

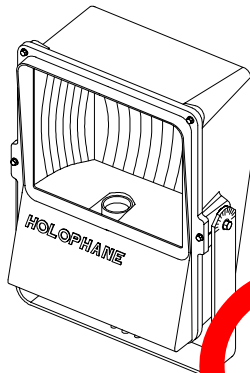
AFTER INSTALLATION DELIVER THIS MANUAL TO OWNER

IMPORTANT SAFETY INSTRUCTIONS

WARNING-READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL OR MAINTAIN THIS FIXTURE. WORK MUST BE DONE BY QUALIFIED PERSONNEL.

WARNING-BE CERTAIN THAT ALL ELECTRICAL POWER IS DISCONNECTED FROM THE FIXTURE BEFORE INSTALLING OR MAINTAINING THE FIXTURE.

WARNING-FOLLOW LAMP MANUFACTURER'S OPERATING AND MAINTENANCE INSTRUCTIONS.



GR421

The Predator floodlights have been designed and tested in accordance with UL1572. These floodlights are suitable for use in wet locations.

- The floodlight mounting size is referred to in Figure 1.
- Major components of the floodlight are identified in Figure 1.
- The Predator floodlights have been designed to allow permanent installation in the yoke or knuckle fitter or box mount and housing while still providing easy maintenance and repair.
- The lamp, all electrical components, and the reflector can be accessed by opening the door.
- Using a socket wrench, the door can be opened by loosening captive door screws.
- All electrical components and the lens are contained on the door and the door can be removed easily and without tools (once the captive door screws are loosened).
- Doors can be replaced as units and repaired in a shop under protected conditions.
- The reflector located within the housing can be replaced as needed. Different types of reflectors will provide different light distributions.

Installation and Maintenance Manual

1.2 Alternate Information Sources If additional questions arise relative to the Predator floodlight that this document or your supplier cannot answer please refer to:

Holophane Field Service Department
P.O. Box 30
Newark, NJ 07102-0030
866-741-1577

2. INSTALLATION

2.1 Tools and Materials Required The following tools and materials are required during installation of the Predator floodlight:

Table 1. Installation Tools and Materials

DESCRIPTION	USE
3/8" hex head socket wrench	Captive door screws
3/8" hex head wrench	Yoke bolt
1/2" hex head socket wrench	Box mount
9/16" hex head socket wrench	Knuckle fitter bolt and set screw
Wire cutters	Cord grip (if applicable)
10 lb. torque wrench (inch/foot lbs.)	Captive door screws, set screws and bolts
Wire nuts	

2.2 Yoke Mount Installation.

2.2.1 Bolt the yoke to the mounting structure using either two 3/8" bolts or one 1/2" grade 5 bolt. Tighten bolts securely (30-35 ft. lbs. for 3/8" bolts or 50-60 ft. lbs. for 1/2" bolt). These are not provided.

2.2.2 Loosen the captive door screws attaching the door to the housing. Open the door. See Figure 1.

2.2.3 Detach the power disconnect plug from the disconnect receptacle in the housing.

2.2.4 If needed, remove the door by removing the cotter pin from the hinge pin and sliding the door hinge pins out of the housing.

NOTE POWER CORD FITTING: - The threaded hole in the back of the housing is tapped for 1/2-14 NPT.

2.2.5 Use UL approved watertight power cord fittings (not provided) on all installations where fittings are required.

2.2.6 Remove clear protective cover and install watertight fitting. Tighten securely.

2.2.7 Make all wiring connections in accordance with approved wiring methods. Ensure that all supply wires and supply wire connections are retained between the folds of the wire shield in the housing.

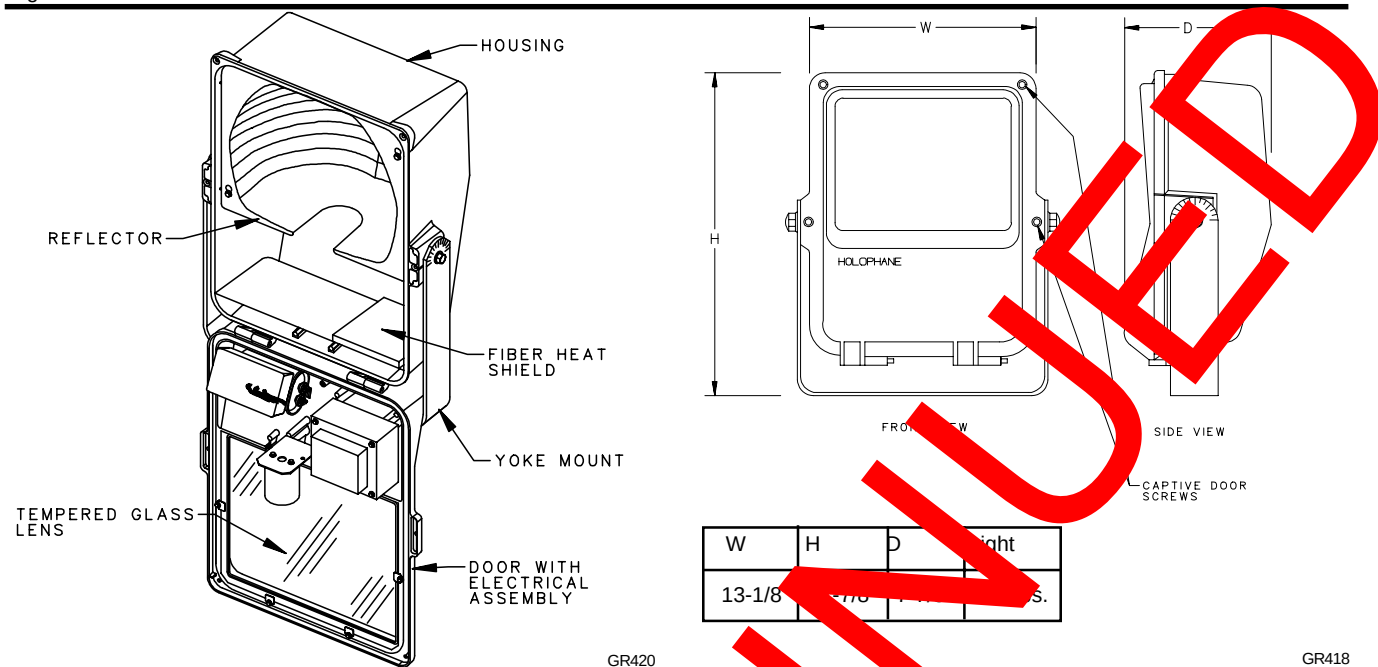
2.2.8 If the door was removed as in 2.2.4 reinstall the door by sliding the door hinge pins into the housing. Insert the cotter pin through the hinge pin.

2.2.9 Insert the door disconnect plug into the disconnect receptacle in the housing.

2.2.10 Securely install the proper lamp.

2.2.11 Close the door. Thread the captive door screws into the housing. Tighten the captive door screws to 55 in. lbs. torque. This is required for watertight door seal.

Figure 1



2.2.12 Aim the floodlight restricting mounting to $\pm 90^\circ$ from vertical lamp base down.

2.2.13 Tighten the 1/2" diameter yoke bolts securely (approx. 50 ft.lb. recommended).

2.2.14 Energize the floodlight. Check its operation and for proper area illumination. Adjust the aiming point as needed but within limits of the mounting restrictions.

2.3 Knuckle Fitter Mount Installation.

2.3.1 Slip the slip fitter of the knuckle fitter over the pole-top, tenon or pipe bracket. Lightly tighten all four set screws against the pole-top, tenon or pipe bracket.

WARNING

DO NOT MOUNT THE KNUCKLE FITTER TO TENON OR BRACKET THAT IS MORE THAN 30 DEGREES FROM VERTICAL. MOUNTING AT AN ANGLE GREATER THAN 30 DEGREES MAY RESULT IN DISENGAGEMENT OF THE FITTER AND RESULT IN SERIOUS INJURY OR DEATH.

2.3.2 Loosen the captive door screws attaching the door to the housing. Open the door.

2.3.3 Detach the power disconnect plug from the disconnect receptacle in the housing.

2.3.4 If needed, remove the door by removing the cotter pin from the hinge pin and sliding the door hinge pins out of the housing.

2.3.5 Make all wiring connections in accordance with approved wiring methods. Ensure that all supply wires and supply wire ground wires are retained between the folds of the wire shield in the housing.

2.3.6 If the door was removed as in 2.3.4 reinstall the door by sliding the door hinge pins into the housing. Insert the cotter pin through the hinge pin.

2.3.7 Insert the door disconnect plug into the disconnect receptacle in the housing.

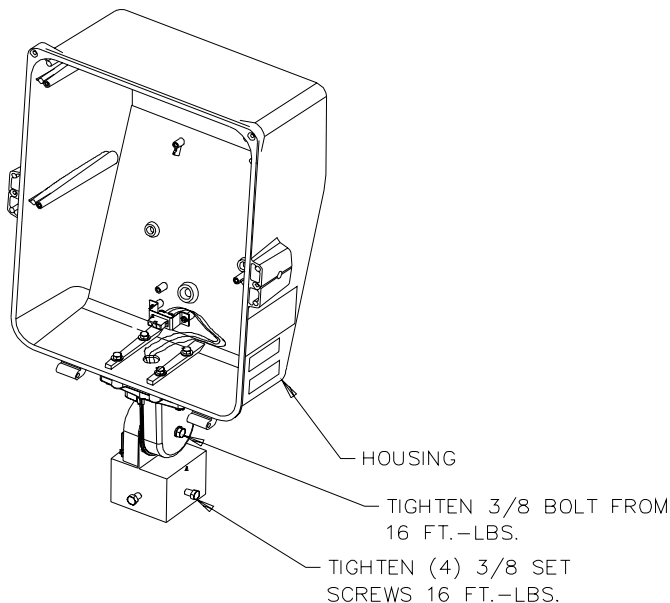
2.3.8 Securely install the proper lamp.

2.3.9 Close the door. Thread the captive door screws into the housing. Tighten the captive door screws to 55 in. lbs. torque. This is required for water tight door seal.

2.3.10 Aim the floodlight restricting mounting to $\pm 90^\circ$ from vertical lamp base down.

2.3.11 Tighten the 3/8" diameter knuckle fitter bolt securely (approx. 16 ft.lb. recommended). Tighten (4) 3/8 set screws to 16 ft. lbs. See Figure 2.

Figure 2



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2.3.12 Energize the floodlight. Check its operation and for proper area illumination. Adjust the aiming point as needed but within the limits of the mounting restrictions.

2.4 Box Mount Installation.

2.4.1 Mount the thru-way box to the mounting structure with 3/8" fasteners (not provided).

2.4.2 Loosen the captive door screws attaching the door to the housing. Open the door.

2.4.3 Detach the power disconnect plug from the disconnect receptacle in the housing.

2.4.4 If needed, remove the door by removing the cotter pin from the hinge pin and sliding the door hinge pins out of the housing.

2.4.5 Use UL approved watertight cord grip fittings (not provided) on all installation.

2.4.6 Remove clear protective cover and install watertight cord grip fitting. Tighten securely.

2.4.7 Mount unit to cast box with the four 5/16 hex bolts with lockwashers supplied. Be sure install gasket between box and unit supplied. Tighten bolts securely (approximately 15 ft. lbs.) See Figure 3.

2.4.8 Make all wiring connections in accordance with approved wiring methods. Ensure that all supply wires and supply wire connections are retained between the folds of the fiber heat shield in the housing.

2.4.9 If the door was removed as in 2.4.4, reinstall the door by sliding the door hinge pins into the housing. Insert the cotter pin through the hinge pin.

2.4.10 Insert the door disconnect plug into the disconnect receptacle in the housing.

2.4.11 Securely install the proper lamp type.

2.4.12 Close the door. Thread the captive door screws into the housing. Tighten captive door screws to 55 in. lbs. torque. This is required for watertight door seal.

2.4.13 Refer to the identification label on the unit for mounting restrictions.

2.4.14 Energize the floodlight. Check its operation and area illumination.

3. MAINTENANCE

3.1 Relamping and cleaning.

3.1.1 Deenergize the floodlight.

3.1.2 Wipe off the exterior of floodlight to remove dirt or debris that could enter when the door is opened.

3.1.3 Loosen the captive door screws attaching the door to the housing. Open the door.

3.1.4 Remove the lamp.

3.1.5 Securely install the proper new lamp.

3.1.6 Wash both sides of the lens.

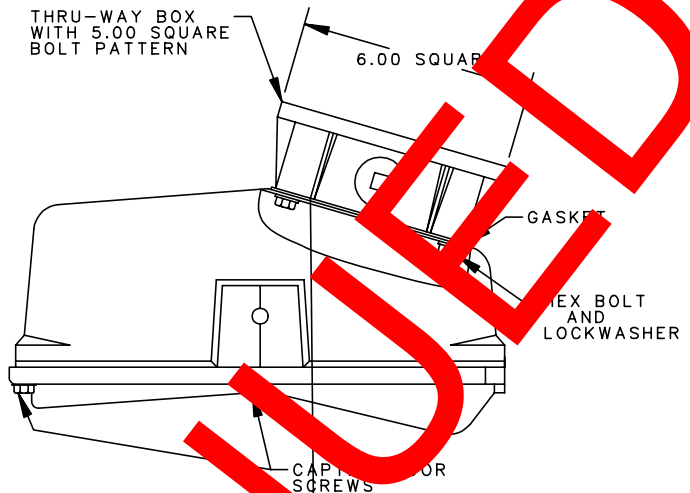
CAUTION

KEEP ELECTRICAL COMPONENTS DRY. DO NOT USE ABRASIVE CLEANERS ON THE GLASS OR REFLECTOR. LOSS OF OPTICAL PERFORMANCE AND SUBSEQUENT GLASS BREAKAGE COULD RESULT.

3.1.7 Check the condition of the door gasket and seal area on the housing. Ensure that no damage exists that could affect seal integrity.

3.1.8 Check the interior of the housing and door for evidence of damage or potentially hazardous conditions.

Figure 3



WARNING

FOR REPLACEMENT OF ANY DAMAGED COMPONENTS, ESPECIALLY THOSE THAT MAY PREVENT THE PROPER SEALING OF THE FIXTURE (CONTACT HEMPHRE FIELD SERVICE DEPARTMENT). FAILURE TO DO SO MAY RESULT IN SIGNIFICANT PROPERTY DAMAGE.

3.1.9 Wipe the gasket and seal area clean with a clean, dry rag and ensure that no dirt or debris will prevent an adequate seal during closing.

3.1.10 Close the door. Tighten the captive door screws to 55 in. lbs. torque. This is required for watertight door seal.

3.2 Door Replacement/Repair.

3.2.1 De-energize the floodlight.

3.2.2 Wipe off the exterior of floodlight to remove dirt or debris that could enter when the door is opened.

3.2.3 Loosen the captive door screws attaching the door to the housing. Open the door.

3.2.4 Detach the power disconnect.

3.2.5 Remove the cotter pin from the hinge pin.

3.2.6 Slide the door hinge pins from the housing.

3.3 Electrical Component Replacement. Electrical components mounted on the door can be replaced as follows:

3.3.1 Tag electrical leads for use when installing the new components.

3.3.2 Break electrical connections.

3.3.3 Remove the attaching hardware and retain for reuse.

3.3.4 Remove the electrical component.

3.3.5 If needed during installation, remove any electrical or heat insulating components from the removed electrical component. Install them onto the new component.

3.3.6 Place the new component into position.

3.3.7 Install the attaching hardware. Tighten securely.

3.3.8 Make electrical connections in accordance with wire tags and approved wiring practices.

3.4 Door Installation.

- 3.4.1** Slide the door hinge pins into the housing.
- 3.4.2** Insert the cotter pin through the hinge pin.
- 3.4.3** Insert the door disconnect plug into the disconnect receptacle in the housing.
- 3.4.4** Check the condition of the door gasket and seal area on the housing. Ensure that no damage exists that could affect seal integrity.
- 3.4.5** Check the interior of the housing and door for evidence of damage or potentially hazardous conditions.

WARNING

FOR REPLACEMENT OF ANY DAMAGED COMPONENTS, ESPECIALLY THOSE THAT MAY PREVENT THE PROPER SEALING OF THE FIXTURE (CONTACT HOLOPHANE FIELD SERVICE DEPARTMENT). FAILURE TO DO SO MAY RESULT IN SIGNIFICANT PROPERTY DAMAGE.

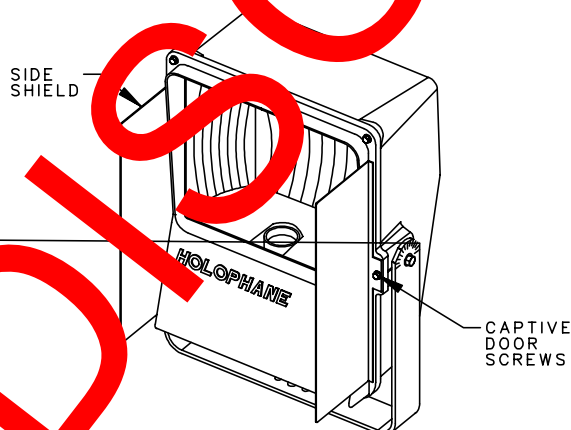
- 3.4.6** Wipe the gasket and seal area clean with a clean, dry rag and ensure that no dirt or debris will prevent an adequate seal during closing.
- 3.4.7** Close the door. Tighten the captive door screws to 55 in. lbs. torque. This is required for watertight door seal.
- 3.4.8** Energize the floodlight. Check its operation and for proper area illumination.

4. OPTIONS OR ACCESSORIES.

The following options or accessories may be present on your installation.

- 4.1 Shield Installation and Maintenance.** When installed, these limit the horizontal spread of emitted light.
 - 4.1.1** Remove the captive door screws from the side of the door. See Figure 4.
 - 4.1.2** Align the mounting hole in the shields with holes in the door. Place the shield on the side of the door.
 - 4.1.3** Insert the screw through the shield mounting holes and the door and thread into the housing. Tighten captive door screws to 55 in. lbs. torque. This is required for watertight seal.
 - 4.1.4** Clean accumulated rust and dirt from door before relamping.

Figure 4



GR422

- 4.2 Visor Installation and Maintenance.** When installed, the visor limits the vertical spread of emitted light.

4.2.1 Attach the clips to the visor, one in the center and one on each corner at approximately the location of the hinges. The visor goes into the narrow side of the clip. See Figure 5.

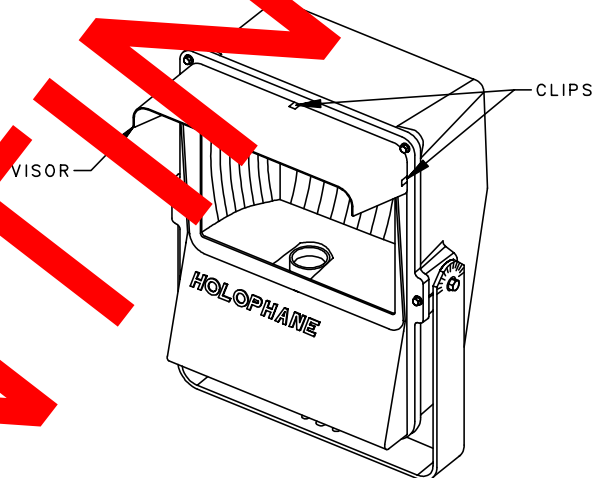
4.2.2 Fasten the visor with the clips to the door assembly. A small screwdriver can be used to spread the leg of clips to start them over the cast rib on the door.

NOTE

Three 3/16" diameter holes in visor can be used as a template if the installer chooses to drill holes through the casting and fasten the visor to the door with screws (not included). Screws are recommended in high wind and rough service areas.

4.2.3 Clean accumulated rust and dirt from visor when relamping.

Figure 5



GR423

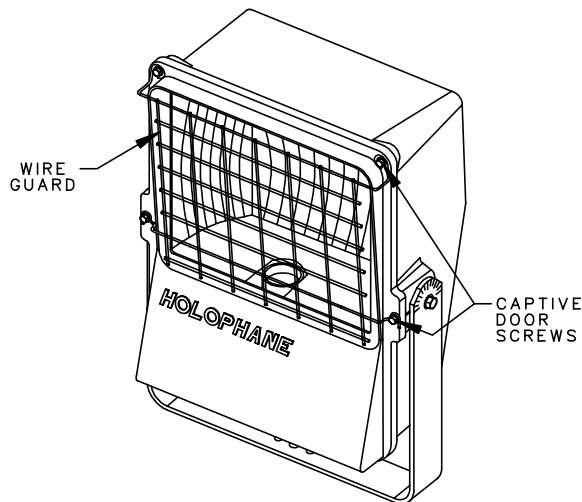
4.3 Wire Guard Installation and Maintenance. When installed, the wire guard helps protect the tempered glass lens from damage.

4.3.1 Loosen the captive door screws. See Figure 6.

4.3.2 Slide the mounting loops in the wire guard over all four screws.

4.3.3 Tighten captive door screws to 55 in. lbs. torque. This is required for water tight door seal.

Figure 6



5. Limited Warranty and Limitation of Liability

The Holophane limited warranty and limitation of liability is published in the "Terms and Conditions" section of the current Holophane buyer's guide, and is available from your local Holophane sales representative.



Acuity Lighting Group, Inc.
214 Oakwood Ave., Newark, OH 43055

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