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ECCO EW4011

ECCO EW4011 LED Work Light Instruction Manual

Model: EW4011

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your ECCO EW4011 Series LED Work Light. The EW4011 is a DOT certified work light designed for commercial vehicles, offering high-intensity illumination with advanced features like a heated lens for snow and ice melting. Please read this manual thoroughly before use and retain it for future reference.



Image 1.1: Two ECCO EW4011 LED Work Lights, showcasing their square design and bright output.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the product or vehicle:

- **Electrical Safety:** Ensure the vehicle's power is disconnected before beginning installation. Incorrect wiring can cause electrical shock, fire, or damage to the light and vehicle's electrical system.
- **Mounting:** Securely mount the light to a stable surface capable of supporting its weight. Loose mounting can lead to the light detaching during vehicle operation, posing a hazard.
- **Voltage:** This product is designed for 12-24 VDC systems. Connecting to an incompatible voltage supply will damage the unit.
- **Heat:** The light housing may become warm during extended operation. Avoid touching the light directly after use.
- **Visibility:** Do not stare directly into the light when it is operating, as it can cause temporary vision impairment.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- ECCO EW4011 LED Work Light(s)
- Instruction Manual (this document)
- Mounting Hardware (bolts, washers, nuts)

4. INSTALLATION INSTRUCTIONS

Professional installation is recommended for optimal performance and safety. Refer to your vehicle's service manual for specific wiring diagrams if necessary.

4.1. Mounting

1. **Select Mounting Location:** The EW4011 offers dual options for bottom and back mounting, as well as multi-directional mounting for the signal light (left/right/top). Choose a location that provides optimal illumination and does not obstruct vehicle operation or other safety equipment.
2. **Secure the Bracket:** Use the provided mounting hardware to securely attach the light bracket to the chosen surface. Ensure all fasteners are tightened to prevent vibration and movement.
3. **Attach the Light:** Mount the EW4011 light assembly to the bracket. Adjust the angle for desired light direction before fully tightening.



EW4011

MULTI-DIRECTIONAL MOUNTING | 12-24 VOLTS | HEATED LENS

Image 4.1: Dimensions of the ECCO EW4011 LED Work Light, showing 5.9" height, 8.5" width, and 3.3" depth.

4.2. Electrical Connection

1. **Disconnect Power:** Before making any electrical connections, ensure the vehicle's battery is disconnected to prevent accidental short circuits.
2. **Identify Wires:** The EW4011 typically has multiple wires for different functions (e.g., positive, negative, high beam, low beam, position light, indicator). Refer to the wiring diagram provided with your specific unit or consult a professional.
3. **Connect Wires:** Connect the light's wires to the appropriate vehicle circuits. Use proper crimp connectors or soldering for secure and weather-resistant connections. Ensure correct polarity.
4. **Insulate Connections:** Insulate all exposed wire connections with heat shrink tubing or electrical tape to prevent short circuits and corrosion.
5. **Reconnect Power:** Once all connections are secure and insulated, reconnect the vehicle's battery and test the light's functions.

5. OPERATING INSTRUCTIONS

The ECCO EW4011 LED Work Light is designed for straightforward operation once properly installed.

5.1. Light Functions

Depending on your wiring configuration, the EW4011 supports the following light functions:

- **High Beam:** Provides maximum illumination (6,170 Kelvin) for clear visibility over long distances.
- **Low Beam:** Offers a focused light pattern (5,920 Kelvin) suitable for closer work or when reduced glare is required.
- **Position Light:** A lower intensity light for vehicle presence indication.
- **Indicator:** A flashing light function for signaling turns or hazards.

5.2. Heated Lens Feature

The EW4011 features a patented heated lens system designed to automatically melt snow and ice, ensuring clear visibility in inclement weather conditions. This system activates as needed, requiring no manual intervention.



Image 5.1: A commercial vehicle equipped with ECCO work lights, demonstrating their application in low-light conditions.

6. MAINTENANCE

The ECCO EW4011 LED Work Light is designed for low maintenance and a long operational life of over 80,000 hours.

- **Cleaning:** Periodically clean the lens with a soft cloth and mild soap and water to remove dirt and debris. Avoid abrasive cleaners or solvents that could damage the lens or housing.
- **Inspection:** Regularly inspect the mounting hardware and electrical connections for tightness and signs of wear or corrosion. Tighten any loose fasteners and repair damaged wiring as needed.
- **Waterproof Rating:** The EW4011 features an IP67 waterproof breather, providing protection against dust and temporary immersion in water. While robust, avoid prolonged submersion or high-pressure washing directly at the breather.

7. TROUBLESHOOTING

If your ECCO EW4011 LED Work Light is not functioning as expected, perform the following basic checks:

- **No Light Output:**
 - Check all electrical connections for proper contact and insulation.

- Verify that the vehicle's power supply to the light is active and within the 12-24 VDC range.
- Inspect fuses or circuit breakers in the vehicle's electrical system.

- **Intermittent Operation:**

- Check for loose wiring connections or damaged insulation.
- Ensure the mounting is secure and not causing stress on the wiring.

- **Heated Lens Not Working:**

- Ensure the ambient temperature is low enough for the system to activate. The heated lens operates automatically based on conditions.
- Verify power supply to the light is stable.

If issues persist after performing these checks, contact ECCO customer support or a qualified technician.

8. SPECIFICATIONS

Feature	Specification
Model	EW4011
Light Source Type	LED
Light Source Wattage	48 Watts
Operating Voltage	12-24 VDC
High Beam Kelvin	6,170 Kelvin
Low Beam Kelvin	5,920 Kelvin
Lumen Output (Low Beam)	905 lm
Lumen Output (High Beam)	2371 lm
Life Expectancy	Over 80,000 hours
Waterproof Rating	IP67
Special Features	Heated Lens, DOT Certified, Shock-resistant mounting
Color	Black
Item Weight	11.62 pounds
Product Dimensions	21.25 x 10.62 x 5 inches
UPC	758379120705

9. WARRANTY AND SUPPORT

9.1. Warranty Information

The ECCO EW4011 LED Work Light comes with a **5-year warranty**, ensuring reliability and peace of mind. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.


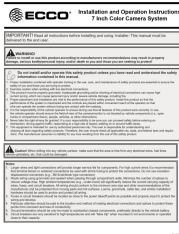


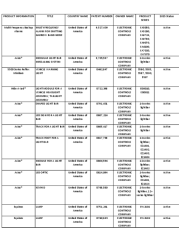
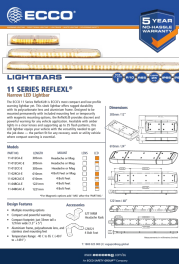


Image 9.1: ECCO EW4011 LED Work Light highlighting its 5-year warranty, IP68 rating, and DOT certification.

9.2. Customer Support

For technical assistance, warranty claims, or further inquiries, please contact ECCO customer support through their official website or the retailer where the product was purchased. Provide your model number (EW4011) and purchase details for efficient service.

Related Documents - EW4011

	<p>ECCO Connect Kit EC101 Installation and Operation Instructions</p> <p>Comprehensive guide for installing and operating the ECCO Connect Kit EC101, detailing safety precautions, product specifications, kit contents, wiring diagrams, flash pattern configurations, and warranty information for ECCO vehicle warning systems.</p>
	<p>ECCO 7 Inch Color Camera System Installation and Operation Manual</p> <p>Comprehensive installation and operation guide for the ECCO 7 Inch Color Camera System, including camera (C2013B) and monitor (M7000B) details, specifications, and warranty information.</p>
	<p>ECCO 12 Series Vantage Lightbars: Installation and Operation Instructions</p> <p>Comprehensive guide for installing and operating ECCO 12 Series Vantage™ Lightbars, covering specifications, mounting, wiring, maintenance, and troubleshooting.</p>
	<p>ECCO 12+ Pro Vantage™ Series Lightbars: Installation and Operation Manual</p> <p>Comprehensive installation and operation guide for ECCO 12+ Pro Vantage™ Series Lightbars. Covers safety, mounting, wiring, maintenance, troubleshooting, and parts. Essential for emergency vehicle lighting systems.</p>
	<p>ECCO Product Catalog and Patent Information</p> <p>A comprehensive list of vehicle lighting and accessory products from Electronic Controls Company (ECCO), detailing product series, patent numbers, and status. Includes information on light bars, beacons, sounders, and more.</p>
	<p>ECCO 11 Series ReflexL® Narrow LED Lightbar - Compact Warning Light</p> <p>Discover the ECCO 11 Series ReflexL® Narrow LED Lightbar. Compact, durable, and versatile warning light with multiple mounting options, 35 flash patterns, and SAE Class 1, R10, R65, IP65/IP69K ratings. Ideal for work and utility vehicles.</p>