# Serial Numbers

Please locate and write down the Serial Numbers on the A-5110 Dental Light and Transformer. Having this information available will aid in the identification of your dental light and transformer.

<table>
<thead>
<tr>
<th>Dental Light Serial Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transformer Serial Number</td>
</tr>
</tbody>
</table>

The Proma label is located in two locations on the dental light system. The dental light serial number is located on the light arm and the Transformer serial number is located on top of the transformer housing.

The serial number is located along the left edge of the label.

---

## Bulb Replacement

**Note:** A replacement bulb is included. Please locate it and store in a convenient place. Order replacement Light Bulb Proma #93146

**WARNING!**

Turn the light off and allow cooling before removing the shield. Failure to do so can cause injury by burning. Always handle bulbs with tissue paper, do not allow skin to contact the bulb, as it will shorten the life.

Remove the shield by gently squeezing the ends and pull it toward you.

Remove the bulb by wrapping in tissue and gently pulling forward.

The replacement bulb should be pushed in gently. The lamp pins must be securely in the lamp socket.

Replace the shield by squeezing the sides and gently pushing it into the housing. You will hear a "Click" when the shield seats properly.

**WARNING!**

Failure to properly seat the shield could allow it to fall off and cause injury.

Turn on the light and check the focus by shining the light on a surface 27" away. The light pattern should be even with defined edges over an area of 4" x 6½". If necessary, rotate the focus adjustment.
Specifications

Electrical Input:
Voltage: 120 V~
Phase: 1
Frequency: 60 Hz
Power: 150 W

Electrical Output:
Voltage: 13-19 V~
Current: 3.4-5 Amps

Operating Conditions

Ambient
Temperature: +10 C to +40 C
Humidity: 30% to 75%

Atmospheric
Pressure Range: 700 hPa to 1060 hPa

Storage & Shipping

Ambient
Temperature: -40 C to +70 C
Humidity: 10 to 95 RH
(non-condensing)

Atmospheric
Pressure Range: 7 to 15 psi
(50 to 106 Kpa)

Classifications

Classification of Equipment: Class I

Degree of Protection against harmful ingress of water: Ordinary

Mode of Operation: Intermittent

Technical Support

For Technical support and repair assistance, contact your local Proma dealer

Installation Overview

1. Check Product Contents

Immediately upon receipt, open the box, examine for damage and compare contents to the packing slip. If not as ordered, please notify your dealer. If hidden shipping damage is identified, immediately contact the shipping service. Contact Proma to arrange for replacement goods.

2. Read all Cautions/Warnings on Labels and in this Manual

Check the product for all caution and warning labels and read them. Review this manual for all cautions and warnings prior to installation.

3. Check Installation Site and Access

Before installation, check room dimensions, locate required tools and establish clear access to the site. SHUT OFF ELECTRICAL POWER to the appropriate outlet.

4. Prepare Electrical Connections

Confirm the electrical connections to be used. Locate all switches and circuit breakers involved.

5. Test and Adjust Product after Installation

It is important to complete any installation by verifying all connections and controls are functioning properly before allowing the device to be used for patient treatment.

6. Train Personnel on Operating Equipment

Educate staff on the product’s proper use, cleaning and disinfection. Identify parts that may require replacement (i.e. lamps, lens covers and fuses).

Recommended Service Tools

- Allen Wrench Set
- Bubble Level
- Tape Measure
- Phillips Screw Drivers

Electrical Connections and Supply

Note: a licensed electrician must perform all wiring. Due to varying city electrical codes, the dealer should ensure installation will meet local requirements. Proma cannot be responsible for an installation that does not meet local electrical codes. Installer must meet the following additional requirements:

- 115 Volts AC (minimum) electrical power
- Use wiring with insulation rated for 90º C minimum. Ensure all wiring is properly grounded. Protect circuit with circuit breaker

CAUTION

Possible fire hazard when used with oxygen administering equipment other than the nasal mask or ½ length bed tent type. Oxygen tent should not extend below mattress support level.

To ensure proper grounding, plug unit into “Hospital Only” or “Hospital Grade” outlet.

Transformer Cover to be removed by Qualified Service Personnel Only

DANGER!

Risk of explosion if used in the presence of flammable anesthetics!
Risk of Fire. Replace fuse as marked
## Installation Notes

1. Install the light post in accordance with instructions of the unit manual.

2. Insert the light bushing into the post and lubricate the bushing using a light film of white grease.

3. Install the arm into the bushing. It is recommended that one person feed the power cable through the bushing and post, while an assistant holds the arm/head assembly. After the cable is in place, lower the arm hub into the bushing.

4. Position the transformer box within the floor junction box.

5. Plug the low voltage cable from the light into the receptacle in the transformer box.

6. Plug the hospital grade plug from the transformer into a 120 VAC hospital grade outlet.

**Note:** Isolation of equipment from the main power supply is achieved by disconnecting this plug from the outlet.

7. Test the light. The switch is immediately behind the light head. This is a three-position switch; center is OFF, left is the normal operating intensity and right is maximum intensity for color matching.

## Cleaning Instructions

### Use Disposable Plastic Films and Foils

Proma encourages the use of disposable films and foils on the handles and surfaces commonly touched with gloved hands. This can reduce the need for chemical surface disinfection and extend life span and appearance of these surfaces.

### Do Not Soak Plastic Parts

The useful life of many plastics may be greatly shortened by soaking in disinfectant solution for extended periods of time.

### Cleaning Your Proma Light

Clean and disinfect the unit at beginning and end of each workday. The outside surfaces may be cleaned with a moist (not dripping) soft towel soaked in any mild soap and water solution. Wipe and dry with a soft towel. Do not use abrasive cleaners or rough paper towels which may scratch the molded surfaces. After cleaning, wipe surfaces with gauze sponge moistened (not dripping) in disinfectant.

Proma approves the use of mild soap and water solution, applied with a soft cloth. Proma recommends Birex®SE manufactured by Biotrol International

Proma will provide service advice and instructions as required for repair or replacement of this product. Call 1.310.327.0035 for service.

## Warranty

Proma warrants its products against defects in materials and/or workmanship for five (5) years from the date of shipment from the factory. No other warranties are expressed or implied. No employee, representative or dealer is authorized to change this warranty in any way, or grant any other warranty dealing with this product. Proma's sole obligation under this warranty is limited to repair, replace, or modify the defective part or product if, in its judgment, this is advisable. Labor and other costs for removal and reinstallation are not included in this warranty. The buyer shall have no other remedy. (All special, incidental, and consequential damages are excluded.) Written notice of breach of warranty must be given to Proma within the warranty period. The warranty does not cover damages resulting from improper installation or maintenance, accident or misuse. Warranty is void if product is not installed by an authorized Proma dealer. NO OTHER WARRANTIES AS TO MERCHANTABILITY, FITNESS FOR USE OR OTHERWISE ARE MADE. This warranty gives specific legal right, and there may also be other rights which vary from state to state. (Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply.)

Proma will provide service advice and instructions as required for repair or replacement of this product. Call 1.310.327.0035 for service.
On/Off Switch Lever Installation

Remove the white-rounded lever from the plastic bag that contains the spare fuses and spare bulb. Install the lever onto the On/Off switch by pressing it over the teardrop shape toggle until it bottoms-out. The lever is designed to fit onto the toggle with a minimum amount of force.

WARNING

Be careful not to over press the lever as you may damage the switch.

Auto On/Off Microswitch Adjustment

Remove plastic bottom cover by pulling down on the head end of arm. Use a 3/32” Allen wrench to loosen the set screw (marked “Adjust screw”). Move the screw towards the light head to lower the position that the light turns Off/On. Move the screw the opposite direction to raise the On/Off position.

Counterbalanced Spring Tension Adjustment

If light head drifts or springs back up, the spring tension needs to be counterbalanced. To get access to the tension nut and adjust the spring, remove the plastic bottom cover by pulling down on the head end of arm. Pass a flat head screwdriver through the slot on the inside of the extrusion. Rotate counterclockwise the splined nut for a stiffer spring and clockwise for a looser spring.

Friction Adjustment

Remove plastic bottom cover by pulling down on the head end of the arm. Use a 9/64” Allen wrench to tighten or loosen the two friction screws. If arm is drifting, tighten screws. If arm movement is too stiff, loosen the screws. Always turn both screws the same amount.

Note: The bottom cover snaps back into place without the use of any tools.