

**EXPOSURE
MARINE**



Marine S8 or R8 High-Power Vessel Light

INTRODUCTION

Thank you for purchasing the Exposure Marine S8 or R8 High-Power Vessel Light. This manual will guide you through the installation process for connecting the light to your vessel's electrical system. The light is designed to operate on either a 12V or 24V power supply and comes with positive (+) and negative (-) power leads. The positive lead is red, and the negative lead is black. The operating current is 8.5 amps.

SAFETY PRECAUTIONS

Disconnect Power: Before beginning the installation, ensure that the power supply to the area where you will be working is turned off.

Correct Polarity: Always ensure that the positive (red) and negative (black) connections are made correctly. **Reversing the connections may damage the light.**

Fuse Protection: Install an appropriate fuse in the power line to protect against electrical faults. We recommend using a 10A fuse.

Waterproof Connections: Use marine-grade, waterproof connectors to protect against corrosion and water ingress.

Secure Wiring: Ensure all wiring is securely fastened to prevent movement and wear.

TOOLS AND MATERIALS NEEDED

- Wire stripper/cutter
- Crimping tool
- Heat-shrink tubing or waterproof connectors
- 10A fuse
- Fuse holder
- Electrical tape
- Screwdriver
- Cable ties

STEP-BY-STEP INSTALLATION

Step 1: Plan the Installation

1. **Select a Location:** Choose a location for the light where it will provide optimal illumination. If you are using the light to illuminate in front of the vessel, take care to avoid glare from the light reflecting off the foredeck. *Recommended Positioning: It is best to mount the light high up or directly at the front of the vessel. Avoid placing the light in a position where the beam can directly shine onto the foredeck, as this may cause glare and reduce visibility.*
2. **Check Power Availability:** Verify that you have access to the vessel's 12V or 24V power supply near the installation location.

Step 2: Prepare the Power Leads

1. **Determine Wire Length:** Measure and cut the power leads to the appropriate length to reach the power source.
2. **Strip the Wires:** Using the wire stripper, carefully strip about 1/2 inch (12mm) of insulation from the ends of both the positive (red) and negative (black) power leads.

Step 3: Connect the Positive Lead (+)

1. **Attach Fuse:** Install a fuse holder in line with the positive (red) lead. Use a 10A fuse to protect the circuit. *Note: The fuse should be installed as close to the power source as possible.*
2. **Connect to Power Source:** Attach the positive (red) lead to the positive terminal of the 12V or 24V power source. Use a crimp connector or marine-grade terminal to secure the connection.
3. **Seal the Connection:** If using crimp connectors, cover the connection with heat-shrink tubing or wrap with electrical tape to protect against moisture.

Step 4: Connect the Negative Lead (-)

1. **Connect to Ground:** Attach the negative (black) lead to the negative terminal (ground) of the power source. Ensure that the connection is secure and well-insulated.
2. **Seal the Connection:** Use heat-shrink tubing or electrical tape to protect the connection from water exposure.

Step 5: Mount the Light

1. **Position the Light:** Secure the light in the chosen location using the appropriate mounting hardware (screws, brackets, etc.).
2. **Secure the Wiring:** Use cable ties to secure the power leads along the mounting surface, keeping them out of the way and protected from damage.

Step 6: Test the Installation

1. **Power On:** Restore power to the circuit and switch on the light.
2. **Verify Operation:** Ensure that the light turns on and operates correctly.
3. **Check Connections:** Inspect all connections for any signs of heat or poor connections.

MAINTENANCE

- Regularly check all connections to ensure they are secure and free from corrosion.
- Inspect the light housing and mounting hardware periodically to ensure it remains watertight and securely attached.
- Replace the fuse if it blows, ensuring to use the correct amperage (10A).

TROUBLESHOOTING

- **Light Does Not Turn On:** Check the fuse and power connections to ensure there is power reaching the light.
- **Intermittent Operation:** Inspect all connections for looseness or corrosion. Ensure the fuse is properly seated.
- **Blown Fuse:** If the fuse blows repeatedly, verify the wiring for any shorts or overloads, and ensure the correct fuse (10A) is being used.

SPECIFICATIONS

- Lumens: 9000
- Operating Voltage: 10V or 30V DC
- Operating Current at 12V: 8.5A
- Operating Current at 24V: 3.8A
- Waterproof Rating: IPX7 (Submersible up to 1 meter)
- Power Leads: Positive (+) Red, and Negative (-) Black

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