

ALTMAN

THE QUALITY OF LIGHT

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INSTALLATION PROCEDURE FOR SATELLITE-1 LAMP

SAVE THESE INSTRUCTIONS!

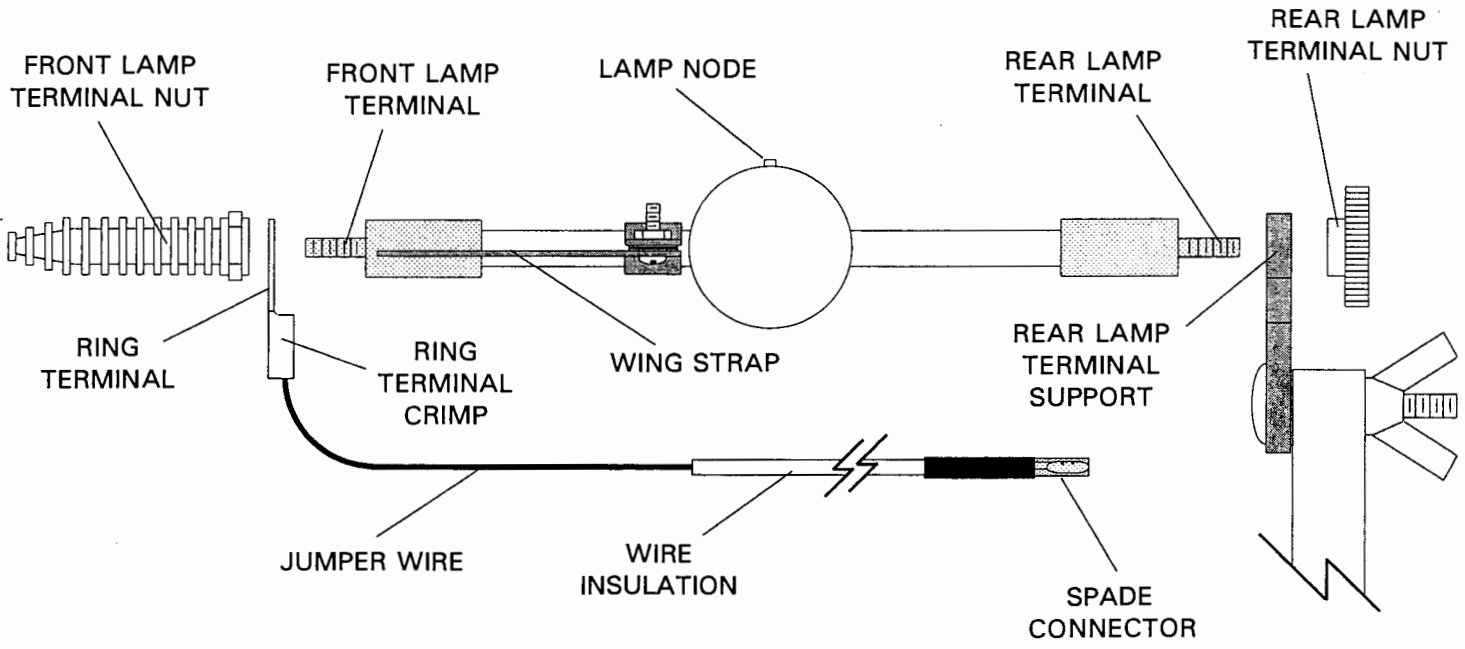
- CAUTION:** Read and understand these entire instructions before proceeding.
- CAUTION:** Use only OSRAM #54064 (HMI 575 W/GS type) lamps, or equivalent.
- CAUTION:** Always wear safety goggles during lamp installation, relamping, or while servicing for any reason.
- CAUTION:** Disconnect fixture from electrical supply before lamp installation, relamping, or servicing for any reason.
- CAUTION:** Risk of electrical shock or fire; this fixture must be grounded when operating.
- CAUTION:** Do not expose follow spot to rain, or use in damp or wet locations. Always store indoors.
- CAUTION:** Do not operate follow spot with a missing or damaged lamp or lens.
- CAUTION:** This follow spot is a source of intense heat and is not intended for residential use. If fixture is hot, allow it to cool before relamping. Do not allow it to come in contact with flammable materials.
- CAUTION:** Source of ultraviolet (UV) radiation. Retina damage may result from direct viewing of energized lamp.
- CAUTION:** Do not operate with damaged cord, wires or electrical parts. Always inspect lamp leads before using.
- CAUTION:** Do not operate follow spot on a dimmable circuit.
- CAUTION:** Do not touch glass portion of lamp with your hands. Agents such as sodium, grease, or oil from your fingers may be transferred to the glass wall. These contaminants can cause lamp to rupture or can greatly reduce the performance and life of the lamp. If accidentally soiled, immediately clean the lamp with a soft, clean, lint-free cloth soaked in methylated spirits (denatured alcohol), and then polish with a dry, soft, clean, lint-free cloth.
- CAUTION:** Do not allow materials to come in contact with hot lamp. Protect lamp from abrasions and scratches. Although the lamp is quite stable at room temperature, it may still rupture if dropped or otherwise mishandled.
- CAUTION:** Keep all access doors closed and latched when operating this follow spot. HMI lamps are under high pressure during operation and reach very high temperatures (as high as 1740°F (950°C)). Under certain circumstances, internal or external influences may cause lamp to rupture.
- CAUTION:** Lamp life and performance can be greatly reduced by operating the lamp for periods of time less than 20 min.
- CAUTION:** When the lamp has reached its rated life, it must be removed from service since the risk of rupturing as a result of changes in the quartz glass (recrystallization) increases over time.
- CAUTION:** HMI lamps contain mercury. Never place unshattered lamps in ordinary refuse containers. To dispose of expended lamps, follow these instructions:
- 1) Wear safety goggles, gloves, and other protective outer clothing.
 - 2) Wrap cool lamp tightly in several layers of canvas or heavy cloth.
 - 3) Place bundle on stable, hard surface.
 - 4) Clear the area of all other persons to protect them from shattering glass.
 - 5) Shatter the lamp with a sharp hammer blow.
 - 6) Dispose of the entire bundle (cloth, glass, etc.) in accordance with local, state, and federal laws outlining the disposal of substances containing mercury.

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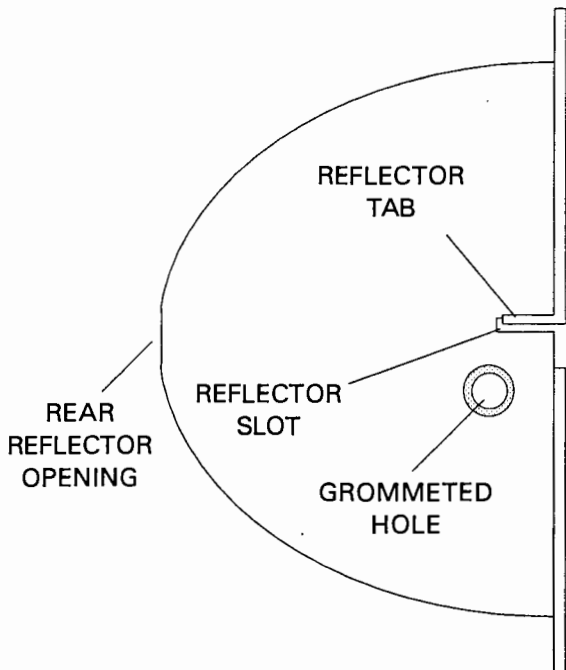
Before Proceeding: It is important that you study the illustrations below so that you are familiar with the terminology used within. You may also need to refer back to them as you get further along in the installation procedure. To make part identification easier, any component mentioned in the installation procedure that is illustrated below will be underlined> within the procedure.

NOTE: This lamp should be installed by qualified personnel only!

LAMP/JUMPER WIRE/REAR LAMP TERMINAL SUPPORT ILLUSTRATION



REFLECTOR ILLUSTRATION



The Satellite-1 lamp installation kit consists of:

- (1) OSRAM HMI 575 W/GS Lamp (with wing strap attached)
- (1) Reflector Assembly
- (1) Jumper Wire

The following items will be needed to properly install the lamp:

- Safety goggles
- 5/16" nut driver
- Slotted tip screwdriver

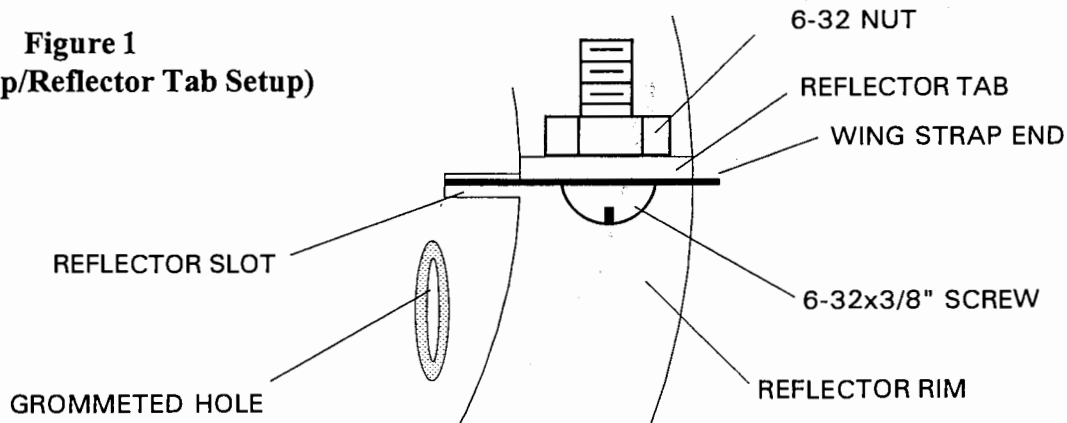
Note: You should keep denatured alcohol and a soft, clean, lint-free cloth close by should glass portion of lamp become accidentally soiled.

To install the lamp into SATELLITE-1 reflector, follow the instructions below in numerical order.

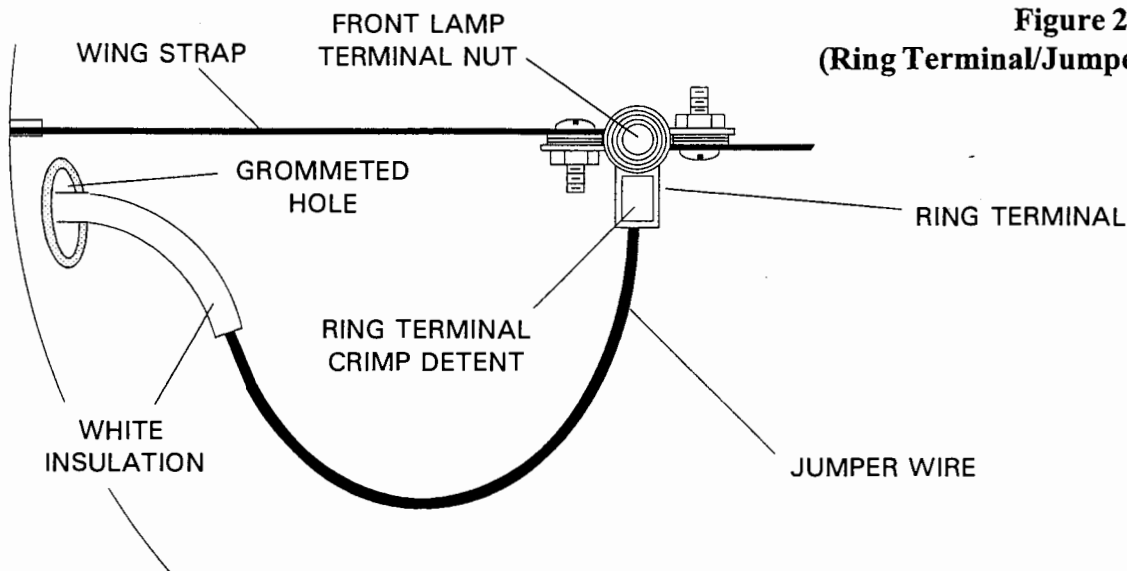
Note: If you are unclear about a procedure, then please call the factory for assistance.

- 1) Remove the two 6-32 x 3/8" screws and 6-32 nuts from the reflector tabs. Save screws and nuts.
- 2) Carefully unpack the lamp with wing strap attached from its container.
- 3) Remove the rear lamp terminal nut from the rear lamp terminal. Save nut.
- 4) Insert lamp into reflector such that the rear lamp terminal extends through the rear reflector opening and into the rear lamp terminal support, while simultaneously inserting the wing strap ends into the two side reflector slots. NOTE: Lamp/wing strap assembly may be held and manipulated by the front lamp terminal nut.
- 5) Secure the wing strap ends to the reflector tabs using the nuts and screws retained from step 2 (see figure 1).

**Figure 1
(Wing Strap/Reflector Tab Setup)**

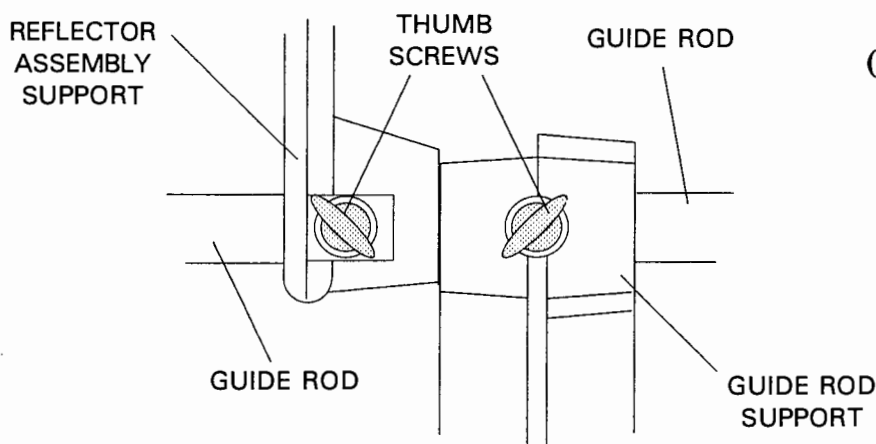


- 6) Rotate lamp using the front lamp terminal nut as a grip until the lamp node is pointing straight up.
- 7) Secure the rear lamp terminal nut retained from step 3 to the rear lamp terminal. At this point, the lamp should be centered within the rear reflector opening. You may need to adjust the rear lamp terminal support via the wing nut directly behind it in order to accomplish this. NOTE: All nuts should be finger tight. Using tools may overtighten the connections and cause damage to the threads.
- 8) Remove front lamp terminal nut. Save nut.
- 9) From the outside of the reflector, insert ring terminal end of the jumper wire into grommeted reflector hole. Place the ring terminal onto the front lamp terminal with the detent of the ring terminal crimp facing away from the lamp. The white wire insulation should extend approximately 1-1/2" into the reflector cavity, and the jumper wire should be looped downward (see figure 2).



10) With its ring terminal crimp barrel extending straight down, secure the ring terminal to the front lamp terminal using the front lamp terminal nut retained from step 8. NOTE: This nut should be finger tight. Using tools may overtighten the connection and cause damage to the threads.

11) Install the now completed lamp/reflector assembly onto the followspot guide rods such that the two reflector assembly supports butt up against their respective guide rod supports. Hand tighten the thumb screws on the two reflector assembly supports to their respective guide rods (see figure 3).



12) Connect the jumper wire to its respective lead wire which is attached to the ignitor. Make sure that the spade connectors are fully engaged.

13) Remove the rear lamp terminal nut from the rear lamp terminal. Save nut.

14) Connect the rear lamp terminal lead wire, which is attached to the ignitor, to the rear lamp terminal using the lamp terminal nut retained from step 13. NOTE: This nut should be finger tight. Using tools may overtighten the connection and cause damage to the threads.

15) Optimum lamp alignment can be accomplished by adjusting the vertical position of the rear lamp terminal support via the wing nut directly behind it, and horizontal adjustments can be made via the wing nut directly below it. NOTE: These nuts should be finger tight. WARNING: Make these adjustments ONLY when the follow spot is disconnected from its electrical supply! Do not adjust the three brass nuts located around the reflector rim. They are preset at the factory.