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## ECCO 80815

# ECCO 80815 42-LED Directional Light User Manual

Model: 80815

## INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your ECCO 80815 42-LED Directional Light. Please read this manual thoroughly before installation and retain it for future reference. This product is designed for directional lighting applications, featuring 42 amber LEDs and operating at 12 volts.



*Image: The ECCO 80815 42-LED Directional Light, showcasing its amber lens and rectangular form factor.*

## SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of the ECCO 80815 light. Ensure all connections are secure and waterproof where necessary.

### 1. Mounting

- Select a mounting location that provides clear visibility and is free from obstructions.
- Ensure the mounting surface is flat and sturdy enough to support the light securely.
- Use appropriate hardware (not included) to fasten the light firmly. Avoid over-tightening.

### 2. Wiring

- **Disconnect power** from the vehicle or power source before beginning any wiring.
- This light operates on a **12-volt DC** system. Connect the positive wire (typically red) to a switched 12V DC power source.
- Connect the negative wire (typically black) to a suitable ground point.
- Ensure all wire connections are insulated and protected from moisture and abrasion. The light itself is

waterproof, but connections should also be protected.

- Verify correct polarity before applying power to prevent damage.

## OPERATING INSTRUCTIONS

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The ECCO 80815 is designed for straightforward operation once correctly installed.

- **Power On/Off:** The light will activate when power is supplied to its positive wire, typically controlled by an external switch in your vehicle or system.
- **Directional Function:** This light is designed to provide directional warning or signaling. Ensure its placement aligns with the intended direction of visibility.
- **Pattern Selection:** If your specific model includes multiple flash patterns (not explicitly stated for 80815 but common for directional lights), refer to any additional documentation or wiring diagrams provided with the product for pattern selection instructions.

## MAINTENANCE

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Minimal maintenance is required for the ECCO 80815 due to its durable construction and LED technology.

- **Cleaning:** Periodically clean the lens with a soft cloth and mild soap and water. Avoid abrasive cleaners or solvents that could damage the polycarbonate lens.
- **Inspection:** Regularly inspect the mounting hardware and wiring for any signs of wear, corrosion, or looseness. Tighten fasteners as needed.
- **Waterproof Feature:** The unit is designed to be waterproof. However, avoid directing high-pressure water sprays directly at wire entry points or seals.

## TROUBLESHOOTING

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If you encounter issues with your ECCO 80815 light, perform the following basic checks:

### Light Does Not Illuminate

- **Check Power:** Verify that the 12-volt DC power source is active and providing power to the light's positive wire. Use a multimeter if available.
- **Check Ground:** Ensure the negative wire has a solid connection to a good ground point.
- **Check Wiring:** Inspect all wiring for loose connections, cuts, or corrosion. Ensure correct polarity.
- **Check Fuse/Circuit Breaker:** If connected to a fused circuit, check if the fuse is blown or the circuit breaker has tripped.

### Light is Dim or Flickering

- **Voltage Drop:** Ensure the light is receiving adequate voltage (close to 12V DC). A significant voltage drop can cause dimming.
- **Loose Connections:** Re-check all wiring connections for tightness.
- **Ground Connection:** A poor ground connection can also lead to dimming or flickering.

If problems persist after performing these checks, contact ECCO customer support for further assistance.

## SPECIFICATIONS

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| Feature                  | Detail                       |
|--------------------------|------------------------------|
| <b>Brand</b>             | ECCO                         |
| <b>Model Number</b>      | 80815                        |
| <b>Light Source Type</b> | LED (42 LEDs)                |
| <b>Voltage</b>           | 12 Volts DC                  |
| <b>Color</b>             | Amber                        |
| <b>Lens Color</b>        | Amber                        |
| <b>Lens Material</b>     | Polycarbonate                |
| <b>Special Feature</b>   | Waterproof                   |
| <b>Item Weight</b>       | 0.01 ounces (approx.)        |
| <b>Material</b>          | Copper (internal components) |

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