

IMPORTANT: FOR YOUR PROTECTION, YOU MUST CAREFULLY READ ALL WARNINGS AND INSTRUCTIONS IN THEIR ENTIRETY PRIOR TO INSTALLATION, OPERATION, SERVICE OR MAINTENANCE. FAILURE TO DO SO CAN RESULT IN DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. If you do not understand these warnings and instructions, or if additional information is desired, please contact Signify at SanMarcos.TSC@signify.com phone 800-227-0758.

- Installation, service and maintenance of luminaires must be performed by a qualified professional and in accordance with all federal, state and local laws, regulations and electrical codes. This professional should be familiar with the construction and operation of this product and any hazards involved. If not qualified, do not attempt installation, service or maintenance.
- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts, abrasions and other hazards, please read all warnings and instructions included with the luminaire, on the luminaire's packaging and affixed to the luminaire itself.
- Maintenance of the luminaires should be performed by person(s) familiar with the luminaire's construction and operation and any hazards involved.



WARNING

RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY

- Disconnect or turn off power before attempting any installation, service or maintenance.
- Verify that supply voltage is correct by referencing the luminaire label information.
- Make all electrical and ground connections in accordance with the National Electrical Code (NEC) and any other applicable laws, regulations or codes.
- All wiring connections should be capped with UL-approved wire connectors.



WARNING

RISK OF PERSONAL INJURY

- Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- Avoid direct eye exposure to the light source while it is on.



WARNING

RISK OF FIRE OR PERSONAL INJURY

- Keep combustible materials away from LED/lamp & lens
- Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.



WARNING

RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY

- Allow Led/lamp & lens to cool before handling.
- Do not touch enclosure or light source
- Do not exceed maximum wattage marked on luminaire label.
- Follow all manufacturer's warnings, recommendations, instructions and restrictions for driver type, burning position, mounting locations and replacement.



CAUTION

RISK OF PRODUCT DAMAGE

- Never connect luminaires and/or components under load with supply voltage turned on.
- Do not mount or support these luminaires in a manner that can cut the outer jacket or damage wire insulation.
- Do not restrict fixture ventilation. Allow for some volume of airspace around luminaire. Avoid covering luminaire with insulation, foam or other material that will prevent convection or conduction cooling.
- Do not exceed luminaire maximum ambient temperature.
- Do not modify the luminaire.
- Only use luminaire in its intended application and location.
- Led products are polarity sensitive. Ensure proper polarity before installation.
- Electrostatic Discharge (ESD) can damage LED. Personal grounding equipment must be worn during all installation and servicing of the luminaire.
- Do not touch individual electrical components as this can cause ESD, shorten LED life, or impact LED performance.
- Some components inside the luminaire may not be serviceable. In the unlikely event your luminaire may require service, stop using it immediately and contact SanMarcos.TSC@signify.com phone 800-227-0758.
- Always read the luminaires complete installation instructions prior to installation for any additional luminaire specific warnings.
- In the case of HID or Fluorescent luminaires, regular re-lamping is required to keep luminaire operating within safe limits
- **Do not install damaged product.** Handling and installing damaged products can potentially increase the risks mentioned. In case of damage and/or missing parts upon arrival of the luminaire, please contact SanMarcos.TSC@signify.com phone 800-227-0758.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to SanMarcos.TSC@signify.com phone 800-227-0758.
- Please see luminaire specific Installation and Maintenance Instruction for additional warnings or any applicable FCC or regulatory statements. Failure to follow any of these Instructions could void luminaires warranties.

Luminaire Maintenance

- Regular luminaire maintenance programs are recommended.
- It is recommended to clean the outside of the luminaire and the refractor/lens.
- Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user.
- If clean water is not sufficient for cleaning, use a neutral, synthetic, not-scratching and not-abrasive cleaning substance.
- Never use alkaline and/or acetous cleaning substances.
- Make sure that the cleaning substance is carefully removed by rinsing with lots of clean water.
- Signify recommends using a cleaning solution that has a PH between 5 and 8.
- Recycle: For information on how to recycle electronic products and components, please visit www.epa.gov.

INSTALLATION INSTRUCTIONS	GL18 LED RETRO FIT (RK)	PN: 443561060710	Rev: B
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WARNING: RISK OF FIRE OR ELECTRIC SHOCK. LED RETROFIT KIT INSTALLATION REQUIRES KNOWLEDGE OF LUMINAIRE ELECTRICAL SYSTEMS. IF NOT QUALIFIED, DO NOT ATTEMPT INSTALLATION. CONTACT A QUALIFIED ELECTRICIAN.

WARNING: RISK OF FIRE OR ELECTRIC SHOCK. INSTALL THIS KIT ONLY IN THE LUMINAIRE THAT HAS THE CONSTRUCTION FEATURES AND DIMENSIONS SHOWN IN THE PHOTOGRAPHS AND/OR DRAWINGS.

CAUTION: 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.

CAUTION: INSTALLATION OF THIS RETROFIT ASSEMBLY REQUIRES A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF FLUORESCENT/HID LUMINAIRE ELECTRICAL SYSTEMS AND THE HAZARD INVOLVED.”

CAUTION: UNLESS OTHERWISE INDICATED, DO NOT MAKE OR ALTER ANY OPENINGS IN THE COMPARTMENT OF WIRING OR ELECTRICAL COMPONENTS DURING INSTALLATION OF THIS RETROFIT ASSEMBLY. PLUG ALL UNUSED OPENINGS IN THE COMPARTMENT OF WIRING OR ELECTRICAL COMPONENTS.”

THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY UL OR AUTHORITIES HAVING JURISDICTION.

FOR EXISTING HID MODELS: G18

RETROFITTED LUMINAIRE MARKINGS- A label shall be included as part of the retrofit kit for affixing to the luminaire and shall indicate the following:

REPLACE ONLY WITH GARDCO LIGHTING G18. G18 IS REPLACED WITH LED KIT OR LED DRIVER, AS APPLICABLE.

IMPORTANT: READ ALL INSTRUCTIONS BEFORE PERFORMING ANY WORK. BE SURE ALL POWER IS OFF PRIOR TO INSTALLING LUMINAIRES.

WARNING: FIXTURE MUST BE GROUNDED IN ACCORDANCE WITH APPROPRIATE CODES. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY.

1. FIRST REMOVE EXISTING DOOR BY PULLING THE LATCH UPWARD TO OPEN THE DOOR. OPEN DOOR AS FAR AS THE SAFETY CABLE WILL ALLOW, DISENGAGE SAFETY CABLE FROM THE DOOR, WHICH WILL NOW ALLOW THE DOOR TO OPEN FURTHER AND WILL GIVE ACCESS TO THE HINGE CLAMP LOCK. ROTATE HINGE CLAMP LOCK TO FREE HINGE CLAMP. PULL HINGE CLAMP AWAY FROM THE HINGE. CAREFULLY ROTATE THE DOOR TOWARDS THE CLOSED POSITION UNTIL HINGE DISENGAGES, SEE FIGURE 1 BELOW,

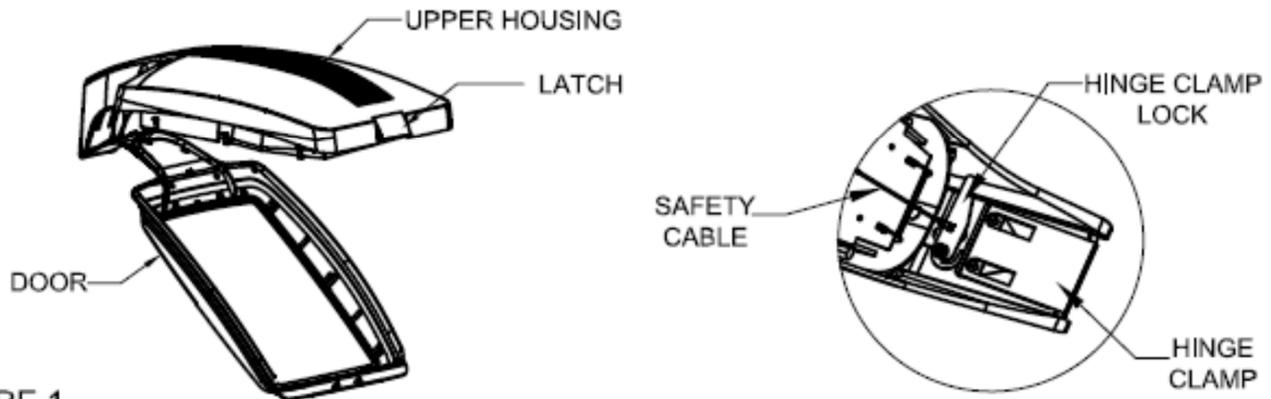


FIGURE 1

2. ONCE DOOR IS REMOVED THE EXISTING REFLECTOR IS ACCESSIBLE FOR REMOVAL. LOOSEN & REMOVE (2) THUMBSCREWS AND (2) #10 SCREWS ON HINGE BRACKETS. DISCONNECT INPUT CONNECTOR FROM BALLAST ASSEMBLY AND REMOVE REFLECTOR ASSEMBLY. REMOVE LAMPHOLDER AND LAMPHOLDER LEADS.

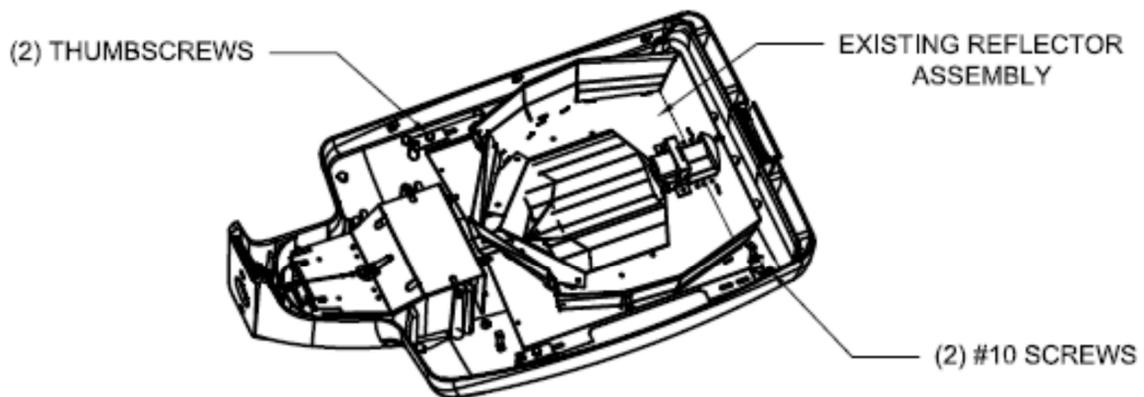


FIGURE 2

IMPORTANT: READ ALL INSTRUCTIONS BEFORE PERFORMING ANY WORK. BE SURE ALL POWER IS OFF PRIOR TO INSTALLING LUMINAIRES.

WARNING: FIXTURE MUST BE GROUNDED IN ACCORDANCE WITH APPROPRIATE CODES. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY.

3. REMOVE BALLAST ASSEMBLY BY REMOVING SCREWS AND LETTING BALLAST ASSEMBLY SWING DOWNWARD. UNHOOK HINGE FROM BALLAST ASSEMBLY AND DISCONNECT WIRES, SEE FIGURE 3.

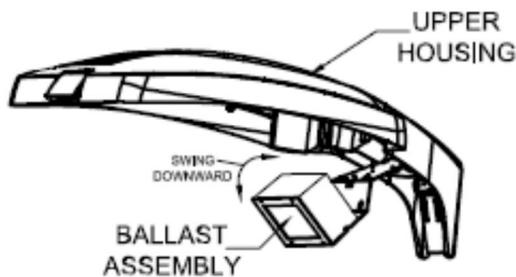


FIGURE 3

4. REMOVE BALLAST HINGE BRACKET, (2) #10 SCREWS AND (3) WIRE NUT INPUT LEADS, SO THAT NEW INPUT LEADS FROM DRIVER ASSEMBLY CAN BE INSTALLED. SEE FIGURE 4 BELOW.

HINGE BRACKET
(2) #10 SCREWS



FIGURE 4

5. INSTALL DRIVER ASSEMBLY WITH NEW #10-24 SCREWS. INSTALL DRIVER ASSEMBLY BY MATING THE HEAT SINK TO THE TOP OF HOUSING, ALIGN THE FRONT TWO BOSSES WITH THE EXISTING HOUSING BOSSES AND ALIGN THE BACK OF THE HEAT SINK HOLES WITH PREVIOUSLY USED BALLAST ASSEMBLY HINGE BRACKET HOLES. MAKE SURE #10-24 SCREWS ARE FULLY ENGAGED AND HEAT SINK IS IN CONTACT WITH UPPER HOUSING. SEE FIGURE 5 BELOW.

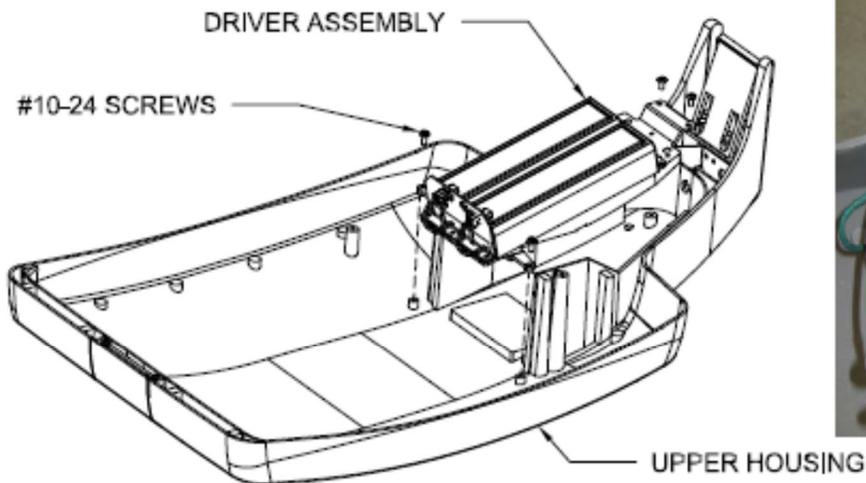


FIGURE 5



IMPORTANT: READ ALL INSTRUCTIONS BEFORE PERFORMING ANY WORK. BE SURE ALL POWER IS OFF PRIOR TO INSTALLING LUMINAIRES.

WARNING: FIXTURE MUST BE GROUNDED IN ACCORDANCE WITH APPROPRIATE CODES. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY.

6. CONNECT EXISTING WIRE INPUT LEADS TO DRIVER INPUT LEADS. IF THERE ARE TWO DRIVERS NEEDED FOR THE GL18, THEN TWO LINE VOLTAGE AND NEUTRAL WIRES WILL NEED TO BE INSTALLED WITH EXISTING INPUT LEADS. SECURE DRIVER TRAY GROUNDING TO HOUSING GROUND.

7. TO INSTALL NEW LED DOOR ASSEMBLY, ENGAGE HINGE AND ROTATE DOOR TOWARDS THE CLOSED POSITION, LOCK HINGE CLAMP, ATTACH SAFETY CABLE TO DOOR AND DRIVER ASSEMBLY AND CONNECT QUICK DISCONNECT WIRES FROM DOOR ASSEMBLY TO DRIVER ASSEMBLY. CLOSE DOOR AND PRESS LATCH DOWN TO LOCK DOOR. SEE FIGURE 6 AND FINAL ASSEMBLY BELOW.

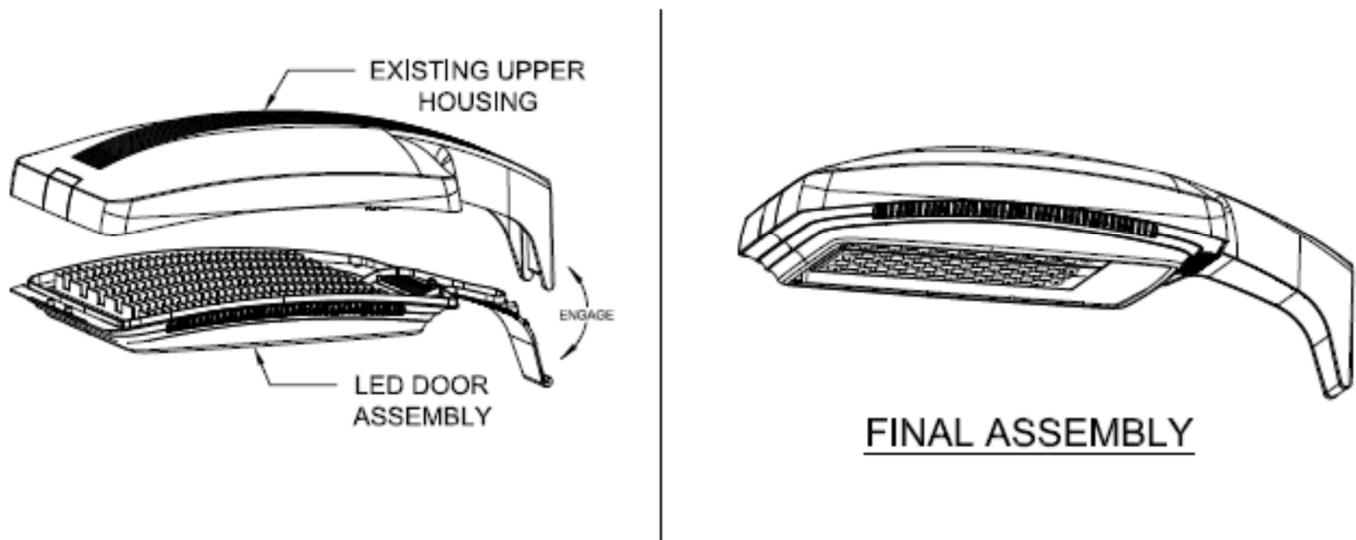


FIGURE 6

8. IF ROTATION OF THE OPTICS IS NECESSARY LOOSEN AND REMOVE 9X # 10 PHILLIPS HEAD SCREWS FROM EACH LIGHT ENGINE. IN ORDER FOR THE LIGHT ENGINE TO ROTATE PROPERLY, THE EXTRA WIRE WILL BE NEEDED TO COMPENSATE THE ORIENTATION. EXTRA WIRE LENGTH HAS BEEN PROVIDED ON THIS EXISTING OUTPUT WIRE HARNESS AND CAN BE ACCESSED BY CUTTING THE WIRE TIE AND PULLING THE EXTRA WIRE LENGTH THROUGH THE WIRE WAY GROMMET. NEXT ROTATE LIGHT ENGINE 90° IN DIRECTION SHOWN IN FIGURE 6, HOLE PATTERN WILL MATCH UP TO RECEIVING BOSSES ON HEAT SINK PLANE, MAKE SURE BOTH LIGHT ENGINES FIT DESIRED LOCATION. BEFORE PROCEEDING SECURE FASTENERS TO LIGHT ENGINE AND TORK 15 FT. LBS. IF EXCESS WIRE IS HANGING, PULL WIRE HARNESS GENTLY THROUGH THE WIRE WAY GROMMET AND BUNDLE WIRE NEATLY TO PREVENT SNAGS, REPLACE EXISTING WIRE TIE WITH EXTRA ZIP TIE THAT HAS BEEN PROVIDED.