Introduction

Thank you for purchasing Shor-Line products. As a leader in animal care equipment, our commitment to provide quality products and personable customer service is the same as it was in 1927.

This Guide provides information regarding the installation, use, and care of your Shor-Line product. Keep this Guide in a safe and convenient place for reference.

*Read this guide completely before installation and use and thoroughly understand and follow all safety instructions.*

For further questions, to purchase additional products, or to replace a lost or damaged Guide, please feel free to contact Shor-Line:

**SHOR-LINE**

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511 Osage Ave.
Kansas City, Kansas 66105, USA
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LOCAL: 913.281.5339
FAX: 913.281.5339
EMAIL: guides@shor-line.com
WEB ADDRESS: shor-line.com

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Vale of Glamorgan CF71 7PF
United Kingdom
PHONE: +44 1446 77 20 41
FAX: +44 1446 77 36 68
EMAIL: quality@shor-line.co.uk
WEB ADDRESS: shor-line.co.uk

Shor-Line may provide instructions that supplement or supersede this Guide at any time. Contact Shor-Line to ensure the Guide is the latest version.

During installation, if a contradiction between this Guide, existing conditions, or local regulations arise, contact a Shor-Line representative before proceeding with installation.

*Installation and repair of the Prelude LED Exam Light must be performed by a qualified electrician and the site specific mount framing must be designed and certified by a qualified structural engineer. Failure to comply will result in a void of Shor-Line warranties.*

*This product is intended to be used for animals only. Do not use for anything other than the intended purpose.*

Shor-Line's **TERMS AND CONDITIONS** can be found at shor-line.com

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Safety Definitions

Refer to the Guide, images and content to assist with the installation and use of the product. Throughout the Guide, safety notices provide help for a successful installation.

SAFETY FIRST!

Shor-Line uses the following symbols and signal words to identify potential hazards or unsafe practices:

Safety Alert Symbol

Indicates a potential personal injury hazard exists. It is important to heed any safety warning information associated with this alert symbol.

Signal Words for Hazard Alerting Safety Messages

**DANGER**

Indicates a hazardous situation which, if not avoided, WILL result in serious injury or death.

**WARNING**

Indicates a hazardous situation which, if not avoided, COULD result in serious injury or death.

**CAUTION**

Indicates a hazardous situation which, if not avoided, COULD result in minor or moderate injury.

Important Information Symbol

**NOTICE**

Indicates information considered important but not directly hazard related.

Personal Protective Equipment (PPE)

PPE refers to protective clothing or other equipment designed to protect against injury. It is the responsibility of the client/installer to ensure all local and federal codes are adhered to during the installation of this product. Included is a list of PPE items suggested, but not limited to, protective equipment to help complete the installation safely.

- Eye protection
- Gloves

Shor-Line makes no guarantee, implied or otherwise, that the information included in this Guide will be complete or failsafe, or that the information will prevent an injury from occurring. Standard measures described may not reflect the full extent of all steps that may need to be taken in any given emergency instance.

**NOTICE**

Room temperature range for operation of the Exam Light is 20 – 25° Celsius (68 to 77° F).

Transport and store 4° to 122° F (-20° to 50° C) and 10-90% relative humidity.

Follow best management practices and recognized requirements for hygiene, cleaning, and disinfection.
Safety Warnings Included In This Guide

READ THIS GUIDE COMPLETELY BEFORE INSTALLATION AND USE AND THOROUGHLY UNDERSTAND AND FOLLOW ALL SAFETY INSTRUCTIONS.

Installation and repair of the Prelude LED Exam Light MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

The site specific mount framing for the Prelude LED Exam Light MUST BE DESIGNED AND CERTIFIED BY A QUALIFIED STRUCTURAL ENGINEER. Failure to comply with this requirement could result in structural failure which, if not avoided, will result in SERIOUS INJURY OR DEATH.

Power Supply and Circuity for end use components requires electrical isolation.

PRIOR TO AND DURING INSTALLATION AND MAINTENANCE, ALWAYS PROVIDE two protective measures in accordance with EN60601-1. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

PRIOR TO AND DURING INSTALLATION AND MAINTENANCE, ALWAYS ISOLATE AND DISCONNECT all three poles. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

DO NOT plug in power cord until the installation is complete and the equipment is ready to be tested. Contact with electrical/live circuit wiring can cause electrical shock, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

The spring arm is equipped with a tension spring that holds the head unit and arm in place. WHEN INSTALLING OR REMOVING a head unit to the spring arm, MAINTAIN CONTROL OF THE ARM at all times. The spring arm can rotate downward or spring up suddenly which could cause SERIOUS INJURY OR DEATH.

Stay clear of and DO NOT TOUCH exposed cut steel. Cutting steel can produce sharp or jagged edges which could cause serious lacerations which, if not avoided, could result in SERIOUS INJURY OR DEATH.

WEAR PERSONAL PROTECTIVE EQUIPMENT, such as, but not limited to, eye protection, ear protection, and gloves during installation. Failure to do so could result in SERIOUS INJURY OR DEATH.

WARNING: To avoid the risk of electrical shock, this equipment must only be connected to a supply mains with protective earth.

Only adjust the spring arm tension in the upper most position.

Over-tightening the tension screw can adversely affect the spring and cause irreparable damage to the equipment. Adjust in small increments and test performance between each adjustment.

Do NOT drape or hang the power cord to avoid tripping hazards.

Do NOT remove the four screws at the top of the upright post that secure the internal wiring mechanism, rotary coupler. Removing the screws will cause the mechanism to slide down inside the post, causing electrical connectivity failure.

Keep hands clear of possible pinch areas when moving parts, which if not avoided, could result in MINOR TO MODERATE INJURY.

Don't position the Mobile so that it is difficult to operate the plug.

For more information about your waste equipment for recycling, please contact your local city office or your waste disposal service provider.

DO NOT ATTEMPT TO DISASSEMBLE THE LIGHT OR ANY ASSOCIATED PRODUCT WITHOUT FIRST CONTACTING SHOR-LINE.

Mobile Exam Light: The power supply cord cannot be replaced; if the cord is damaged, the equipment shall be destroyed.

Ceiling and Wall Mount: Power switch shall be provided as a mean of isolating equipment from supply mains in field installation.
SECTION ONE

Shipment Inventory And Inspection

Shipment Inventory

Upon arrival, unpack and inspect the shipment to ensure it is complete and free of any damages that may have occurred during shipping. Compare the packing list with the shipment to ensure all parts/components have been received.

*This Guide can be used to identify parts and their associated part numbers listed on the packing slip.*

Shipment Inspection

While verifying the shipment contents, take a moment to inspect each component for damage. This should be done before the shipment is signed received and accepted. If damaged components are apparent, follow the claim procedures set forth by the carrier.

Damage Reporting

Follow the instructions within Shor-Line’s Damage and Freight Procedures. Call Shor-Line (800.444.1579) immediately to expedite replacements or repairs.

*After fifteen (15) calendar days of receipt of merchandise, this policy becomes void.*

Prelude LED Exam Light

The Prelude LED Exam Light is available with three mounting configurations to best serve a variety of space conditions. The wall mount frees space around three sides of the exam table, while the ceiling mount frees floor space around the table as well as provides freedom to locate an exam/surgery table away from wall surfaces for better access. The mobile exam light provides the freedom to move the light and/or the exam table where it may be most convenient.

*FIGURE 1.1 - Prelude LED Exam Light Head*
### Prelude LED Exam Light Assembly Contents

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>713.7000.03</td>
<td>Prelude LED Exam Light Head Unit</td>
<td>1</td>
</tr>
<tr>
<td>02</td>
<td>176.0004.00</td>
<td>Prelude LED Exam Light - Spring arm</td>
<td>1</td>
</tr>
<tr>
<td>03</td>
<td>175.0003.00</td>
<td>Prelude LED Exam Light - Wall Mount Assembly</td>
<td>1</td>
</tr>
</tbody>
</table>
FIGURE 1.3 - Prelude LED Exam Light, Ceiling Mount PN: 913.7000.03

### Prelude LED Exam Light Assembly Contents

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
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<tr>
<td>01</td>
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<td>Prelude LED Exam Light Head Unit</td>
<td>1</td>
</tr>
<tr>
<td>02</td>
<td>176.0004.00</td>
<td>Prelude LED Exam Light - Spring arm</td>
<td>1</td>
</tr>
<tr>
<td>03</td>
<td>175.0002.00</td>
<td>Prelude LED Exam Light - Ceiling Mount Assembly</td>
<td>1</td>
</tr>
<tr>
<td>04</td>
<td>300.2022.00</td>
<td>Prelude LED Exam Light - Ceiling Mount Plate (Not shown)</td>
<td>1</td>
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</tbody>
</table>
FIGURE 1.4 - Prelude LED Exam Light, Mobile PN: 913.7000.05

Prelude LED Exam Light Assembly Contents

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>713.7000.03</td>
<td>Prelude LED Exam Light Head Unit</td>
<td>1</td>
</tr>
<tr>
<td>02</td>
<td>176.0003.03</td>
<td>Prelude LED Exam Light - Spring arm</td>
<td>1</td>
</tr>
<tr>
<td>03</td>
<td>713.8000.04</td>
<td>Prelude LED Exam Light - Mobile Fixture</td>
<td>1</td>
</tr>
<tr>
<td>04</td>
<td>086.3000.10</td>
<td>Caster w/Locking Hub</td>
<td>2</td>
</tr>
<tr>
<td>05</td>
<td>086.3000.11</td>
<td>Caster w/o Locking Hub</td>
<td>2</td>
</tr>
</tbody>
</table>
SECTION ONE

Specifications

Prelude LED Exam Light - Weight Specifications

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Weight</th>
<th>Wall Mount</th>
<th>Ceiling Mount</th>
<th>Mobile Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td>713.7000.01</td>
<td>LED Light Head Assembly</td>
<td>5.4 lb (2.45 kg)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>176.0004.00</td>
<td>Spring Arm</td>
<td>8.2 lb (3.72 kg)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>175.0003.00</td>
<td>Wall Mount Bracket Assembly</td>
<td>4.0 lb (1.80 kg)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>175.0002.00</td>
<td>Ceiling Mount Bracket Assembly</td>
<td>17.4 lb (7.90 kg)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>176.0003.03</td>
<td>Mobile Spring Arm Assembly</td>
<td>4.0 lb (1.80 kg)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>713.8000.04</td>
<td>Mobile Base Assembly</td>
<td>99.0 lb (44.90 kg)</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Prelude LED Exam Light - Head Assembly

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
<td>Environment</td>
<td>Intended Location</td>
<td>Examination Room</td>
</tr>
<tr>
<td></td>
<td>Ease of Motion (See Motion Parameters Table)</td>
<td>Yes</td>
</tr>
<tr>
<td>Electrical</td>
<td>Input Voltage/Current</td>
<td>120 to 240 VAC, 60 and 50 HZ</td>
</tr>
<tr>
<td></td>
<td>Output</td>
<td>35 VDC 0.6 Amps</td>
</tr>
<tr>
<td>Optical</td>
<td>Central Illuminance (High)*</td>
<td>40,000 LUX</td>
</tr>
<tr>
<td></td>
<td>Central Illuminance (Low)*</td>
<td>20,000 LUX</td>
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<tr>
<td></td>
<td>Color Rendering Index (CRI)</td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>Color Temperature</td>
<td>4500K</td>
</tr>
<tr>
<td></td>
<td>LED Quantity</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>Light Field Diameter</td>
<td>9.5&quot; (240mm)</td>
</tr>
<tr>
<td></td>
<td>Light Distribution</td>
<td>4.75&quot; (120mm)</td>
</tr>
<tr>
<td></td>
<td>Total Irradiance (Maximum)</td>
<td>209W/m2</td>
</tr>
</tbody>
</table>

*Measured at 39.375" (1 meter)

NOTICE

Room temperature range for operation of the Exam Light is 20 – 25° Celsius (68 to 77° F).
<table>
<thead>
<tr>
<th>Component</th>
<th>Distance</th>
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</thead>
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<tr>
<td>Head Vertical Motion</td>
<td>47&quot; (194mm)</td>
</tr>
<tr>
<td>Head Horizontal Motion</td>
<td>360 degrees</td>
</tr>
<tr>
<td>Head Extended From Mount Axis</td>
<td>70&quot; (1778mm)</td>
</tr>
<tr>
<td>Head Lowest Position - 8ft Ceiling Height</td>
<td>34.5&quot; (876mm)</td>
</tr>
<tr>
<td>Head Lowest Position - 9ft Ceiling Height</td>
<td>46.5&quot; (1181mm)</td>
</tr>
<tr>
<td>Head Lowest Position - 10ft Ceiling Height</td>
<td>58.5&quot; (1486mm)</td>
</tr>
</tbody>
</table>

**FIGURE 1.5 - Prelude LED Exam Light, Mobile Configuration**
SECTION ONE

FIGURE 1.6 - Prelude LED Exam Light, Wall Mount Configuration

NOTE: Mounting height varies per local code requirements, verify.

FIGURE 1.7 - Prelude LED Exam Light, Ceiling Mount Configuration

NOTE: Mounting height varies per local code requirements, verify.

NOTE: Cut post to meet clear floor space and head clearance requirements.

FIGURE 1.8 - Isolation Circuit For Direct Connection Configurations

NOTE: Mounting height varies per local code requirements, verify.
Assembly Procedures

Prelude LED Exam Light

DANGER READ THIS GUIDE COMPLETELY BEFORE INSTALLATION AND USE AND THOROUGHLY UNDERSTAND AND FOLLOW ALL SAFETY INSTRUCTIONS.

There are three Prelude LED Exam Light models; Wall Mount, Ceiling Mount, and a Mobile Fixture are available.

The wall and ceiling mount models require fixture installation, while the mobile model requires only assembly. Depending on the fixture model and building construction, the installation construction types vary.

To replace an exam light on an existing light fixture, see “Prelude Exam LED Light Head Installation” and the fixture manufacturers installation procedures.

Installation and repair of the Prelude LED Exam Light MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

Power Supply and Circuity for end use components requires electrical isolation. PRIOR TO AND DURING INSTALLATION AND MAINTENANCE, ALWAYS PROVIDE two protective measures in accordance with EN60601-1. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

The fixtures must be assembled and installed correctly before attempting to install the LED light head. Installing the light head before the fixture is assembled and installed could cause damage to the equipment.

Wall Mount Installation

The wall mount fixture is designed and manufactured by Ondal Medical Systems.

The mount and fixture arms are packaged separately, and are shipped with Ondal installation and operation manuals.

Refer to Ondal installation manuals for complete installation and assembly fixture installation procedures.

Installation of an isolation circuit disconnect is required for direct connection configurations in accordance with IEC ES60601-1. Refer to FIGURE 1.8 for the electrical schematic of a direct connection isolation circuit.

Installation and repair of the Prelude LED Exam Light MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

The site specific mount framing for the Prelude LED Exam Light MUST BE DESIGNED AND CERTIFIED BY A QUALIFIED STRUCTURAL ENGINEER. Failure to comply with this requirement could result in structural failure which, if not avoided, will result in SERIOUS INJURY OR DEATH.
SECTION TWO

Wall Mount - Base Installation

Installation techniques may vary depending on the building construction and desired installation location.

The installer is responsible to provide any alternative mounting hardware required for other types of construction. The base mount must hold a minimum of 100 lb load.

The shipping cartons contain a Prelude LED Exam light wall mount assembly, spring arm assembly and Prelude LED Exam Light.

Keep hands clear of possible pinch areas when moving parts, which if not avoided, could result in MINOR TO MODERATE INJURY.

STEP 1: Remove the inner cover. Refer to FIGURE 2.2

STEP 2: Remove the outer plastic cover from the base plate. Refer to FIGURE 2.3

STEP 3: Use the base plate hole template to mark locations of the attachment holes (7.45", 190mm O.C.) on the wall surface, ensure proper blocking/framing is provided to support at least 100 lb load.

STEP 4: Refer to the anchor manufacturers recommendation for hole size, drill holes as required.

STEP 5: Following the anchor manufacturer’s procedures, set and secure wall anchors as recommended.

If a binding agent is used to anchor the base plate, allow the agent to set, harden completely before continuing with the installation.

STEP 6: Route mains wiring into the base plate and through the cable clamp. Secure wiring providing slack to reach the terminal block.

STEP 7: Align the base plate, insert hardware and secure the base plate to the wall. Refer to FIGURE 2.4

For outlet plug installations, follow the same steps while routing the cable through the top of the base plate. The plug will have to be fed through the outer plate cover access port. Refer to FIGURE 2.6

FIGURE 2.1 - Wall Mount Base

FIGURE 2.2 - Inner Cover

FIGURE 2.3 - Outer Cover

FIGURE 2.4 - Mounting Holes
There is a rotary coupler inside the post which is pre-wired to the terminal block and ground connector.

**STEP 8:** Strip mains wiring and secure the power and neutral to the terminal block. Refer to FIGURE 2.5

**STEP 9:** Strip the ground wire and connect to the ground terminal. Refer to FIGURE 2.5

**STEP 10:** Reinstall the outer plastic cover onto the base plate. Refer to FIGURE 2.6

**STEP 11:** Feed the outlet plug through the top access port if required. Refer to FIGURE 2.6

**STEP 12:** Reinstall the inner plastic cover. Refer to FIGURE 2.7

---

**Wall Mount - Spring arm Installation**

The spring arm attaches to the post on the wall mount. The extension arm end is secured to the base post.

**CAUTION**

Keep hands clear of possible pinch areas when moving parts, which if not avoided, could result in MINOR TO MODERATE INJURY.

**DANGER**

PRIOR TO AND DURING INSTALLATION AND MAINTENANCE, ALWAYS ISOLATE AND DISCONNECT all three poles. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

**STEP 1:** Remove the phillips head screw on the spring arm rotary cap. Refer to FIGURE 2.8

**STEP 2:** Remove the spring arm rotary cap by tilting forward and pulling the cap outward. The rotary pin assembly is attached to, and will slide out with the cap.

**STEP 3:** Lubricate the pivot coupler using roller bearing grease and contact surfaces with conductive grease. (e.g. Optimol)

**NOTICE**

Do NOT over grease the pivot coupler. Apply with a cotton swab, when connected to coupler, rotate fixture to evenly spread lubrication.
Keep hands clear of possible pinch areas when moving parts, which if not avoided, could result in minor to moderate injury.

**FIGURE 2.9 - Spring arm Installation**  **FIGURE 2.10 - Washer and Snap Ring**

**STEP 4:** Slide the extension arm onto the post, secure with the washers and snap ring to hold the spring arm on the post. Use snap ring pliers to install the snap ring inside the groove. Refer to FIGURE 2.9 and 2.10

**NOTICE** *Snap ring pliers are provided in the hardware package. Careful not to damage or bend the snap ring during installation.*

**STEP 5:** Feed the wire harness and rotary cap back into the extension arm coupling. Slide forward and secure the cap with the phillips screw. Refer to FIGURE 2.11

**FIGURE 2.11 - Rotary Cap**

**Prelude Exam Light Head Installation - Wall Mount**

*The fixtures must be assembled and installed correctly before attempting to install the LED light head. Installing the light head before the fixture is assembled and installed could cause damage to the equipment.*

Locate the retaining tab included with the spring arm fixture hardware kit. The retaining tab is used to secure the light head to the end of the spring arm.

**STEP 1:** Unscrew the sleeve lock screw to loosen the sleeve. Refer to FIGURE 2.12

**STEP 2:** Rotate the Sleeve aligning the notch with the slot in the arm. Refer to FIGURE 2.13

**FIGURE 2.12 - Sleeve Lock Screw**  **FIGURE 2.13 - Rotate Sleeve**
STEP 3: Lubricate the pivot coupler using roller bearing grease and contact surfaces with conductive grease and contact surfaces with conductive grease. (e.g. Optimol)

**NOTICE**

*Do NOT over grease the pivot coupler. Apply with a cotton swab, when connected to coupler, rotate fixture to evenly spread lubrication.*

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**FIGURE 2.14 - Insert Light Head**

**FIGURE 2.15 - Insert Retaining Tab**

STEP 4: Slide the light head into the arm, aligning the slot in the light head assembly with the arm slot. Refer to **FIGURE 2.14**

STEP 5: Insert the retaining tab to secure the light head to the arm. Refer to **FIGURE 2.15**

STEP 6: Rotate the sleeve to secure the key in place, tighten the sleeve lock screw. Refer to **FIGURE 2.16** and **2.17**

**FIGURE 2.16 - Rotate Sleeve**

**FIGURE 2.17 - Sleeve Lock Screw**

STEP 7: Reconnect power and test light operation and spring arm functions.
Wall Mount - Spring arm Spring Tension Adjustment

The spring arm must be adjusted to compensate for the weight of the head unit and through normal use. The spring arm should be adjusted to hold the head unit device still once located to the desired position. If the spring arm moves down or springs up, adjust the spring arm to the correct spring tension.

Depending on the weight of the head unit the spring arm may lower or raise.

⚠️ WARNING

_The spring arm is equipped with a tension spring that holds the head unit and arm in place. WHEN INSTALLING OR REMOVING a head unit to the spring arm, MAINTAIN CONTROL OF THE ARM at all times. The spring arm can rotate downward or spring up suddenly which could cause SERIOUS INJURY OR DEATH._

⚠️ CAUTION

_Only adjust the spring arm tension in the upper most position._

*Over-tightening the tension screw can adversely affect the spring and cause irreparable damage to the equipment. Adjust in small increments and test performance between each adjustment._

**STEP 1:** Remove the spring arm rotator joint cap by inserting a flat tip screwdriver and slightly pop the plastic cover from the joint assembly. Refer to FIGURE 2.18

**STEP 2:** Move the spring arm and end device to the upper most position.

**STEP 3:** Use a flathead screwdriver to adjust the spring arm tension.

- **A:** If the spring arm rotates downward, the tension force is set too low. Turn the adjustment screw counter clockwise a quarter turn, stop, test the tension. Repeat if required.

- **B:** If the spring arm rotates, or springs upward, the tension is set too high. Turn the adjustment screw clockwise a quarter turn, stop, test the tension. Repeat if required.
Ceiling Mount Installation

The ceiling mount fixture is designed and manufactured by Ondal Medical Systems. The mount and fixture arm are packaged separately, and are shipped with Ondal installation and operation manuals. Refer to Ondal installation manuals for complete installation and assembly procedures. Installation of an isolation circuit disconnect is required for direct connection configurations in accordance with IEC ES60601-1. Refer to FIGURE 1.8 for the electrical schematic of a direct connection isolation circuit.

**DANGER**

PRIOR TO AND DURING INSTALLATION AND MAINTENANCE, ALWAYS ISOLATE AND DISCONNECT all three poles. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

Installation and repair of the Prelude LED Exam Light MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

The site specific mount framing for the Prelude LED Exam Light MUST BE DESIGNED AND CERTIFIED BY A QUALIFIED STRUCTURAL ENGINEER. Failure to comply with this requirement could result in structural failure which, if not avoided, will result in SERIOUS INJURY OR DEATH.

Ceiling Mount - Base Installation

Installation techniques may vary depending on the building construction and desired installation location. The installer is responsible to provide any alternative mounting hardware required for other types of construction. The base mount must hold a minimum of 100 lb load. The shipping cartons contain a Prelude LED Exam light ceiling mount assembly, spring arm assembly, Prelude LED Exam Light and mounting plate.

**NOTICE**

The mounting plate is designed and provided for use with wood framing construction conditions, spanning between wood truss' at 16” on center. Do not use the mounting plate for other types of construction conditions.

**STEP 1:** Loosen the threaded pins and slide the base plate cover off the tube. Refer to FIGURE 2.19

**STEP 2:** Utilize the base plate hole template (see Ondal installation template) to mark hole locations, ensure proper blocking/framing is provided to support at least 100 lb load.

**STEP 3:** Refer to the anchor manufacturers recommendation for hole size, drill holes as required.

**STEP 4:** Following the anchor manufacturer's procedures, set and secure the anchor as recommended.
If a binding agent is used to anchor the base plate, allow the agent to set, harden completely before continuing with the installation. Before installing the base plate, measure the length between the floor and the bottom of the post. Refer to Post Height Adjustment to shorten the post length to meet safety and code clearance requirements.

STEP 5: Align the base plate with the holes, insert hardware and secure the base plate. Refer to FIGURE 2.20

STEP 6: Route mains wiring into the base plate and through the cable clamp. Secure wiring leaving enough slack to reach the terminal block. Refer to FIGURE 2.21

STEP 7: Strip mains wiring and secure the power and neutral to the terminal block.

STEP 8: Strip the ground wire and connect to the ground terminal.

STEP 9: Reinstall the base plate cover.
Ceiling Mount - Post Height Adjustment

Measure the length between the floor and the bottom of the post to ensure safety and code clearance requirements are met. The post can be cut raising the mounting height of the ceiling mount assembly.

**DANGER** Failure to isolate and disconnect all three poles during installation, and making contact with energized wiring will result in SERIOUS INJURY OR DEATH.

**STEP 1:** Measure the distance between the floor surface to the required height on the post. Mark cut-line on post. Refer to FIGURE 2.22

**STEP 2:** Remove the three threaded pins holding the pivot pin in place. Refer to FIGURE 2.22

**STEP 3:** Remove the mains from the terminals, remove the pivot pin assembly from the spacer tube.

**STEP 4:** Cut the spacer tube, deburr as required to remove sharp edges. Refer to FIGURE 2.23

**WARNING** Stay clear of and DO NOT TOUCH exposed cut steel. Cutting steel can produce sharp or jagged edges which could cause serious lacerations which, if not avoided, could result in SERIOUS INJURY OR DEATH.

**CAUTION** Keep hands clear of possible pinch areas when moving parts, which if not avoided, could result in MINOR TO MODERATE INJURY.

**STEP 5:** Use the hole location template to mark new hole locations on the post. Refer to FIGURE 2.24

**STEP 6:** Drill 5mm diameter holes, tap M6 threads in each hole.

**STEP 7:** Route the pivot pin wiring through the spacer tube.

**STEP 8:** Reconnect mains leads to the base terminals. Refer to FIGURE 2.21

**STEP 9:** Secure the pivot pin using the three threaded pins, ensure 4.3” of the spacer tube is exposed. Reinstall the base plate cover onto the spacer tube. Refer to FIGURE 2.24
Ceiling Mount - Extension/Spring arm Assembly

The extension arm end of the spring arm is secured to the pivot pin.

**DANGER**
*PRIOR TO AND DURING INSTALLATION AND MAINTENANCE, ALWAYS ISOLATE AND DISCONNECT all three poles. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.*

**STEP 1:** Remove the phillips head screw on the spring arm rotary cap. Refer to FIGURE 2.25

**STEP 2:** Remove the spring arm rotary cap by tilting it forward and pulling outward. The rotary pin assembly is attached and will slide out with the cap. Refer to FIGURE 2.25

**STEP 3:** Lubricate the pivot coupler using roller bearing grease and contact surfaces with conductive grease. (e.g. Optimol)

Keep hands clear of possible pinch areas when moving parts, which if not avoided, could result in MINOR TO MODERATE INJURY.

Enlist the help of others to support the extension arm during the installation process. The light head should NOT be attached during the spring arm installation procedures.

**STEP 4:** Slide the extension arm onto the post, secure with the washers and snap retaining ring. (Snap ring pliers provided in hardware package) Refer to FIGURE 2.26

**STEP 5:** Feed the wire harness and rotary cap back into the extension arm coupler. Slide forward and secure with phillips screw. Refer to FIGURE 2.27
Prelude LED Exam Light Head Installation - Ceiling Mount

Installation and repair of the Prelude LED Exam Light MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

The site specific mount framing for the Prelude LED Exam Light MUST BE DESIGNED AND CERTIFIED BY A QUALIFIED STRUCTURAL ENGINEER. Failure to comply with this requirement could result in structural failure which, if not avoided, will result in SERIOUS INJURY OR DEATH.

The fixture must be assembled and installed correctly before attempting to install the LED light head. Installing the light head before the fixtures are assembled and installed could cause damage to the equipment.

Locate the retaining tab packed with the spring arm fixture hardware kit. The retaining tab is used to secure the light head in the arm.

STEP 1: Unscrew the sleeve lock screw to loosen the sleeve. Refer to FIGURE 2.28

STEP 2: Rotate the Sleeve aligning the notch with the slot in the arm. Refer to FIGURE 2.29

STEP 3: Lubricate the pivot coupler using roller bearing grease and contact surfaces with conductive grease. (e.g. Optimol)

STEP 4: Slide the light head into the arm, aligning the slot in the light head assembly with the arm slot. Refer to FIGURE 2.30

STEP 5: Insert the retaining tab to secure the light head to the arm. Refer to FIGURE 2.31

STEP 6: Rotate the sleeve to secure the key in place, tighten the sleeve lock screw. Refer to FIGURE 2.32 and 2.33
STEP 7: Reconnect power and test light operation and spring arm functions.

Ceiling Mount - Spring arm Spring Tension Adjustment

The spring arm must be adjusted to compensate for the weight of the head unit and through normal use. The spring arm should be adjusted to hold the head unit device still once located to the desired position. If the spring arm moves down or springs up, adjust the spring arm to the correct spring tension.

Depending on the weight of the head unit the spring arm may lower or raise, not holding its position. Take special care during installation and removal of the head unit from the spring arm, as the spring arm could suddenly move down or up causing injury.

**WARNING**

_The spring arm is equipped with a tension spring that holds the head unit and arm in place. WHEN INSTALLING OR REMOVING a head unit to the spring arm, MAINTAIN CONTROL OF THE ARM at all times. The spring arm can rotate downward or spring up suddenly which could cause SERIOUS INJURY OR DEATH._

**CAUTION**

_Only adjust the spring arm tension in the upper most position._

_Over-tightening the tension screw can adversely affect the spring and cause irreparable damage to the equipment. Adjust in small increments and test performance._

STEP 1: Remove the spring arm rotator joint cap by inserting a flat tip screwdriver and slightly pop the plastic cover from the joint assembly. Refer to FIGURE 2.34

STEP 2: Move the spring arm and end device to the upper most position.

STEP 3: Use a flathead screwdriver to adjust the spring arm tension.

A: If the spring arm rotates downward, the tension force is set too low.

Turn the adjustment screw counter clockwise a quarter turn, stop, test the tension. Repeat if required.

B: If the spring arm rotates, or springs upward, the tension is set too high. Turn the adjustment screw clockwise a quarter turn, stop, test the tension. Repeat if required.
Mobile Installation

The mobile base, fixture arm and lamp head are packaged separately. The fixture arm is shipped with Ondal installation and operation manuals.

Refer to Ondal installation manuals for complete installation and assembly of the fixture arm.

**DANGER**

*DO NOT plug in power cord until the installation is complete and the equipment is ready to be tested. Contact with electrical/live circuit wiring can cause electrical shock, which, if not avoided, will result in SERIOUS INJURY OR DEATH.*

Mobile - Base Installation

The floor base, upright post and casters are pre-assembled. The upright post and arm assembly are pre-wired.

There are 4 casters installed on the base, two casters are equipped with position locking devices. Refer to FIGURE 2.35

The mobile base is equipped with a 6' long power cord. Do not use extension cords.

**CAUTION**

*Do NOT remove the four screws at the top of the upright post that secure the internal wiring mechanism, rotary coupler. Removing the screws will cause the mechanism to slide down inside the post, causing electrical connectivity failure. Refer to FIGURE 2.36*

Mobile - Spring arm Installation

The spring arm attaches to the post. There is an arm stop located at the top of the post that prevents the arm from moving more than 160 degrees, which maintains the stability of the mobile fixture. Refer to FIGURE 2.36

**DANGER**

*PRIOR TO AND DURING INSTALLATION AND MAINTENANCE, ALWAYS ISOLATE AND DISCONNECT all three poles. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.*

**STEP 1:** Lubricate the pivot pin using roller bearing grease and contact surfaces with conductive grease. (e.g. Optimol)

**STEP 2:** Slide the extension arm through the washer and into the post. Refer to FIGURE 2.37
Prelude Exam Light Head Installation - Mobile Mount

**Warning:** Installation and repair of the Prelude LED Exam Light MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN. Contact with electrical/live circuit wiring can cause electrical shock or fire, which, if not avoided, will result in SERIOUS INJURY OR DEATH.

The site specific mount framing for the Prelude LED Exam Light MUST BE DESIGNED AND CERTIFIED BY A QUALIFIED STRUCTURAL ENGINEER. Failure to comply with this requirement could result in structural failure which, if not avoided, will result in SERIOUS INJURY OR DEATH.

The lamp head is inserted and locked in place at the end of the spring arm. There is a rotary pin assembly for electrical connections.

**FIGURE 2.38 - Light Head Sleeve**

STEP 1: Remove the phillips head screw and remove the lock washer. Refer to FIGURE 2.38

STEP 2: Using a flat tip screwdriver insert and push the locking tab outwards to unlock the sleeve. Slide the sleeve up the shaft to expose the retaining tab. Refer to FIGURE 2.39

**Notice:** The sleeve will not move until the tab is completely unlocked.

If there is a head unit attached to the spring arm, maintain control of the arm/head unit during these processes. The head unit can slip out of the coupler when the retaining tab is removed.

STEP 3: Remove the retaining tab from the slot in the spring arm. Refer to FIGURE 2.40

STEP 4: Remove the protective plastic cap on the end of the lamp assembly.

STEP 5: Lubricate the head slip ring using roller bearing grease. (e.g. Optimol)

STEP 6: Insert the light head slip ring attachment into the spring arm receptacle and align the slot with the groove on the light head assembly, insert and hold in place, the retaining tab. Refer to FIGURE 2.40 and 2.41

**FIGURE 2.39 - Unlock Sleeve**

**FIGURE 2.40 - Retaining Tab**

**FIGURE 2.41 - Light Head Installation**
**NOTICE**

*Pull slightly on the light head assembly to ensure it is locked in place by the metal clip. If the light head slides out, repeat step 6.*

**STEP 7:** Slide the sleeve to lock the metal tab in place, listen for click to verify the sleeve is locked. Refer to FIGURE 2.42

**STEP 8:** Secure the sleeve by screwing in the phillips head screw and lock washer. Refer to FIGURE 2.43

**FIGURE 2.42 - Retainer Tab**

**FIGURE 2.43 - Retainer Tab**

**NOTICE**

*Enlist help to hold, maintain control of the spring arm and mobile base when removing the spring arm lock tab.*

**STEP 9:** Remove the screw and spring arm lock tab. Refer to FIGURE 2.44

**STEP 10:** Plug in the mobile unit and check light functionality before proceeding.

**FIGURE 2.44 - Spring arm Transit Lock Tab**
Mobile Mount - Spring arm Spring Tension Adjustment

The spring arm must be adjusted to compensate for the weight of the head unit and due to normal use. The spring arm should be adjusted to hold the head unit device still once located to the desired position. If the spring arm moves down or springs up, adjust the spring arm to the correct spring tension.

Depending on the weight of the head unit the spring arm may lower or raise, not holding its position. Take special care during installation and removal of the head unit from the spring arm, as the spring arm could suddenly move down or up causing injury.

The spring arm is equipped with a tension spring that holds the head unit and arm in place. WHEN INSTALLING OR REMOVING a head unit to the spring arm, MAINTAIN CONTROL OF THE ARM at all times. The spring arm can rotate downward or spring up suddenly which could cause SERIOUS INJURY OR DEATH.

Only adjust the spring arm tension in the upper most position.

Over-tightening the tension wheel can adversely affect the spring and cause irreparable damage to the equipment. Adjust in small increments and test performance.

STEP 1: Flip the cover up, exposing the adjuster tool and tension wheel slots. Remove the adjuster tool. Refer to FIGURE 2.45

STEP 2: Move the spring arm and end device to the upper most position.

STEP 3: Use the adjuster tool to rotate the tension wheel to the left or right, depending on the adjustments needed. Rotate in the direction of the "+" symbol to increase the tension and rotate in the direction of the "-" to decrease the tension.

A: If the spring arm rotates downward, the tension force is set too low. 
   Turn the adjustment wheel in the direction of the "+" symbol a quarter turn, stop, test the tension. Repeat if required.

B: If the spring arm rotates or springs upward, the tension is set too high. 
   Turn the adjustment wheel in the direction of the "-" symbol a quarter turn, stop, test the tension. Repeat if required.

WARNING

CAUTION
Prelude LED Exam Light Use And Care

Operation

**DANGER** *DO NOT plug in power cord until the installation is complete and the equipment is ready to be tested. Contact with electrical/live circuit wiring can cause electrical shock, which, if not avoided, will result in SERIOUS INJURY OR DEATH.*

**WARNING** *Do NOT drape or hang the power cord, avoid tripping hazards.*

Once power is provided to the LED Exam Light, cycle through the light switch positions to become familiar with the light functions.

**LED Exam Light Function Switch**

The Prelude LED Exam Light head is equipped with a three position toggle switch which controls light intensity: Left position = HIGH, center position = OFF, and the right position = LOW. Refer to FIGURE 3.1, FIGURE 3.2, and FIGURE 3.3

![FIGURE 3.1 - High Position](image1)

![FIGURE 3.2 - Off Position](image2)

![FIGURE 3.3 - Low Position](image3)

**Product Care**

**Cleaning Product Surfaces**

**NOTICE** *Routine maintenance will extend the quality and life of the Prelude LED Exam Light and aids in protecting animals from transmittable diseases and infections.*

It is the owner's responsibility to set-up scheduled cleaning programs, depending on use of the equipment. Scheduled preventive cleaning and maintenance steps should include, but not limited to the following procedures:

- Daily or weekly cleaning of products to prolong its longevity and to help maintain finishes.
- Use the mildest cleaning procedure that will complete the job effectively.

**NOTICE** *Steel wool or steel brushes should never be used to clean plastic surfaces, avoid abrasive cleaning supplies.*

*Transport and store 4° to 122° F (-20° to 50° C) and 10-90% relative humidity.*

*Follow best management practices and recognized requirements for hygiene, cleaning, and disinfection.*
Terms And Conditions

Shor-Line's TERMS AND CONDITIONS can be found at shor-line.com

Damaged Freight Procedures

Freight Claim - Contact the technical services department toll-free at 1.800.444.1579
To file a freight claim:
Inspect ALL packages upon arrival. If containers show evidence of damage when delivered, the packages should be opened and inspected before the carrier leaves. The shipment should be inventoried and inspected jointly by the customer and the carrier. The driver will then make proper notation on the delivery receipt.
Customer must inspect all materials for shortages, damages, conformity with the order, and defects before signing any documentation requested by the carrier. Customer must immediately complete such inspection and shall not accept delivery of goods that are damaged or not in accordance with the bill of lading or packing slip without proper notification to the carrier and Shor-Line. If products are damaged, defective, shorted or appear not to conform to the order, Customer shall discontinue their use and immediately notify the carrier and Shor-Line of such condition and afford a reasonable opportunity to inspect the same.
Customer shall make, or provide Shor-Line in writing with all information necessary to make a claim against such carrier for any shortage, damage, or discrepancy of the shipment within fifteen (15) days after receipt of the products. Claims or written information thereon not so presented within fifteen (15) days after receipt of the products will not be allowed. No returned products will be accepted, credited or replaced, unless arrangements for their return have been made in compliance with Shor-Line's Return Policy.
If containers do not show evidence of damage, there may be "concealed damage". Customer must report any concealed damage within 15 days after receipt of the shipment. Such report is to be made directly to Shor-Line's Traffic Department who will file a claim with the carrier. All packaging and contents must be held for this inspection.
STEP 1: Customer must check goods, contents against packing slip, weight against bill of lading, containers, etc.
STEP 2: Customer fills out "Inspection Report of Loss or Damage Discovered After Delivery".
STEP 3: Customer is to sign the report form. A copy is left with the customer and should be forwarded to Shor-Line's traffic department to file a claim.
STEP 4: Call Shor-Line's Traffic Department to file a claim (1.800.444.1579). Shor-Line will arrange pick-up, return shipment, and replacement of the product.

Return Policy & Repairs - All products being returned for any reason or delivered for repair service (whether or not pursuant to the Limited Warranty) must receive advance authorization from Shor-Line. Customer must contact Shor-Line's Technical Service Department at 1.800.444.1579 to receive a Return Authorization Number. All products returned, except for warranty service or pursuant to the Product Satisfaction policy, are subject to a minimum 15% restocking charge. Customer will be responsible for all freight charges on returns.
Return Product Authorization - To assure efficient handling on damaged or defective equipment, or repairs, please contact our Technical Service Department for Return Product Authorization (1.800.444.1579). Failure to obtain Return Product Authorization will only delay processing and may result in the denial of any repair, replacement or credit.
Repairs - It is mandatory to contact Technical Service Department at 1.800.444.1579 prior to sending product for repair.
Limited Warranty

In the event the Customer is not fully satisfied with the quality or workmanship of a product, Shor-Line in its sole discretion may arrange either to credit Customer’s account (excluding shipping and handling costs) or replace the product. However, Customer must notify Shor-Line in writing of its dissatisfaction within fifteen (15) days of receipt of the product from Shor-Line. Customer must also return the rejected product to Shor-Line (freight paid) within thirty (30) days of its receipt in compliance with Shor-Line’s Return Policy (See Section 4). Shor-Line’s obligation is limited to providing the applicable credit or product replacement, which will be processed only after receipt of the returned product. In addition, this Product Satisfaction Policy does not apply to specially designed, discontinued, used, factory second or repaired products.

SHOR-LINE warrants to the initial purchaser only of products manufactured by it that such products are free from defects in materials or labor for varying periods depending on the particular product and subject to the limitations and conditions set forth herein. SHOR-LINE’s stainless steel products are warranted to be free from such defects for their normal useful life. SHOR-LINE’s mechanical and electrical products, parts, devices and components (including such parts, devices and components of stainless steel products), and other non-stainless steel products are warranted to be free from such defects for one year. SHOR-LINE disclaims any express or implied warranty for products not manufactured by SHOR-LINE and the only warranty available therefor to customer is that offered by the products’ manufacturers.

The warranty period shall run from the date of delivery to customer. If within the applicable warranty period a product proves to be defective as described herein, SHOR-LINE will repair or replace the product, at SHOR-LINE’s sole discretion, conditional upon customer’s written notice of the defect within fifteen (15) days after its discovery and compliance with applicable return procedures. Upon receipt of customer’s notice including substantiation of customer’s status as the initial purchaser and details of the defect, SHOR-LINE shall advise customer whether it plans to repair or replace the product. SHOR-LINE’s obligation is solely limited to repair or replacement of a defective product and in no event shall SHOR-LINE be liable for transportation from or to SHOR-LINE’s offices or any other expense which may arise in connection with this limited warranty or the aforementioned product satisfaction policy.

SHOR-LINE makes no other warranty or guarantee of any kind whatsoever, whether expressed or implied, statutory or otherwise including, but not limited to implied warranties of fitness and or merchantability. The above limited warranty constitutes SHOR-LINE’s only warranty and no person or entity is authorized, on behalf of SHOR-LINE, to modify or expand upon the provisions expressed in the limited warranty statement. SHOR-LINE’s liability under this limited warranty shall be limited as provided for above and the foregoing shall be the customers sole remedy and recourse under this contract. There are no warranties, which extend beyond the description on the face hereof and goods are sold as-is. SHOR-LINE’s limited warranty is only available to the initial purchaser of its products.

Customer agrees to comply with all instructions and specifications furnished by SHOR-LINE relating to installation, care and application of products sold. Customer agrees that it will not modify, misapply, or misuse such products in any manner including one that would deviate from the products' intended use. Any repairs, alterations or service provided by parties other than SHOR-LINE, or its authorized representative may void this limited warranty. This limited warranty shall not apply to normal wear and tear, damage caused by accident, negligence, improper operation, or the use of the corrosive material (including without limitation bleach-sodium hypochlorite) on stainless steel surfaces. SHOR-LINE’s limited warranty made in connection with this sale shall not be effective and shall be void unless such goods are applied and used in accordance with SHOR-LINE’s instructions.

Limitation Of Liability

Under no circumstances shall SHOR-LINE be liable to buyer or any other person for any special liquidated, incidental or consequential damages, including, without limitation, damages based upon lost goodwill, lost sales or profits, work stoppage, delay, product failure, impairment of goods or otherwise and whether arising out of breach of warranty, breach of contract, negligence or otherwise, and in any case, SHOR-LINE’s liability for any and all losses and damages sustained by buyer and others, rising out of or by reason of this contract, shall not exceed the original purchase price of the products upon which liability is founded. In no event shall any action be commenced against SHOR-LINE more than one year after the cause of action with respect to which the claim is made has occurred. SHOR-LINE shall not be responsible for expenses for repairs not made by SHOR-LINE without the prior written consent of SHORE-LINE. Product specifications are subject to change without any notice or obligation on the part of SHOR-LINE.
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