A WORD FROM STERIS CORPORATION

**IMPORTANT:** a summary of the safety precautions to be observed when operating this light can be found in Section 1. Do not operate the light until you have become familiar with this information.

This manual contains important information on proper use and maintenance of this surgical lighting fixture. All operators and department heads are urged to carefully review and become familiar with the warnings, cautions and instructions contained herein.

---

**Indications for Use**

Your new surgical lighting fixture features an advanced, state-of-the-art design, with cool, shadow-reduced light, ease of maneuverability, and versatile mounting configurations. It produces light of a quality necessary for the most demanding and complex of surgical procedures.

---

**Service Information**

A thorough preventive maintenance program is essential to safe and proper operation of your surgical light. You are encouraged to contact STERIS concerning our Annual Maintenance Agreement. Under terms of this agreement, preventive maintenance, adjustments, and replacement of worn parts are done on a scheduled basis to assure performance at peak capability and to help avoid untimely or costly production schedule interruptions. STERIS maintains a nationwide staff of well-equipped, factory-trained technicians to provide this service, as well as expert repair services. Contact your STERIS representative for details.

This light is not designed to be used in the presence of flammable anesthetizing gases.

---

**Advisory**

A Note About Beam Temperature: The Illuminating Engineering Society (IES) recommends that the users of surgical lighting systems be notified if the system is capable of transmitting more than 25,000 micro watts per square centimeter.

At a total illumination level (single or multiple lightheads) in excess of 8,400 footcandles, the Polaris System is capable of transmitting more than 25,000 micro watts.

As with any product of this type, due caution should be taken when used at high levels of intensity.
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POLARIS™ Surgical Lighting Fixture
and Variable Intensity Controller
LISTING OF WARNINGS AND CAUTIONS

The following is a summary of safety precautions which must be observed when operating or servicing this lighting fixture. WARNINGS indicate the potential for danger to personnel, and CAUTIONS indicate the potential for damage to equipment. These precautions are repeated (in whole or in part) where applicable throughout the manual.

WARNING - EXPLOSION HAZARD:

⚠️ If the light is being used in a Class 1, Group C, hazardous location as defined by the NFPA flammable anesthetics code, do not lower the lighthouse below the five-foot level.

WARNING - PERSONAL INJURY HAZARD:

⚠️ Repairs and adjustments, other than those described in these instructions, should be attempted only by experienced persons fully acquainted with this equipment. Use of inexperienced, unqualified persons to work on the equipment or the installation of unauthorized parts could cause personal injury or result in costly damage.

⚠️ This light should never be operated without the heat filters properly installed. Use of the fixture without the heat filters could cause personal injury.

WARNING - ELECTRIC SHOCK AND BURN HAZARD:

⚠️ Before performing any cleaning procedures, be sure power to lighthouse is off. Also be sure reflector outer cover is cool before touching.

⚠️ Be sure electrical service is shut off at disconnect switch or fusebox before beginning any maintenance on this lighting fixture. Also, be sure reflector outer cover and lamp holder are cool before touching.

CAUTION - POTENTIAL EQUIPMENT DAMAGE HAZARD:

⚠️ Avoid rough treatment of lighthouse(s) at all times and in particular, during use. Refrain from bumping lighthouse(s) into walls or other equipment.

⚠️ Use only recommended cleaning/disinfecting and/or antistatic agents on this light. Some degree of staining, pitting and/or discoloration could occur if a phenolic-, iodophor- or glutaraldehyde-based disinfectant is used on the surface of this light. Also, use of alcohol or aerosol spray cleaner disinfectants (e.g., Lysol ) containing a substantial amount of alcohol in the formula can damage the acrylic plastic lens.

⚠️ Take care to prevent leakage of fluids into interior of lighthouse. Do not attempt to clean the internal glassware as deterioration may result.

⚠️ Do not use alcohol or abrasive compounds on lens.

⚠️ Do not touch glass portion of lamp when relamping or in general cleaning. Skin oils are harmful to lamp life. If glass is touched, wipe with alcohol and pat dry. Use clean, soft, white cloths only.

⚠️ Two people are required when inspecting the light arm suspension.

*Lehn & Fink, Div. of Sterling Drug, Inc.*
Installation

An Equipment Drawing showing all of the space and utility requirements was sent to the purchaser after the order for this Surgical Lighting Fixture was received. The clearance space shown on the drawing is necessary for proper installation, operation and maintenance of the fixture.

Installation and Uncrating Instructions were furnished with the Lighting Fixture. If these documents are missing or misplaced, contact STERIS, giving the serial, unit and model numbers of the equipment. Replacement copies will be sent to you promptly.

**NOTE:** A disconnect switch should be installed in the electric supply line near the fixture’s variable intensity controller.

---

**2.1 Installation Check List**

Before operating the equipment, complete the following checklist, to be sure installation incomplete and correct. (Refer to page iii to locate parts).

- **Check Vertical Suspension Tube Pinning**
  The suspension arm should not rotate when the vertical suspension tube is held in place. Also, the vertical suspension tube (central mount) or carriage shaft (track mount) should not rotate. (Refer to page iii to locate parts.)

- **Check Brake Adjustment**
  The lighthead assembly should move smoothly and easily. When positioned, the lighthead should not drift.

- **Check Operation of Fixture**
  - With electric power ON at the fuse box or disconnect switch, and at the variable intensity controller (circuit breaker switch and rotary knob), turning the rotary knob should give power at each intensity setting.
  - Track-mounted fixtures should have no "dead spots" in the trolley duct when the carriage is slowly moved from one end of the track to the other.

  **NOTE:** Turn power OFF at variable intensity control (rotary knob and circuit breaker switch) when testing is completed.

---

**WARNING – ELECTRIC SHOCK AND BURN HAZARD:** Be sure electrical service is shut off at disconnect switch or fuse box before beginning work.
Each lighthead has its own wall-mounted, Variable Intensity Controller (Figure 3-1). The number on the rotary switch corresponds to the number on the lighthead suspension fork. To operate the Controller:

- Push ON-OFF circuit breaker to ON.
- Turn lighthead(s) on by rotating the rotary switch(es) to a number, 1 through 5. The higher the number, the higher the intensity.
- To turn lighthead off, rotate rotary switch(es) to OFF.
- Push ON-OFF circuit breaker to OFF.

**WARNING – PERSONAL INJURY HAZARD:** This light should never be operated without the heat filters properly installed. Use of the fixture without the heat filters could cause personal injury.

*NOTE: For longer lamp life, use higher intensity levels only when needed.
3.2 Lighthead Movement

**CAUTION: Avoid rough treatment of lighthead(s) at all times and in particular, during use. Refrain from bumping lighthead(s) into walls or other equipment.**

The following movements can be made by using either the removable (sterile) handle on the lighthead or the non-sterile handle on the reflector outer cover:

- **Track-mounted Lighthead** (Figure 3-2) may (1) travel the length of the track; (2) rotate 360 degrees around vertical suspension tube; (3) rotate clockwise or counterclockwise about horizontal suspension arm (within limits of stops) approximately 540 degrees; (4) tilt forward or backward in yoke approximately 320 degrees; and (5) move up or down by pivoting at suspension fork: 7 inches up without it touching the ceiling, 11 inches down without electrical components entering the area above the floor defined as hazardous by NFPA’s Flammable Anesthetics Code. (It may be lowered an additional 12 inches if adjusted for use in a nonflammable anesthetizing location — see paragraph 5.7.)

- **Central-mount Lighthead** (Figure 3-3) may (1) rotate continuously around vertical suspension tube; (2) rotate continuously around central hub; (3) rotate clockwise or counterclockwise about horizontal suspension arm (within the limits of stops) approximately 540 degrees; (4) tilt forward or backward in yoke approximately 320 degrees; and (5) move up or down by pivoting at suspension fork: 7 inches up without it touching the ceiling, 11 inches down without electrical components entering the area above the floor defined as hazardous by NFPA’s Flammable Anesthetics Code. (It may be lowered an additional 12 inches if adjusted for use in a nonflammable anesthetizing location - see Paragraph 5.7.)

![Figure 3-2. Track-Mounted Lighthead](image1)

![Figure 3-3. Central-Mounted Lighthead](image2)
3.3 Light Pattern Adjustment

- Refer to Figure 3-4

Select light pattern size by moving the pattern selector handle on the lighthead outer cover to one of the three positions indicated on the decal. (Large pattern is generally used for surface illumination; small pattern, for cavity illumination.)

Figure 3-4. Light Pattern Adjustment
4.1 Cleaning Implements

**WARNING - ELECTRIC SHOCK AND BURN HAZARD:** Before performing any cleaning procedures, be sure power to lighthead is off, also be sure reflector outer cover is cool before touching.

**CAUTION:** Use only recommended cleaning/disinfecting and/or antistatic agents on this light. Some degree of staining, pitting and/or discoloration could occur if a phenolic-, iodophor-, glutaraldehyde-based disinfectant is used on the surfaces of this light. Also, use of alcohol or aerosol spray cleaner/disinfectants (e.g., Lysol) containing a substantial amount of alcohol in the formula can damage the acrylic plastic lens.

- Pail
- Sponge
- Cloth Wipes
- Rubber Gloves
- Mild Household Detergent (e.g., Joy)
- One of the following disinfecting agents available from STERIS:
  - Coverage® Spray TB (1424-63)
  - Germicidal Cloth (NK350, NK352)
  - Coverage® Spray HB (1424-63)
  - Coverage® HB Concentrate (1420-08)
  - T.B.Q.® (6345-08)
  - Coverage Plus® (6367-08)
- Antistatic Acrylic Cleaner (for plastic lens).

Joy® is a registered trademark of Procter & Gamble.

Lysol® is a registered trademark of Lehn & Fink. Div. of Sterling Drug, Inc.
4.2 Areas To Be Cleaned

Refer to Figure 4-1

The cleaning and disinfecting procedures described in paragraphs 4.3 and 4.4 apply to each of the following areas:

- **Suspension Arm** - wipe the entire suspension arm, including the suspension fork and yoke.
- **Lamp Holder Assembly** - position pattern selector handle at small pattern (bottom circle). Wipe the portion of the assembly that protrudes from the lighthead.
- **Lighthead** - position pattern Selection handle at large pattern (top circle). Wipe both top and side surfaces.

**CAUTION:** Take care to prevent leakage of fluids into interior of lighthead. Do not attempt to clean the internal glassware as deterioration may result.

Figure 4-1. Areas to Be Cleaned
4.3 General Cleaning Procedure

1. Wear rubber gloves.
2. Use a sponge and a mild detergent and wring excess solution from sponge before wiping.
3. Rinse all surfaces with a soft cloth wipe and clear water. Wring excess solution from cloth before wiping.
4. Wipe It surfaces dry with a fresh cloth.

4.4 Disinfecting Procedure

1. Wear rubber gloves.
2. Prepare disinfectant solution according to container directions.
3. Use a soft cloth wipe and disinfectant solution. Wring excess solution from cloth before wiping.
4. Wipe all surfaces dry with a fresh cloth.

4.5 Cleaning the Acrylic Lens

- CAUTION: Do not use alcohol or abrasive compounds on lens.

1. Remove the sterile handle.
2. Clean the lens with a commercially available antistatic acrylic cleaner and a soft cloth.
3. Do not install sterile handle until light is to be used.
WARNING-PERSONAL INJURY HAZARD: Repairs and adjustments, other than those described in these instructions, should be attempted only by experienced persons fully acquainted with this equipment. Use of inexperienced, unqualified persons to work on the equipment or the installation of unauthorized parts could cause personal injury or result in costly damage.

5.1 Preventive Maintenance

<table>
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<tr>
<th>Schedule Procedure</th>
<th>Frequency*</th>
<th>Paragraph</th>
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<tr>
<td>• Inspect Lamp Holder and Lamp</td>
<td>every 2 mos.</td>
<td>5.1.1</td>
</tr>
<tr>
<td>• Check Vertical Suspension Tube Pinning</td>
<td>every 2 mos.</td>
<td>5.1.2</td>
</tr>
<tr>
<td>• Inspect Brushes (Central Mount)</td>
<td>every 6 mos.</td>
<td>5.1.3</td>
</tr>
<tr>
<td>• Check Hub Cap (Central Mount)</td>
<td>every 2 mos.</td>
<td>5.1.4</td>
</tr>
<tr>
<td>• Inspect Track (Track Mount)</td>
<td>every 2 mos.</td>
<td>5.1.5</td>
</tr>
<tr>
<td>• Check Lighthead Rotation Friction Brake</td>
<td>every 2 mos.</td>
<td>5.1.6</td>
</tr>
<tr>
<td>• Check Variable Intensity Control</td>
<td>every 2 mos.</td>
<td>5.1.7</td>
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</table>

* These procedures should be performed at regular intervals as indicated. This frequency is minimum and should be increased if usage demands.
### 5.1.1 Inspect Lamp Holder and Lamp

**WARNING-ELECTRIC SHOCK AND BURN HAZARD:** Be sure electrical service is shut off at disconnect switch or fuse box before beginning any maintenance on this lighting fixture. Also, be sure reflector outer cover and lamp holder are cool before touching.

**CAUTION:** Do not touch the glass portion of the lamp when relamping or in general cleaning. Skin oils are harmful to lamp life. If glass is touched, wipe with alcohol and pat dry. Use clean, soft, white cloths only.

- **Refer to Figure 5-1**
  1. Place pattern selector handle in RELAMP position and remove lamp holder assembly.
  2. Inspect the lamp for damage or discoloration. Replace if necessary.
  3. Check to see that there are no burnt socket contacts in the lamp socket.
  4. Check that lamp is firmly seated in its socket.
  5. Check wires leading to socket assembly. If wires are frayed or insulation is worn, replace wires.
  6. Check that detent is properly adjusted so lamp holder slips smoothly into rack support (see Figure 5-1). Readjust if necessary.
  7. Install lamp holder assembly, making sure that wires do not interfere with full and secure assembly. (See Figure 5-2)

![Figure 5-1. Inspect Lamp Holder and Lamp](image1)

![Figure 5-2. Positioning Lamp Holder Wires](image2)
1. While second person supports the light arm assembly, securely position a cloth-type strap wrench on the vertical suspension tube above the suspension fork (see Figure 5-3).

2. Have second person attempt to rotate the light arm assembly around the vertical suspension tube.

3. If light assembly can be rotated when the suspension tube is held in place, have STERIS service representative inspect lower drive rivets and correct if necessary.

4. Then, depending upon mounting configuration (see Figure 5-4):
   
   a. **Central Mount** - with strap wrench around the vertical suspension tube, insert a 9/16-inch Allen wrench (or 1-1/2-inch box wrench) in the hex nut of the horizontal suspension arm pivot, to prevent rotation (see Figure 5-4). If vertical suspension tube can be rotated, have STERIS service representative inspect the upper drive rivets and correct if necessary.

   b. **Track Mount** - with strap wrench around the vertical suspension tube, insert a screwdriver through the carriage shaft, to prevent rotation (see Figure 5-4). If vertical suspension tube can be rotated, have STERIS service representative inspect the upper drive rivets and correct if necessary.
5.1.3 Inspect Central Mount Brushes

- Refer to Figure 5-5

1. Remove name plate and cover assembly from each end of suspension arm.
2. Disconnect all three wires from brush holder assembly. Secure wires by bending sideways, so that they will not slip into hub.
3. Remove the three screws which secure brush holder.
4. Remove brush holder from arm.
5. Examine collector rings for burned spots, dirt, etc., and clean as necessary. If burn marks are excessive, contact STERIS service representative.
6. Check condition of brushes. If discolored or damaged, replace.
7. Reassemble items by following above steps in reverse order. Black wire must be connected to top terminal on brush holder, white wire to bottom terminal, and green wire to middle terminal.

NOTE: If light flickers when central mount arm is rotated, order kit P-764315-406 (one per arm). For commutator cleaning, contact your STERIS service representative.

Figure 5-5. Inspect Brushes

5.1.4 Check Hub Cap (Central Mount)

1. Inspect fit of hubcap to suspension arm (see Figure 5-4). There should be no gaps between hubcap outer edge and surface of arm at any point of a 360 degree rotation.
2. If any gaps are detected, tighten hub cap mounting screws.
5.1.5 Inspect Track
(Track Mount)

1. Move carriage back and forth on track several times to check that electrical contact is constant.
   • Carriage should move freely on track, without rubbing or excessive looseness.
   • Some side movement is to be expected when lighthead position is changed from one side of track to the other.

2. If carriage does not move smoothly, contact your STERIS service representative to check the trolley duct.

5.1.6 Check Lighthead Rotation Friction Brake

1. Lighthead should not drift when placed in a set position.

2. Excessive force should not be required to move the lighthead.

3. Refer to Paragraph 5.6 if adjustment is necessary.

NOTE: Proper friction is only that amount required to hold lighthead in a set position without drifting. Additional friction increases wear on the brake lining and can cause noisy operation.

5.1.7 Check Variable Intensity Control

1. Check fuse or fuse holder.

2. (Recessed models only - remove front trim cover by removing the screws.)

3. Remove the four screws from top and bottom of front panel.

4. Pull front panel forward to expose interior wiring. Front panel can suspend from retaining chain.

5. Inspect all wiring, terminals, and connections for damage or deterioration.

6. Check operation of circuit breaker by cycling several times, ensuring that breaker latches ON each time it is pressed.

7. Re-install controller cover(s).

8. Set circuit breaker to ON.

9. Rotate controller knob from OFF through each of the five settings. Each advance in knob position should increase the light intensity, and increase the voltage reading at the terminal block (behind the suspension fork cover).
### 5.2 Lamp Replacement

- **WARNING-BURN HAZARD:** Be sure reflector outer cover, lamp holder, lamp, and socket are cool before beginning relamping procedure.

- **CAUTION:** Do not touch glass portion of new lamp when relamping or in general cleaning. Skin oils are harmful to lamp life. Do not remove protective wrapper until lamp is installed. If glass is touched, wipe with alcohol and pat dry. Use clean, soft, white cloths only.

#### Refer to Figure 5-6

1. Rotate pattern selector handle to small pattern, depress plunger, and then rotate the handle to RELAMP position.
2. Pull lamp holder from back of light and unplug lamp.
3. Grasp new lamp by its ceramic base (do not remove protective wrapper - do not touch glass) and plug into lamp holder.
4. Remove protective wrapper from lamp.
5. Snap lamp holder back into light; be sure wires are not caught between lamp holder and housing. (NOTE: Wires should wrap 3/4 of the way around focus support — see inset.)
6. Rotate focus handle to desired position.

![Figure 5-6. Lamp Replacement](image)

### 5.3 Central Hub Brake Adjustment

- **Refer to Figure 5-5**

Both central and outer pivots on support arms have an adjustable setscrew to control force required to position light head. These can be easily adjusted by tightening or loosening with an Allen wrench.

**NOTE:** Proper friction is only that amount required to hold light head in a set position without drifting. Additional friction increases wear on the brake lining and can cause noisy operation.
5.4 Counterbalance Adjustment

- Refer to Figure 5-7

Should drifting occur, remove the suspension fork side cover, and adjust the spring tension by turning the adjusting nut. Turn wrench down-ward to increase tension if lighthead drifts down; turn wrench upward to decrease tension if light-head drifts up. Be careful not to pinch wires when replacing cover.

5.5 Yoke Pivot Adjustment

- Refer to Figure 5-8

Should drifting at the yoke pivot occur, tighten the setscrew to introduce sufficient friction within the joint to ensure smooth rotation within the pivot, but no drifting.

5.6 Lighthead Pivot Adjustment

- Refer to Figure 5-8

1. Remove plug button on left side of yoke.
2. Loosen locknut.
3. Adjust friction setscrew only enough to prevent drift. Tighten to increase force required to tilt lighthead; loosen to decrease force required.
4. Replace plug button.

![Figure 5-7. Counterbalance Adjustment](image1)

![Figure 5-8. Adjustment of Pivots](image2)
5.7 Arm Adjustment
For Additional Downward Travel

WARNING-EXPLOSION HAZARD: If the light is being used in a Class 1, Group C, hazardous location as defined by NFPA Flammable Anesthetics Code, the following adjustment should not be made.

- Refer to Figure 5-9

The fixture may have been installed so that the lighthead does not travel below the five-foot level, the level defined as hazardous (in the presence of flammable or mixed anesthetics) by the NFPA Flammable Anesthetics Code. To allow the lighthead to travel below the five-foot level, in nonflammable anesthetizing locations only, remove the suspension fork side cover and take out the nylon stop screws and washers. Store the stop screw and washers in the bronze plate as shown in Figure 5-9. Replace suspension fork side cover. Check that light lowering is smooth and continuous without drifting. Adjust if necessary.

Figure 5-9. Downward Travel Adjustment
When ordering replacement parts, please include the part numbers and descriptions listed subsequently.
To hasten service to you, include on your order the model and serial numbers of this equipment.
Send your order directly to the Regional Office which serves your area. Your STERIS representative will give you the address as well as ordering information regarding other parts.

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<th>NAME</th>
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<td>Fuse, 15 Amp (box of 10)</td>
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