

## WEELMOTO FDRG-01

# WEELMOTO 2001-2011 Ford Ranger Headlight Assembly Instruction Manual

## INTRODUCTION

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This instruction manual provides detailed guidance for the installation, operation, and maintenance of your WEELMOTO Headlight Assembly for the Ford Ranger. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## SAFETY INFORMATION

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Always disconnect the vehicle's battery before performing any electrical work. Wear appropriate personal protective equipment, such as gloves and eye protection, during installation. If you are unsure about any step, consult a qualified automotive technician.

## COMPATIBILITY

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This headlight assembly is designed for direct replacement on the following vehicle models:

- **Ford Ranger:** 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011

**OEM Equivalent Part Numbers:** 1L5Z15A201AA, 1L5Z15A201BA, 6L5Z13008AA, 6L5Z13008BA



**PERFECT FIT** DOT

*DOT/SAE Compliant | Meet or Exceed OEM Specifications | 100% Performance Testing*

Applicable models:  
2001-2011 Ford Ranger

Image: The WEELMOTO Headlight Assembly seamlessly integrated into a Ford Ranger, demonstrating its precise fit for the specified models.

## PACKAGE CONTENTS

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The WEELMOTO Headlight Assembly package includes:

- 1 x Driver Side Headlight Assembly
- 1 x Passenger Side Headlight Assembly
- Installation Manual (this document)

**Note:** Bulbs are not included. Please use your vehicle's stock HB5 (high/low beam) and 3157A (turn signal) bulbs for installation.

# FRONT DETAILS



Image: A close-up of the headlight assembly, indicating where the high/low beam, turn signal, and amber reflector bulbs are positioned. It also reminds users that bulbs are not included and to use stock HB5 and 3157A bulbs.

## PRODUCT FEATURES

The WEELMOTO Headlight Assembly is engineered to meet or exceed OEM specifications and regulatory standards.

- **DOT/SAE Compliance:** Designed to meet Department of Transportation (DOT) and Society of Automotive Engineers (SAE) standards for optimal performance and safety.
- **Durable Construction:** Manufactured with robust materials, tested against various environmental conditions including drops, vibrations, rain, UV exposure, sand, and dust. This ensures long-lasting performance and resistance to extreme temperatures from -22°F to 140°F.
- **Optimized Lighting:** Features a specialized light pattern for ultra-high brightness, enhancing visibility and driving safety.
- **Integrated Components:** Includes amber reflector and turn signal functionality within the clear lens and chrome housing design.

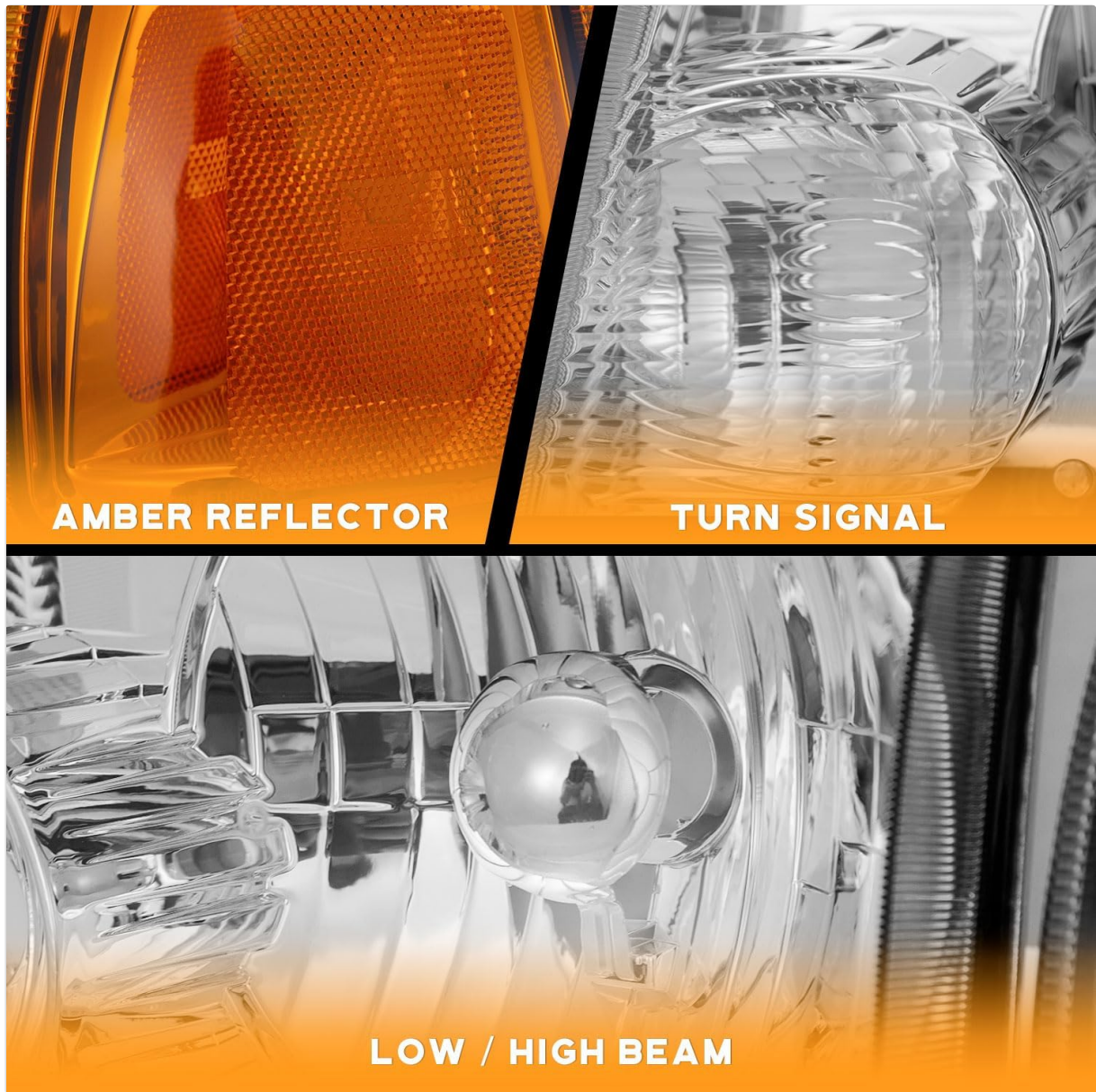


Image: A detailed view showcasing the distinct sections of the headlight assembly, including the amber reflector, turn signal, and the low/high beam area.

# HIGH DURABILITY

- ANTI-HEAT
- ANTI-UV-AGING
- ANTI-FREEZING



**-22°F TO 140°F** EXCEEDING ALL REGULATIONS

Image: Visual representation of the headlight's high durability, indicating its resistance to extreme temperatures, UV radiation, and freezing, ensuring performance in diverse climates.

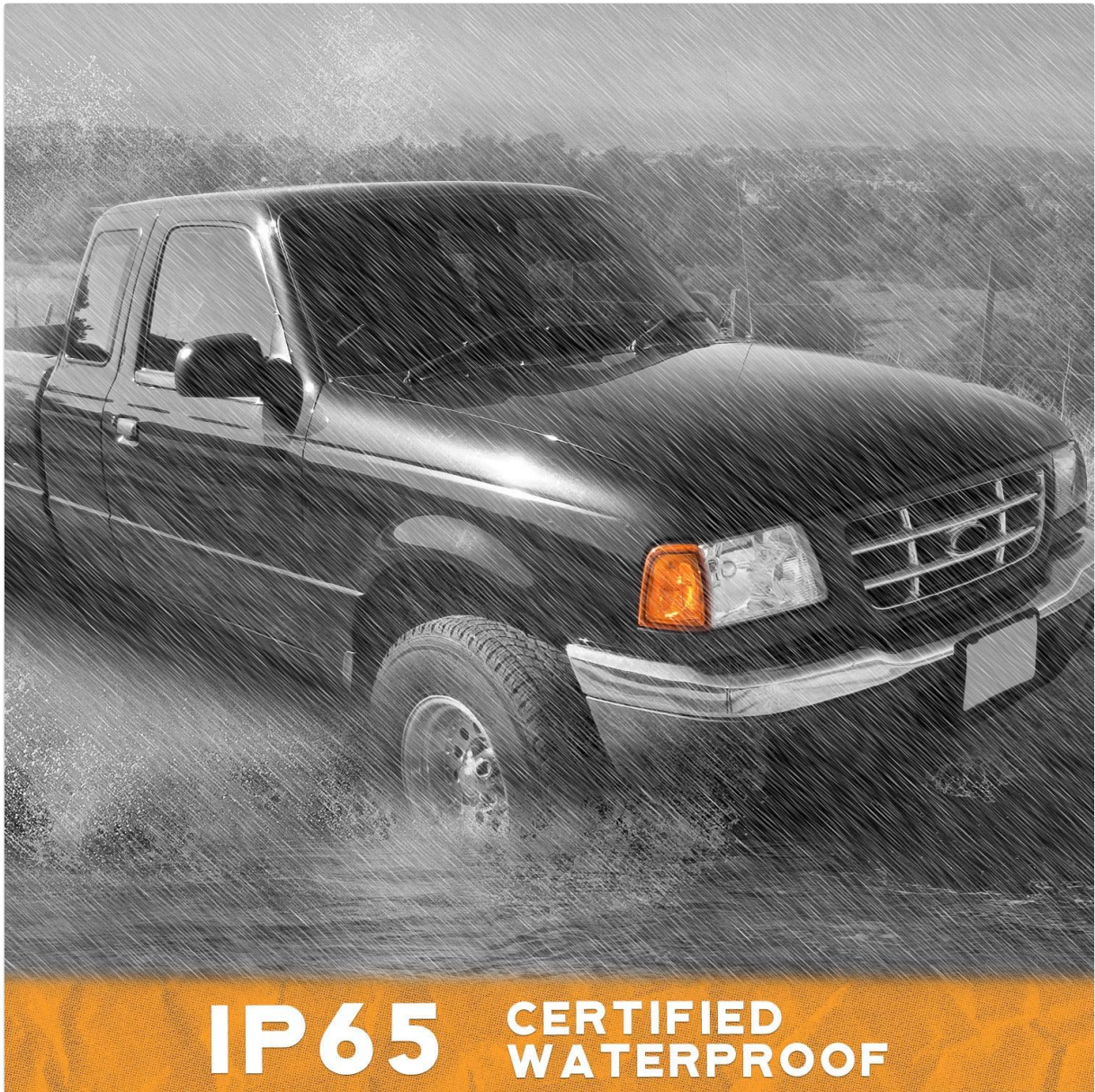


Image: A Ford Ranger navigating through a rainy environment, emphasizing the headlight's IP65 certified waterproof design for reliable operation in wet conditions.



Image: A visual comparison illustrating the enhanced light output and improved visibility provided by the WEELMOTO headlights on a dark road, compared to older, dimmer lights.

## SETUP (INSTALLATION)

The WEELMOTO Headlight Assembly features a plug-and-play design for straightforward installation.

1. **Preparation:** Park your vehicle on a level surface and engage the parking brake. Open the hood.
2. **Disconnect Battery:** Disconnect the negative terminal of your vehicle's battery to prevent electrical shorts.
3. **Remove Old Headlight:** Locate the screws or clips securing the existing headlight assembly. Typically, there are two screws and two slides. Carefully remove these fasteners.
4. **Disconnect Wiring:** Gently pull the old headlight assembly forward. Disconnect the electrical connectors from the bulbs (high/low beam and turn signal).
5. **Transfer Bulbs:** If your new assembly does not come with bulbs, carefully remove the stock HB5 (high/low beam) and 3157A (turn signal) bulbs from your old assembly and install them into the new WEELMOTO assembly. Ensure they are seated correctly.
6. **Connect New Headlight:** Connect the electrical connectors to the corresponding bulbs on the new WEELMOTO headlight assembly.
7. **Install New Headlight:** Slide the new headlight assembly into place, ensuring it aligns with the

mounting points. Secure it with the screws or clips removed earlier.

8. **Adjust Beams:** The headlight assembly includes adjustable beams for vertical adjustment. After installation, it is recommended to perform a headlight alignment to ensure proper beam direction.
9. **Reconnect Battery:** Reconnect the negative terminal of your vehicle's battery.
10. **Test Functionality:** Turn on your vehicle's lights (low beam, high beam, turn signals) to ensure all functions are working correctly.

## PLUG-N-PLAY EASY INSTALL



**ONE-WAY VENT**  
TO PREVENT CONDENSATION



**ADJUSTABLE BEAMS**  
VERTICAL ADJUSTMENT

Image: The back of the headlight assembly, illustrating the plug-n-play design for easy installation, the one-way vent for condensation prevention, and the adjustable beam screws for vertical alignment.

## OPERATING

Once installed, the WEELMOTO Headlight Assembly operates identically to your vehicle's original headlights.

- **Low Beam:** Provides illumination for general driving conditions.
- **High Beam:** Offers increased illumination for driving in dark areas where oncoming traffic is not present.
- **Turn Signal:** Activates when signaling a turn or lane change.

## MAINTENANCE

To ensure the longevity and optimal performance of your WEELMOTO Headlight Assembly:

- **Cleaning:** Clean the headlight lenses regularly with a mild automotive soap and water. Avoid abrasive cleaners or harsh chemicals, as these can damage the polycarbonate lens material.
- **Inspection:** Periodically inspect the headlight assembly for any signs of damage, cracks, or condensation. The assembly features a one-way vent designed to prevent condensation; however, extreme temperature changes can sometimes cause temporary fogging. If persistent condensation occurs, ensure the vent is clear and properly sealed.
- **Bulb Replacement:** If a bulb fails, replace it with a compatible stock HB5 or 3157A bulb as needed.

## TROUBLESHOOTING

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### Issue: Headlights not turning on.

- **Solution:** Check the electrical connections to ensure they are secure. Verify that the bulbs are correctly installed and not burnt out. Check the vehicle's fuses related to the headlights.

### Issue: Dim or flickering lights.

- **Solution:** Inspect bulb connections for corrosion or looseness. Ensure the vehicle's charging system is functioning correctly.

### Issue: Condensation inside the lens.

- **Solution:** Small amounts of temporary condensation can occur due to temperature changes and usually dissipate. Ensure the one-way vent is not blocked. If condensation is persistent or excessive, check for cracks in the housing or improper sealing.

## SPECIFICATIONS

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Feature	Detail
Brand	WEELMOTO
Model Number	FDRG-01
Compatible Vehicle	2001-2011 Ford Ranger
Light Source Type	9007 High/Low Beam
Bulb Type (Recommended)	HB5 (High/Low Beam), 3157A (Turn Signal)
Voltage	12 Volts (DC)
Wattage	60 W
Lens Material	Polycarbonate
Lens Color	Crystal Clear
Housing Color	Chrome
Reflector Type	Amber
Placement on Vehicle	Front Exterior (Left & Right)

Feature	Detail
Special Features	High Beam, Low Beam, Waterproof, Adjustable Beams
OEM Equivalent Part Numbers	1L5Z15A201AA, 1L5Z15A201BA, 6L5Z13008AA, 6L5Z13008BA

## WARRANTY AND SUPPORT

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WEELMOTO provides a 3-year warranty period for this headlight assembly. For any questions, technical assistance, or warranty claims, please contact WEELMOTO customer support through the retailer where the product was purchased. Please have your purchase receipt and product model number (FDRG-01) available when contacting support.