

StarGazer Installation Instructions For Ground Set, Revolving Internal Halyard Flagpoles

BEFORE WIRING YOUR STARGAZER FLAGPOLE DOWNLIGHT

For new construction flagpoles (not existing), drill a 0.84(+) hole in Ground Sleeve Base for 1/2" SCH. 40 PVC Electrical Conduit (Provided by installer)

VERY IMPORTANT: TURN OFF ELECTRICITY AT THE CIRCUIT BREAKER BEFORE INSTALLING FIXTURE(S). DO NOT ATTEMPT TO REWIRE OR RECONNECT WIRES WITHIN THE LIGHT FIXTURE. DO NOT WIRE STARGAZER DIRECTLY TO LINE VOLTAGE. THE LINE VOLTAGE (110V, 208V, 277V) AND THE LOW VOLTAGE CABLE PROVIDED MUST BE CONNECTED INSIDE THE POWER SUPPLY LOCATED INSIDE THE ENCLOSURE BOX PROVIDED



1) Feed the low voltage cable down the inside of

the flagpole through the top. Ensure low voltage cable is fed **BEHIND** the cam cleat or winch. For M-Winch applications, low voltage cable can be fed on either side, see image below). Ensure low voltage cable is **NOT** wrapped around flagpole halyard for ALL internal halyard applications.

2) Thread the spindle of the StarGazer Truck

Assembly into the top of the flagpole. *Do not use epoxy on the spindle of the truck. These threads are 1 1/4" NPT (National Pipe Thread). Extreme care should be taken to avoid cross threading the components, as Aluminum threads can be easily damaged. Snug the spindle using an appropriately sized wrench. The threads are tapered and are manufactured in such a manner that over half of the spindle threads should go into the shaft before it is fully seated. If damage occurs during this process, contact your dealer.*

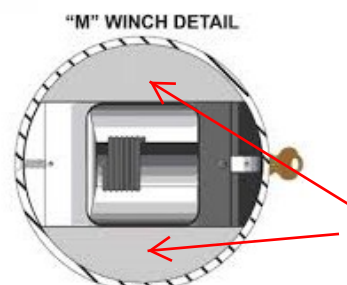
3) For existing, not newly installed flagpoles, drill a

3/8" hole horizontally into the flagpole 2" above ground level on the opposite side of the pulley. Next, drill in a downward angle so that the circular hole is tapped out to an oval shape. Finally, file down the tapped, oval hole to eliminate rough edges and apply silicone glue and/or a rubber grommet to ensure no damage will be made to the low voltage cable when pulling the low voltage cable. Please Note: THIS DOES NOT, IN ANY WAY, DAMAGE THE INTEGRITY OF THE FLAGPOLE, NOR DOES IT VOID ANY MANUFACTURER WARRANTIES.

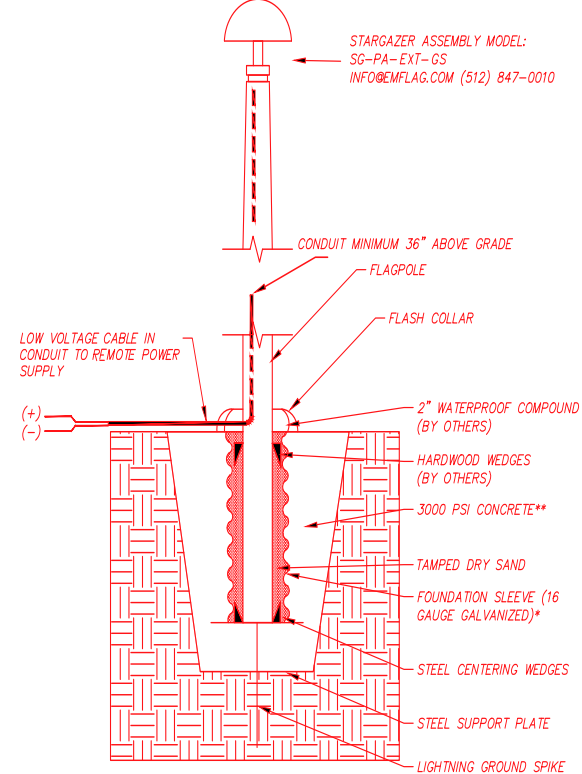
4) For new construction flagpoles, feed the low voltage cable down through the pre-drilled, 0.84(+) hole in Ground Sleeve Base and into the 1/2" Schedule 40 PVC Electrical Conduit (Provided by installer).

5) Pull the low voltage cable out from the sweeping elbow to the remote power supply location

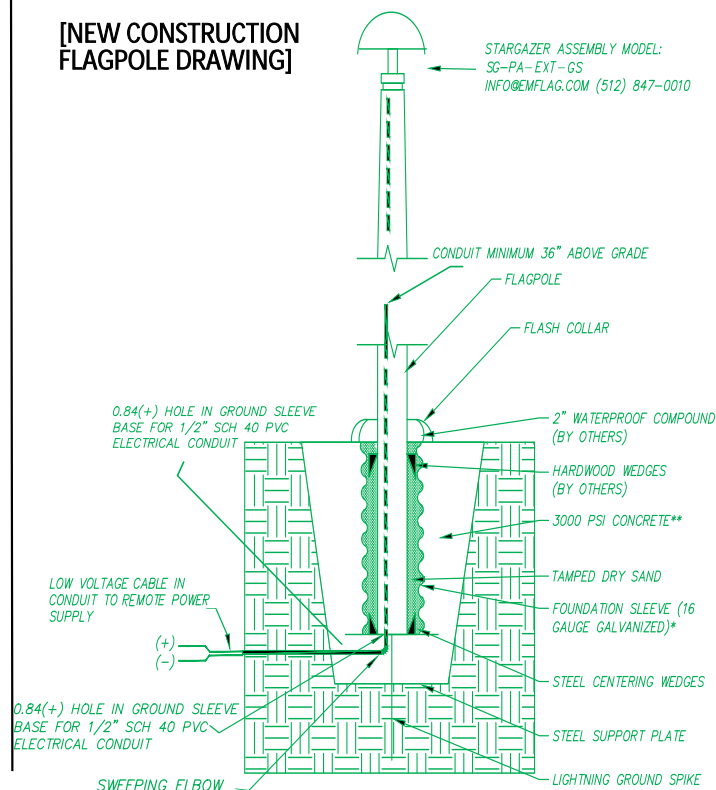
6) Wiring Instructions continued on Page 3.



[EXISTING FLAGPOLE DRAWING]



[NEW CONSTRUCTION FLAGPOLE DRAWING]



Eagle Mountain Flag & Flagpole

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StarGazer Installation Instructions For Shoe Base, Revolving Internal Halyard Flagpoles

BEFORE WIRING YOUR STARGAZER FLAGPOLE DOWNLIGHT

For new construction flagpoles (not existing), drill a 0.84(+) hole in Ground Sleeve Base for 1/2" SCH. 40 PVC Electrical Conduit (Provided by installer)

VERY IMPORTANT: TURN OFF ELECTRICITY AT THE CIRCUIT BREAKER BEFORE INSTALLING FIXTURE(S). DO NOT ATTEMPT TO REWIRE OR RECONNECT WIRES WITHIN THE LIGHT FIXTURE. DO NOT WIRE STARGAZER DIRECTLY TO LINE VOLTAGE. THE LINE VOLTAGE (110V, 208V, 277V) AND THE LOW VOLTAGE CABLE PROVIDED MUST BE CONNECTED INSIDE THE POWER SUPPLY LOCATED INSIDE THE ENCLOSURE BOX PROVIDED



1) Feed the low voltage cable down the inside of the flagpole through the top. Ensure low voltage cable is fed BEHIND the cam cleat or winch. For M-Winch applications, low voltage cable can be fed on either side, see image below). Ensure low voltage cable is NOT wrapped around flagpole halyard for ALL internal halyard applications.

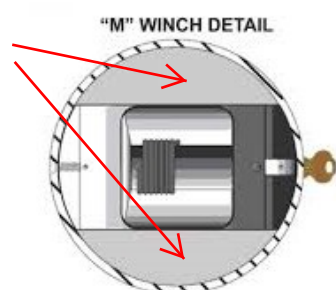
2) Thread the spindle of the StarGazer Truck Assembly into the top of the flagpole. Do not use epoxy on the spindle of the truck. These threads are 1 1/4" NPT (National Pipe Thread). Extreme care should be taken to avoid cross threading the components, as Aluminum threads can be easily damaged. Snug the spindle using an appropriately sized wrench. **Install stop pin(s) (see Page 4)** The threads are tapered and are manufactured in such a manner that over half of the spindle threads go into the shaft before it is fully seated. If damage occurs during this process, contact your dealer.

3) For existing, not newly installed flagpoles, pull the low voltage cable out from inside the flagpole from the 3/4" clearance between the Shoe Base and ground level to the remote power supply location.

4) For new construction flagpoles, pull the low voltage cable down into the 1/2" Schedule 40 PVC Electrical Conduit (Provided by installer) to the sweeping elbow.

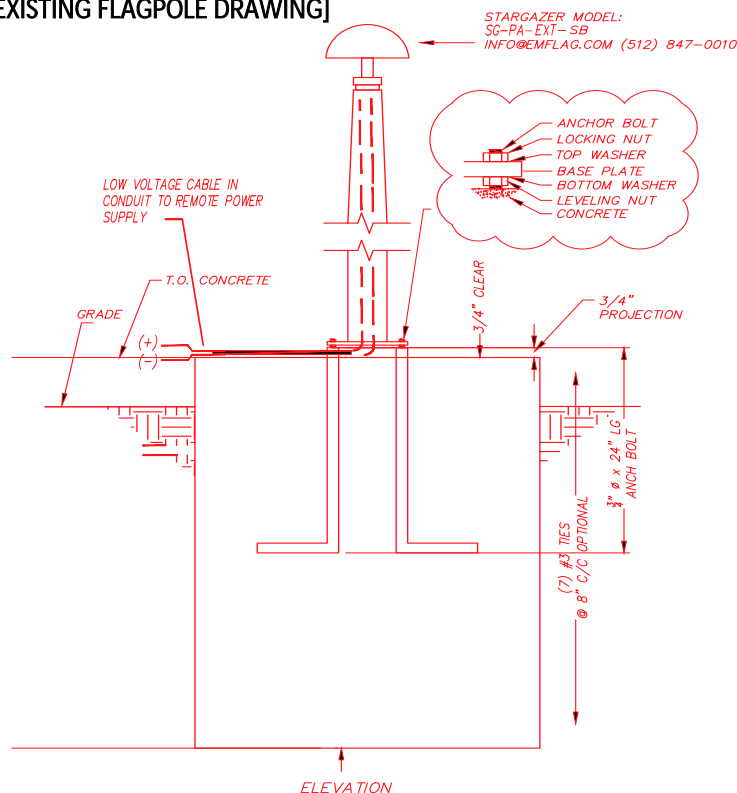
5) Pull the low voltage cable out from the sweeping elbow to the remote power supply location.

Path for
LV Cable

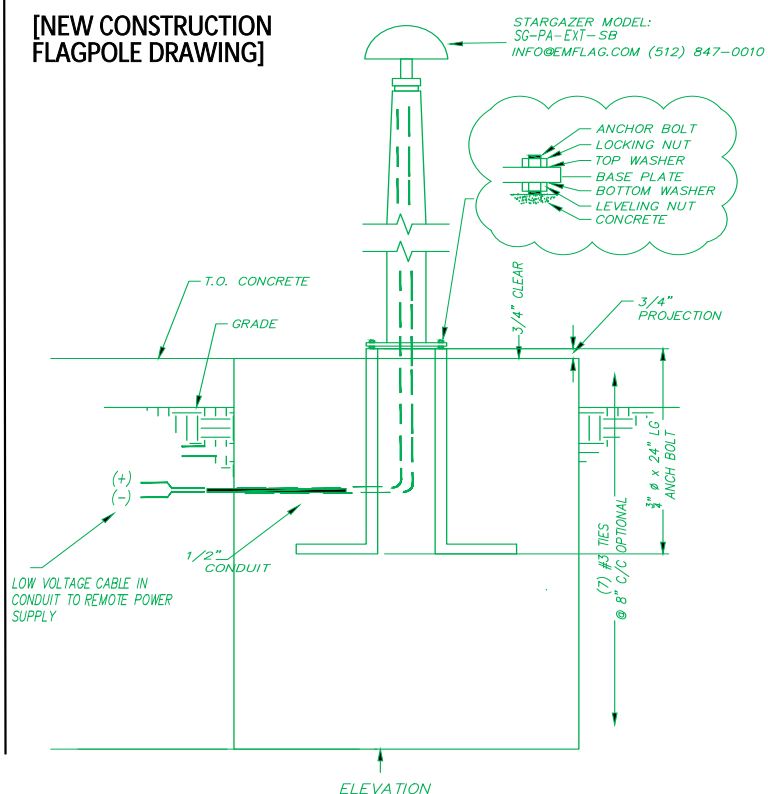


6) Wiring
Instructions
continued on
Page 3.

[EXISTING FLAGPOLE DRAWING]



[NEW CONSTRUCTION FLAGPOLE DRAWING]



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StarGazer Wiring Instructions

WARNING: Always install fixture(s) according to National Electrical Code (NEC) and local codes. Failure to do so will void the warranty and could cause damage to the fixture(s) or may result in personal injury.

NOTE: THIS FIXTURE CONTAINS ELECTRONIC COMPONENTS THAT CAN BE SENSITIVE TO VOLTAGE SURGES AND LIGHTNING. EAGLE MOUNTAIN FLAG & FLAGPOLE RECOMMENDS THAT ALL SYSTEMS BE PROPERLY GROUNDED AGAINST TRANSIENT ELECTRICAL SURGES. EAGLE MOUNTAIN FLAG & FLAGPOLE PROVIDES GROUNDING SYSTEMS FROM THE LIGHT SOURCE TO THE DRIVER. ALL GROUNDING LUGS MUST BE PROPERLY ATTACHED.

NOTE: FIXTURE MUST BE INSTALLED BY A LICENSED ELECTRICIAN. THESE INSTRUCTIONS DO NOT COVER ALL DETAILS OR VARIATIONS IN EQUIPMENT, NOR DO THEY PROVIDE FOR EVERY UNCERTAINTY RELATED TO INSTALLATION, OPERATIONS, MAINTENANCE OR MOUNTING CONTINGENCY. SHOULD SPECIFIC PROBLEMS OCCUR THAT ARE NOT COVERED SUFFICIENTLY FOR THE PURCHASER'S PURPOSE, CONTACT EAGLE MOUNTAIN FOR ADDITIONAL PRODUCT OR APPLICATION INFORMATION.

CAUTION: DO NOT RUN LINE VOLTAGE (110V/208V/277V) INSIDE THE FLAGPOLE. THE LOW VOLTAGE CABLE ATTACHED TO THE STARGAZER DOWNLIGHT IS SAFE INSIDE THE FLAGPOLE. LINE VOLTAGE (110V/208V/277V) IS AN ELECTRICAL HAZARD IF IT IS INSIDE THE FLAGPOLE. ALL ELECTRICAL CONNECTIONS MUST BE MADE INSIDE THE POWER SUPPLY*. DO NOT WIRE STARGAZER DOWNLIGHT DIRECTLY TO LINE VOLTAGE. THE LINE VOLTAGE (110V/208V/277V) AND THE LOW VOLTAGE WIRE PROVIDED MUST BE CONNECTED INSIDE THE POWER SUPPLY LOCATED INSIDE THE EAGLE MOUNTAIN FLAG ENCLOSURE BOX PROVIDED. DO NOT MOUNT ENCLOSURE BOX TO FLAGPOLE.

**IMPROPER INSTALLATION AND/OR UTILIZATION WILL VOID
MANUFACTURER'S WARRANTY.**

- 1) The power supply comes in an Eagle Mountain Flag enclosure box. The enclosure box must be mounted OUTSIDE of the flagpole and can be located up to 150' away from the StarGazer Downlight. DO NOT PLACE ENCLOSURE BOX INSIDE OF YOUR FLAGPOLE. DO NOT BURY THE ENCLOSURE BOX. (Excluding the In-Ground/Burial Power Supply; SG-IG-DRIVER)
- 2) Identify and attach secondary side wires from LED Driver to low voltage cable using wire nuts (not provided). Make sure to observe polarity (**RED to RED (+)**, **BLACK to BLACK (-)**). It is strongly recommended to use a color coded 18-gauge 2 strand cable that is provided by Eagle Mountain Flag & Flagpole when wiring the StarGazer Downlight inside the power supply.
- 3) Mount the enclosure box remotely outside of the flagpole taking special care not to pinch wires.
- 4) Supply power to the power supply and check to see that it is operating properly.



StarGazer – 359 Degree Revolving vs. Stationary Installation Option

Each internal revolving StarGazer is shipped with a single stop pin allowing for 359 degrees revolving capability. See Figure 1 below.



(Figure 1)

In the event the installer or end user would prefer a stationary installation, simply insert the spare stop pin in the remaining open hole of the truck stem and lightly tap with a hammer to secure in place. See Figure 2 below.



(Figure 2)