

CO LIGHT J003

CO LIGHT 7 Inch LED Headlights (Model J003) Instruction Manual

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1. PRODUCT OVERVIEW

The CO LIGHT 7 Inch LED Headlights (Model J003) are designed to provide superior illumination and enhanced safety for compatible vehicles. Featuring advanced LED technology, these headlights offer a brighter and more energy-efficient lighting solution compared to traditional halogen or HID systems. The reflector design ensures a focused yet soft beam pattern, reducing glare for oncoming drivers while improving visibility. These headlights are DOT certified and boast an IP68 waterproof rating, ensuring reliable performance in various driving conditions.



Image: CO LIGHT 7 Inch LED Headlights installed on a yellow Jeep Wrangler, highlighting their appearance and fit.

2. KEY FEATURES AND COMPONENTS

These LED headlights incorporate several design elements for optimal performance and durability:

- **Aluminum Housing:** Constructed from durable aluminum for extended lifespan and efficient heat dissipation.
- **Built-in EMC Circuit Board:** Designed to prevent flickering and radio interference, ensuring stable light output.
- **Polycarbonate Lens:** Shatter-resistant and scratch-resistant for enhanced durability and clarity.
- **Integrated Cooling Fan:** Accelerates heat dissipation and aids in fog removal for consistent performance.
- **High Quality DRL:** Provides bright white Daytime Running Lights for increased visibility.
- **DOT / SEA Approved:** Certified for legal and safe use on public roads.
- **Reflective Mirror Technology:** Utilizes the refraction principle of the reflector to produce a more concentrated and effective light beam.



UPGRADE LOOK



FULL SEALED CONSTRUCTION



PLUG AND PLAY OPERATION



FIT PERFECTLY

Image: Exploded view illustrating the internal components of the CO LIGHT 7 Inch LED Headlight, including aluminum housing, circuit board, cooling fan, and polycarbonate lens.



Image: Close-up of the CO LIGHT 7 Inch LED Headlight, highlighting DOT/SEA approval markings, polycarbonate face shield, and reflective mirror technology.

3. PACKAGE CONTENTS

Please verify that all items are present in the package:

- 2 x 7 Inch LED Headlights
- 2 x H4 Extension Cables

4. PRODUCT SPECIFICATIONS

Feature	Specification
Brand	CO LIGHT
Model Number	J003
Light Source Type	LED
Beam Pattern	High Beam / Low Beam / DRL / Yellow Turn Signal
Luminous Flux	HI 6000LM / LO 3000LM
Wattage	60 watts per piece

Feature	Specification
Voltage	12 volts
Color Temperature	6500K
Material	6063 Aviation Aluminum
Waterproof Rating	IP68
Lifespan	Over 50,000 hours
Working Temperature	-40°C to 85°C
Auto Part Position	Front
Included Components	2*headlight, 2*H4 extension cable



Image: Detailed diagram outlining the specifications and physical dimensions of the CO LIGHT 7 Inch LED Headlight.

5. INSTALLATION GUIDE

5.1. Compatibility

These 7-inch round LED headlights are designed for universal compatibility with most vehicles that use 7-inch headlights. Specific compatible models include:

- Jeep CJ-8 Scrambler (1981-1985)
- Jeep Wrangler CJ-7 (1976-1986)
- Jeep Wrangler TJ (1997-2006)
- Jeep Wrangler LJ Unlimited (2004-2006)
- Jeep Wrangler JK 2 Door (2007-2017)
- Jeep Wrangler Unlimited JK 4 Door (2007-2017)
- AM General Hummer (1992-2001)
- Hummer H1 & H2 (2003-2009)
- Defender 90 and 110

Important Note: For some Jeep JK models, the passenger side housing may differ from the driver side. Minor adjustments, such as sanding the passenger side headlight's alignment tabs, may be required. For Jeep Wrangler JL (2018-2020) and Hummer H2, additional brackets or adapters (not included) may be necessary.

NOTICE: NO HOUSING OR BRACKETS INCLUDED!

7 Inch LED Headlight (Applicable But Not Limited To The Following Car Models)

- Compatible with Jeep CJ-8Scrambler 1981-1985
- Compatible with Jeep Wrangler CJ-7 1976-1986
- Compatible with Jeep Wrangler TJ 1997-2006
- Compatible with Jeep Wrangler TJ Unlimited/LJ 2003-2006
- Compatible with Jeep Wrangler LJ 2004-2006
- Compatible with Jeep Wrangler JK 2 Door 2007-2017
- Compatible with Jeep Wrangler Unlimited JK 4 Door 2007-2017
- (Notice for Some Jeep JK: their passenger side housing is different from driver side housing, need to sand the passenger side headlight's alignment tabs)
- Compatible with Jeep Wrangler JL 2018-2020 (Need to buy JL bracket, package not included)
- Compatible with AM General Hummer 1992-2001
- Compatible with Hummer H1&H2 2003-2009 (H2 needs 9007 male to H4 female adapter, package not included)



Image: Visual guide emphasizing the importance of checking headlight bucket size and providing compatibility notes for various vehicle models.

5.2. Installation Steps

Installation is generally plug-and-play for most compatible models. The built-in decoder helps prevent flickering and interference issues.

1. **Remove Existing Headlights:** Carefully remove your vehicle's existing 7-inch headlights according to your vehicle's service manual.
2. **Connect H4 Adapter:** Connect the provided H4 plug adapter cable to the new LED headlight.
3. **Plug into Factory Wiring:** Connect the H4 adapter to your vehicle's factory headlamp wiring harness.
4. **Secure Headlights:** Mount the new LED headlights into the headlight bucket. Ensure a secure fit. If the fit is loose, minor adjustments to the bucket or tabs may be needed (refer to compatibility notes).
5. **Test Functionality:** Before fully reassembling, turn on your vehicle's lights to test the high beam, low beam, DRL, and turn signal functions.
6. **Final Assembly:** Reassemble any removed trim or bezels.

The entire installation process typically takes approximately 20 minutes per headlight.

Your browser does not support the video tag.

Video: An official CO LIGHT video demonstrating the features and potentially the installation process of the 7 Inch LED Headlight.

6. OPERATING INSTRUCTIONS

The CO LIGHT 7 Inch LED Headlights offer multiple lighting functions:

- **Low Beam:** Provides a focused, softer beam for regular driving, designed to prevent blinding oncoming traffic.
- **High Beam:** Delivers maximum light output for enhanced visibility on dark roads.
- **Daytime Running Lights (DRL):** Features a bright white DRL for increased daytime visibility.
- **Amber Turn Signal:** Integrated amber lights function as turn signals.

Switch between low beam, high beam, DRL, and turn signal functions using your vehicle's standard headlight and turn signal controls.

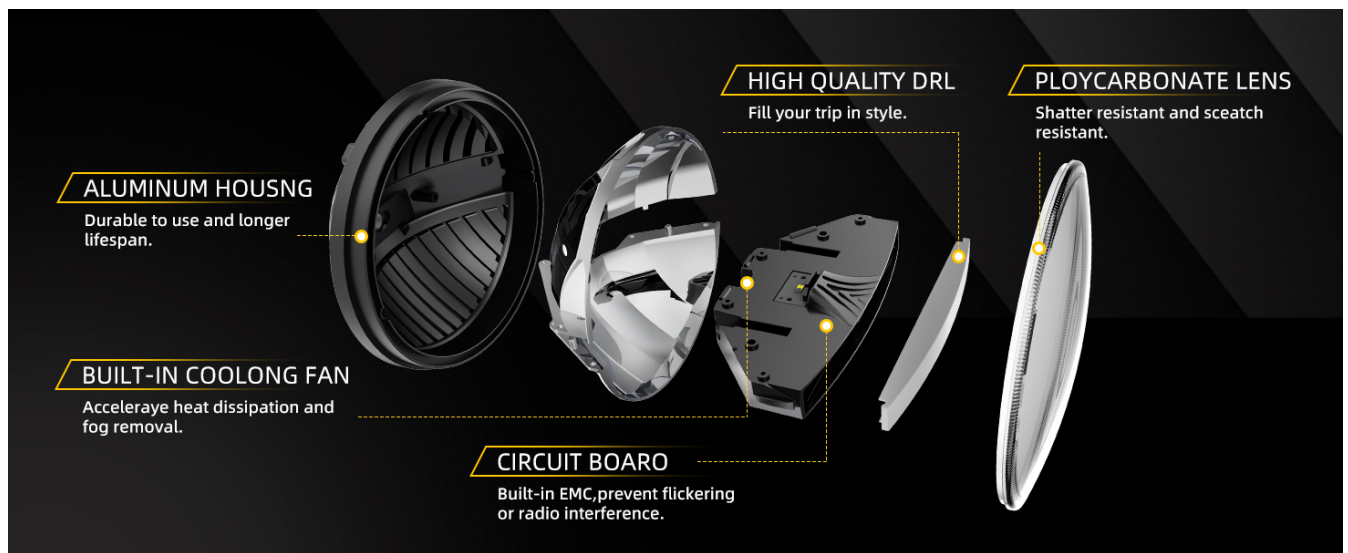


Image: Diagram showcasing the scientific beam pattern of the CO LIGHT LED Headlights, designed to reduce glare for oncoming drivers while providing effective illumination.



Image: Visual comparison demonstrating the superior and brilliant illumination provided by CO LIGHT headlights compared to other standard headlights.

7. MAINTENANCE

To ensure the longevity and optimal performance of your CO LIGHT LED Headlights, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the polycarbonate lens with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that could damage the lens.
- **Durability:** The headlights feature a die-casting aluminum alloy back for excellent heat dissipation and reduced condensation. The IP68 waterproof rating ensures protection against dust and water ingress, allowing them to perform reliably in various weather conditions.
- **Inspection:** Periodically inspect the wiring and connections for any signs of wear or damage.

PLEASE CHECK YOUR BUCKET SIZE SEFORE PURCHASE

- 1 It is plug and play for most cars models.
- 2 There are a few models with slightly different tap positions for the headlight bracket, you may need to make some small adjustments to make the headlights fit. For example, marking and filing 1-2 tab slot into your headlight bucket or grind off the headlights 1-2 tabs.
- 3 Please don't worry, you will get the same level of after-sales service no matter whether you modify the headlight or not.

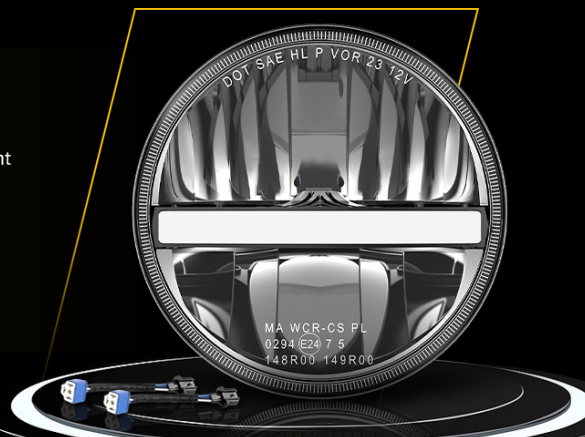


Image: The CO LIGHT 7 Inch LED Headlight submerged in water, illustrating its IP68 waterproof rating and ability to withstand harsh conditions.

8. TROUBLESHOOTING

If you encounter any issues with your CO LIGHT LED Headlights, refer to the following common problems and solutions:

- **Flickering Lights:** If the headlights flicker constantly, it may indicate a compatibility issue with your vehicle's electrical system. The headlights include a built-in decoder to address this, but in some cases, additional decoders may be required. Please contact customer support for assistance.
- **Loose Fit in Headlight Bezel:** If the headlights do not fit snugly in the original bezels, it may be due to slight variations in vehicle models. Refer to the compatibility notes in the installation section. Minor modifications to the headlight bucket or tabs may be necessary to achieve a secure fit.
- **Lights Not Turning On:** Check all wiring connections to ensure they are secure and properly connected. Verify that the vehicle's fuses related to the headlights are intact.

9. WARRANTY AND CUSTOMER SUPPORT

9.1. Warranty Information

The CO LIGHT 7 Inch LED Headlights come with a **Two-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use.

9.2. Customer Support

CO LIGHT is committed to providing exceptional customer support. If you have any questions, require assistance with installation, or encounter any problems with your headlights, please contact our support team. Our team is available to help within 24 hours on weekdays.

For flickering problems that persist despite the built-in decoder, please contact us, and we will provide additional decoders free of charge.

Your satisfaction is our top priority.

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