



SIMPLY UNIVERSAL



Holophane Mongoose Retrofit Kit Installation Guide 2015

1(877)748-5533
8901 Quality Rd
Bonita Springs, FL, 34135
www.globaltechled.com



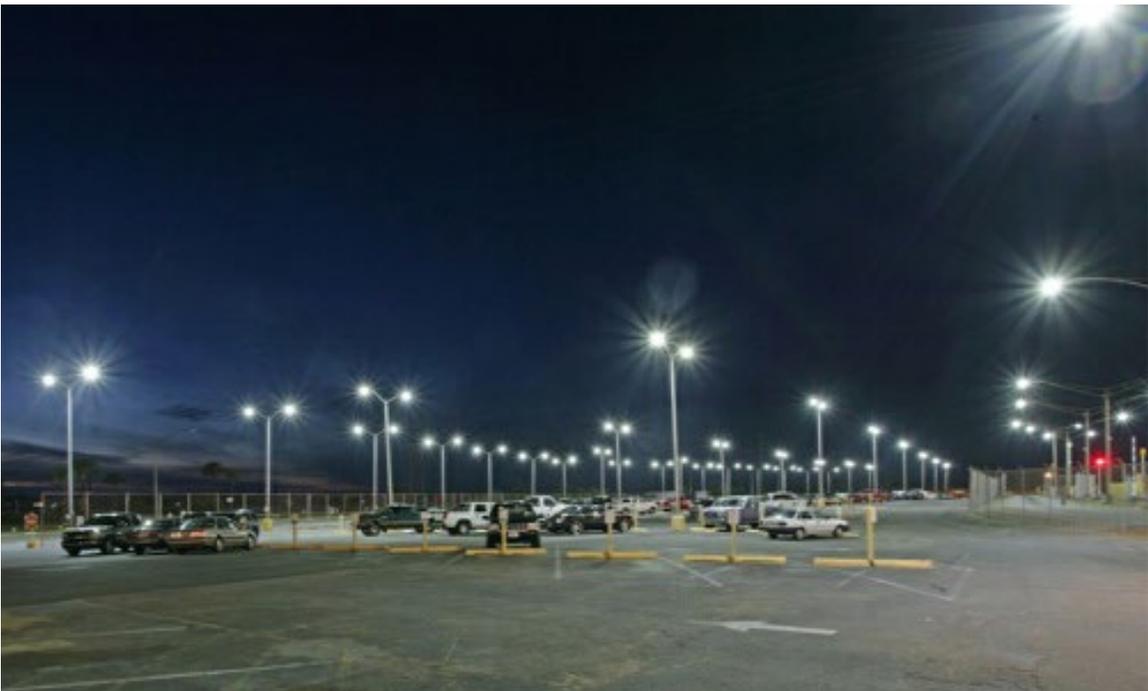
Table of Contents:

Notice and Warnings	4
Cleaning.....	5
Holophane Mongoose Specifications	6
Installation.....	7
Warranty	8





Congratulations on your purchase of the world's most **Advanced Universal LED Retrofit Kit!** Prepare for the highest quality of light, with the Solstice[®] module optimized specifically for this application. Enclosed is general information about our kit, module settings, installation, and maintenance. Please familiarize yourself with your product, and remember that Solstice modules can retrofit nearly any fixture!
Welcome to the Global Tech LED Family!



NOTICE & WARNINGS

This manual contains important information regarding the safety, operation, and maintenance of this product. Before using the product, read and understand all cautions, warnings, instructions, and product labels. Failure to do so could result in injury and/or void the warranty.

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.

⚠ 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 originally intended lamp” shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance during relamping.

⚠ 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.

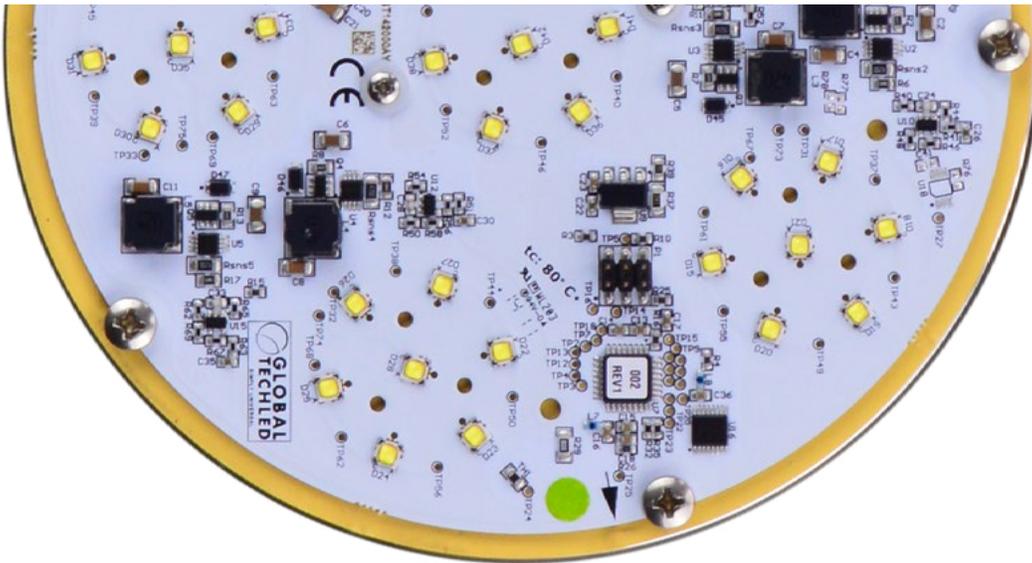
⚠ To avoid electric shock or component damage disconnect power before attempting installation or servicing.

⚠ 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.





LED CLEANING & MAINTENANCE

WARNING – RISK OF ELECTRIC SHOCK. DISCONNECT POWER BEFORE ATTEMPTING TO SERVICE

Global Tech LED Retrofit Kits are typically installed in a fixture enclosed with a gasketed diffuser. These diffusers vary in construction materials, i.e., Borosilicate glass, Polycarbonate or other composite materials. In addition, they may be clear or prismatic and environmental conditions vary widely. Therefore, the schedule for general cleaning and maintenance of these diffusers should be done in accordance with the fixture manufacturer's guidelines. During an HID to LED conversion, you may notice that the diffusers may have become brittle, yellowed, scratched or damaged due to the high heat and years of service. In this case, it is essential to replace the diffuser to ensure maximum light output. During periodic inspection, the LED emitters may be cleaned using the method described below. In situations where the retrofit is not enclosed with a gasketed diffuser and the LEDs are directly exposed: Excessive dust and debris may cause a drastic decrease in optical output. In the event that an LED emitter requires cleaning, first try a gentle swabbing using a lint-free swab or cloth. If needed, a lint-free swab or cloth and isopropyl alcohol (IPA) can be used to gently remove dirt from the lens. Do not use other solvents as they may adversely react with the LED assembly. The LED package contains a silicone overcoat and dome to protect the LED chip and extract the maximum amount of light. As with most silicones used in LED optics, care must be taken to prevent any incompatible chemicals from directly or indirectly reacting with the silicone. If the LED emitters are covered by optics designed to change the light distribution pattern, use the same cleaning procedures as described above. Global Tech LED's Retrofit Kits are installed in a wide variety of applications and environments. There are many issues that come into play when determining Light Loss Factor (LLF) values. Prediction of these can be particularly difficult depending on the application. We are dealing with two classifications of LLF: Recoverable and Non-Recoverable. Recoverable LLF are factors that are attributable to cleaning and maintenance, (Luminaire Dirt Depreciation, LDD). This is covered in document GTL-LCM-2011. Non-Recoverable LLF are factors attributed to changes that occur when the system is in operation, or other degradation that cannot be improved by cleaning and maintenance. For example: the current at which the LED's are driven, junction temperature, ambient temperature, etc. Global Tech LED's InSite temperature measurement test is between 60 – 63.6°C, which is very close to the 55°C published by Philips on their LM80 report. (See document DR04_20110419, page 17). You can use this information to begin with a general assumption of our LLF. Base LLF is supplemented for over 70,000Hrs by Global Tech LED's Lumen Maintenance program, which measures and incrementally increases power to the LED engine in order to keep the light levels as close to its initial output as possible. This is an exceptional innovation unique to Global Tech LED's products.

Holophane Mongoose

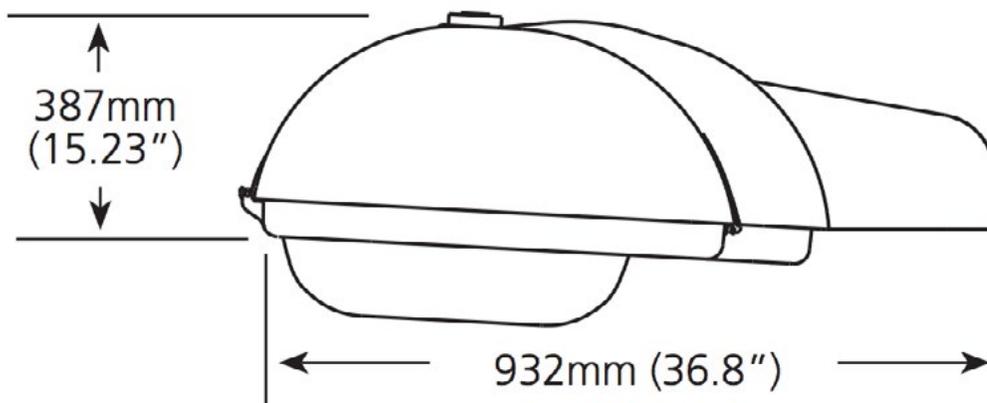
Specifications

Features:

- Die cast aluminum pre-treated, powder coated, and corrosion resistant to meet ASTM-B-117
- Corrosion resistant external hardware
- Tool-less entry

Typical Applications:

- Highways
- Parking Lots
- Municipalities
- Commercial Developments
- Airports
- Residential Streets
- Institutional
- Power Plants
- Correctional Facilities



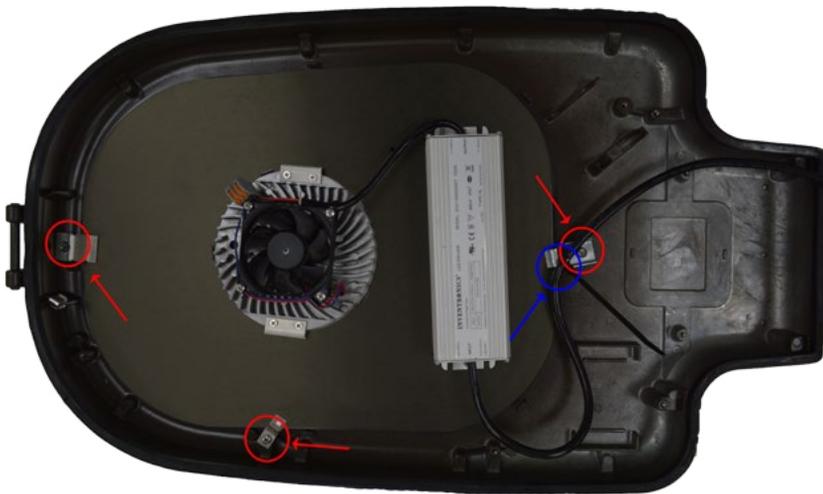
Holophane Mongoose Retrofit Kit Installation



1. Turn off power to fixture



2. Remove internal components & glass



3. Install Retrofit Kit in place of glass, connect wires (A zip tie must be connected from the glass mount to the driver to keep wires out of fan (see blue circle))



4. Turn on power to fixture

STATEMENT OF LIMITED WARRANTY FOR GLOBAL TECH LED, LLC

Subject to the exclusions set forth below, Global Tech LED, LLC. ("Global Tech") warrants its commercial Solstice light emitting diode (LED) engine, including the LED arrays, fan, and integral control devices ("Products(s)"), to be free from defect in materials and workmanship (the "General Warranty") for a period of ten (10) years from the date of shipment from Global Tech's facilities or 50,000 operating hours, whichever is reached first. The LED arrays in the Product(s) will be considered defective in material or workmanship only if a total of 10% or more of the individual light emitting diodes in the Product(s) fail to illuminate. The supplied driver is warranted for 5 years. Global Tech will assist the customer in replacement of this product with the original OEM manufacturer. Global Tech may choose to replace drivers with another OEM if necessary at its discretion.

LABOR COSTS ASSOCIATED WITH WARRANTABLE LED MODULE REPLACEMENT.

Global Tech LED may pay labor costs on a job with a 3% or greater failure rate due to a product defect, up to \$25 (twenty five dollars) per unit at GTL's discretion, associated with replacement of product deemed warrantable upon inspection of returned goods up to one year from date of purchase. Invoices for labor must be sent to Global Tech LED along with RGA (return goods authorization), and product to be inspected for warranty claim. If product defect is considered warrantable upon GTL inspection, Global Tech LED will reimburse labor expenses up to \$25 per LED module. Projects asking for Labor cost reimbursements must first get approval from GTL and be issued an RGA that includes labor costs. GTL will not be responsible for equipment rental or other additional costs that may occur. *This program is subject to change at GTL's discretion.

This Statement of Limited Warranty ("Warranty") applies only when the Product(s) are installed in applications in which ambient temperatures are within the range of specified operating temperatures and are operated within the electrical values shown on the LED driver Label. Global Tech will not be responsible under this Warranty for any failure of the Product(s) that results from external causes such as: acts of nature; physical damage; exposure to adverse or hazardous chemical or other substances; use of reactive cleaning agents and/or harsh chemicals to clean the Product(s); environmental conditions; vandalism; fire; power failure, improper power supply, power surges or dips, and/or excessive switching; induced vibration; animal or insect activity; fault or negligence of purchaser, any end user of the Product(s) and/or any third party not engaged by Global Tech; improper or unauthorized use, installation, handling, storage, alteration, maintenance or service, including failure to abide by any product classifications or certifications, or failure to comply with any applicable standards, codes, recommendations, product specification sheets, or instructions of Global Tech; use of the Product(s) with products, processes or materials supplied by any end user or third party; or any other occurrences beyond Global Tech's reasonable control. Adequate records of operating history, maintenance, and/or testing must be kept by the end user and provided to Global Tech upon request to substantiate that the Product(s) have failed to comply with the terms of this Warranty. Neither polycarbonate non acrylic material used in the Products is warranted against yellowing, as yellowing may naturally occur over time due to normal aging. The Product(s) are not warranted against costs that may be incurred in connection with changes or modifications to the Product(s) required to accommodate site conditions and/or faulty building construction or design. In addition, the Product(s) are not warranted against cost resulting from installation of a third party components, failures of third party supplied components, or failures of Global Tech supplied Product(s) caused by a third party supplied component. If Global Tech determines, at its sole discretion, the Product(s) fail to comply with the terms of this Warranty, Global Tech, at its option, will repair or replace the Product(s) with the same or a functionally equivalent Product(s) or component part(s). This Warranty excludes labor and equipment required to remove and/or reinstall original or replacement parts. This Warranty extends only to the Product(s) as delivered to, and is for the sole and exclusive benefit of, the original end user of the Product(s) at the original location. This Warranty may not be transferred or assigned by the original end user. The repair or replacement of any Product(s) or component part within the Product(s) is the sole and exclusive remedy for failure of the Product(s) to comply with the terms of this Warranty and does not extend the Warranty period. Warranty claims regarding the Product(s) must be submitted in writing within (30) days of discovery of the defect or failure to an authorized Global Tech postsales or customer service representative. Product(s) or component part(s) may be required to be returned for inspection and verification of nonconformance by Global Tech, but no Product(s) or component part(s) will be accepted for inspection, verification or return unless accompanied by a "return authorization number" which can be obtained only from an authorized Global Tech postsales or customer service representative. Global Tech is not responsible for any costs and expenses incurred in connection with shipment of Product(s) to Global Tech, but Global Tech shall bear all cost and expense incurred in connection with shipment of replacement Product(s) to the customer.

THE FOREGOING WARRANTY TERMS ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, AND GLOBAL TECH EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, RELATING DIRECTLY OR INDIRECTLY TO THE PRODUCT(S), WHETHER ORAL, WRITTEN, OR ARISING BY COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO AGENT, DISTRIBUTOR OR OTHER SUPPLIER OF GLOBAL TECH PRODUCTS HAS THE AUTHORITY TO MODIFY OR AMEND THIS WARRANTY WITHOUT EXPRESS WRITTEN AUTHORIZATION FROM GLOBAL TECH.

The total liability of Global Tech on any and all claims of any kind, whether in contract, warranty, tort (including negligence), strict liability or otherwise, arising out of or in connection with, or resulting from, Global Tech's performance or breach of this Warranty, or from Global Tech's sale, delivery, resale, repair, or replacement of any Product(s) or the furnishing of any services, shall in no event exceed the purchase price allocable to the Product(s) that give rise to the claim, and any and all such liability shall terminate upon the expiration of the warranty period specified above.

IN NO EVENT SHALL GLOBAL TECH BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY OR PUNITIVE DAMAGES, EVEN IF INFORMED OF THE POSSIBILITY OF SUCH DAMAGES, WHETHER AS THE RESULT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, OR ANY OTHER THEORY, INCLUDING WITHOUT LIMITATION LABOR OR EQUIPMENT REQUIRED TO REMOVE AND/OR REINSTALL ORIGINAL OR REPLACEMENT PARTS, LOSS OF TIME, PROFITS OR REVENUES, LACK OR LOSS OF PRODUCTIVITY, INTEREST CHARGES OR COST OF CAPITAL, COST OF SUBSTITUTE EQUIPMENT, SYSTEMS, SERVICES OR DOWNTIME COSTS, DAMAGE TO OR LOSS OF USE OF PROPERTY OR EQUIPMENT OR ANY INCONVENIENCE ARISING OUT OF ANY BREACH OF THE FOREGOING WARRANTY OR OBLIGATIONS UNDER SUCH WARRANTY.

Global Tech reserves the right to modify or discontinue this Warranty without notice provided that any such modification or discontinuance will only be effective with respect to any Product(s) purchased after such modification or discontinuance. For any questions regarding this warranty please contact Global Tech LED, LLC., 8901 Quality RD, Bonita Springs FL 34135. 877.748.5533.