2 security screws included with the kit (See 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.



1 2 3 3 2 1
Connect Both Sides as Shown



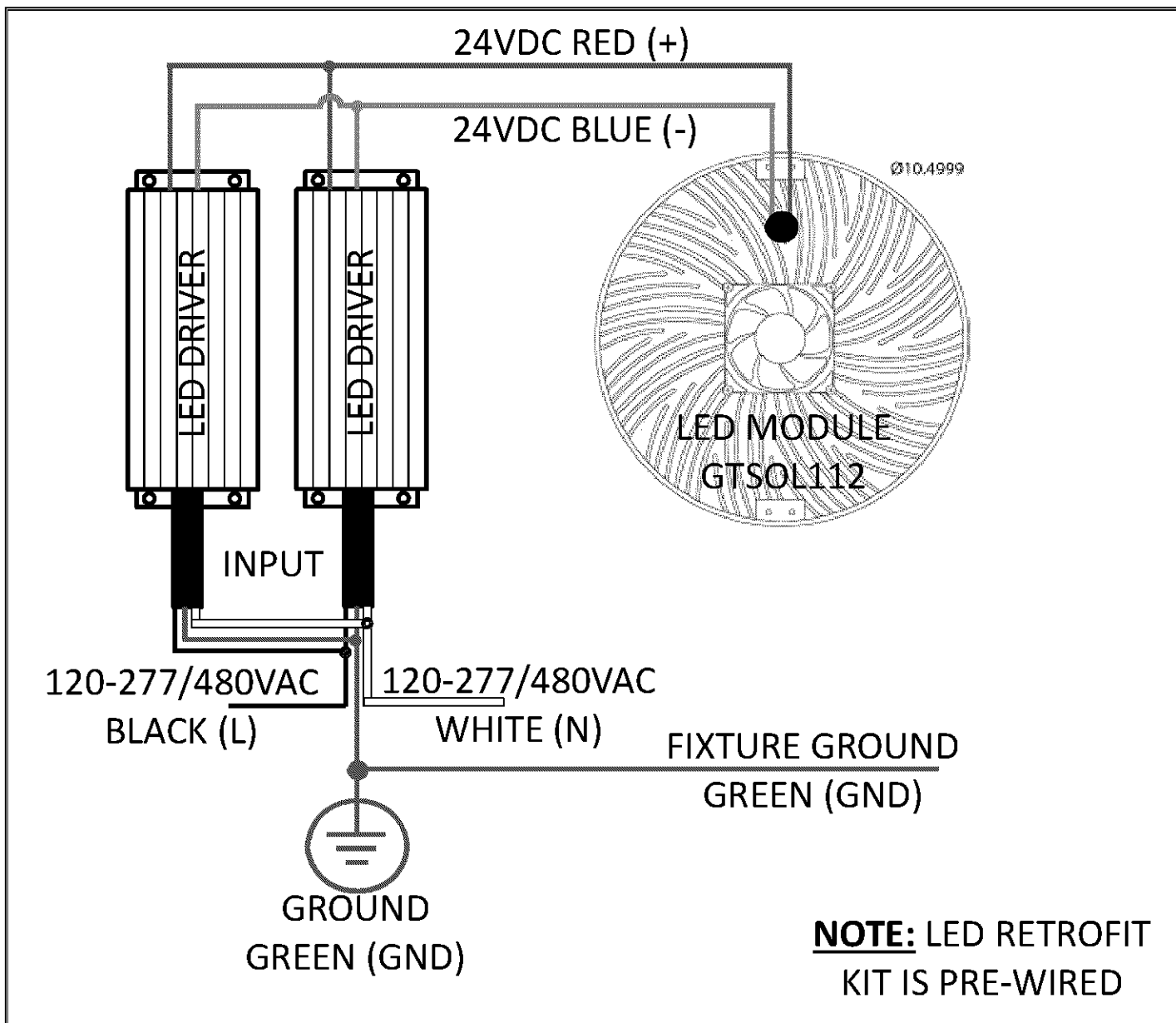
Retrofit Complete



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

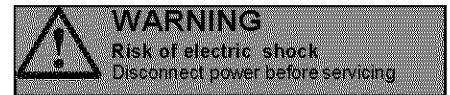
The GTR-AR-112-series (PLAT, UVHB or UVSB) Retrofit Kit is designed to be installed into a Luminaire with the construction as shown in the figure(s), with minimum dimensions of 400mm x 400mm x 165mm / 15.7 in x 15.7 in x 6.5 in

Hook-up Schematic



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

The GTR-AR-112-series (PLGT) Retrofit Kit is designed to be installed into a Luminaire with the construction as shown in the figure(s), with minimum dimensions of 400mm x 400mm x 165mm / 15.7 in x 15.7 in x 6.5 in



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.
- ◆ The Luminaire can be installed up to a 45 degree incline or horizontal. Exceeding the 45 degree angle voids your warranty and may result in early life or failure of the luminaire.

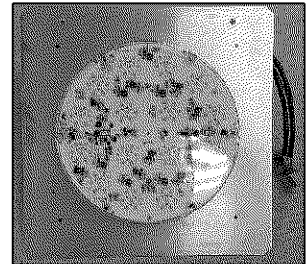
GTR-AR-112- series Retrofit Kit Product Description (This kit comes pre-assembled):

- 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- 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)

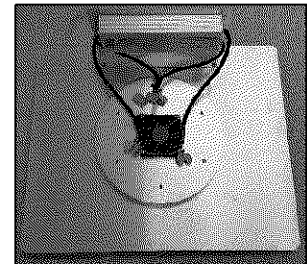
Required tools and hardware:

- Flat and Philips Head
- Screwdriver Wire
- Stripper/Cutter
- Wire connectors

Universal Mounting Plate Assembly – Front View



Universal Mounting Plate Assembly – Back View



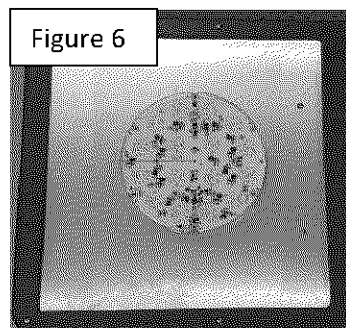
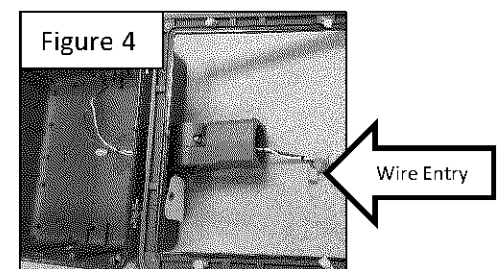
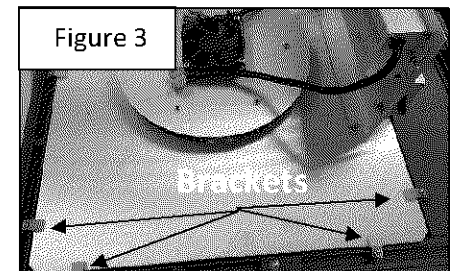
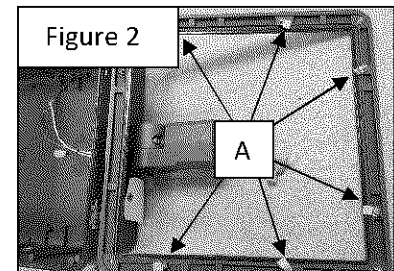
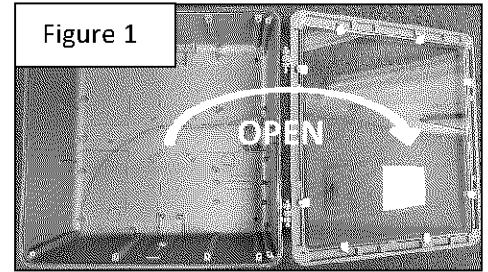
GLOBAL TECH LED RETROFIT KIT INSTALLATION GUIDE – GTR-AR-112- series

The GTR-AR-112-series (PLGT) Retrofit Kit is designed to be installed into a Luminaire with the construction as shown in the figure(s) below, with minimum dimensions of 400mm x 400mm x 165mm / 15.7 in x 15.7 in x 6.5 in

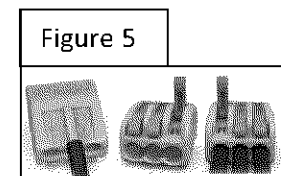
INSTALLATION INSTRUCTIONS

Note: This retrofit kit is only to be installed in luminaires that are mounted with a minimum of 12 ft. above the ground plane. For luminaires mounted below 12 ft. from the ground plane, 2 Security screw will be provided with the kit.

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 all screws which secure lid to the main housing. Open housing Lid by swinging the lower part down and away from hinge side. (See Figure 1)
3. Remove glass panel, HID lamp, reflector, socket, wire leads and ballast. Save the screws and glass support brackets Figure 2 & 2A as they will be used to install the LED retrofit kit insert. After removal of all components, fixture will appear as shown in Figure 1. 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
4. This LED Retrofit kit is pre-wired. It consists of an LED driver, LED engine, fan and an aluminum mounting plate designed specifically for the opening, see page 1 for details. 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. Attach the mounted LED retrofit kit to the same location where the glass panel was removed using the existing glass support brackets saved during the removal process (See Figure 3 – only one side of brackets is shown). Thread the black, white and green ground wires out through the wire entry port or opening in the back of the fixture (See Figure 4).
6. 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 5)
7. Connect the White (NEUTRAL) input power wire from the supply source with a white wire of the driver using the included Wago connector. Connect the Black (HOT) input power wire to the supply source with a black wire of the driver using the included Wago connector. Connect the Green (GROUND) wire to the supply source ground wire using the included Wago connector. The grounding of the luminaire housing shall be maintained. See electrical schematic for more details.
8. Close the fixture lid and tighten the fixture screws into the same place from which they were removed from step 2. For luminaires mounted below 12 ft. from the ground plane, use the 2 security screws included with the kit (See Figure 6).
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.



Retrofit Complete



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

The GTR-AR-112-series (PLGT) Retrofit Kit is designed to be installed into a Luminaire with the construction as shown in the figure(s), with minimum dimensions of 400mm x 400mm x 165mm / 15.7 in x 15.7 in x 6.5 in

Hook-up Schematic

