

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [WEELMOTO](#) /

› [Headlights Assembly Instruction Manual for Ford Super Duty F250 F350 F450 F550 \(1999-2004\) and Ford Excursion \(2000-2004\)](#)

WEELMOTO FD250-99

WEELMOTO Headlights Assembly Instruction Manual

Model: FD250-99

For 1999-2004 Ford Super Duty F250 F350 F450 F550 & 2000-2004 Ford Excursion

1. PRODUCT OVERVIEW

The WEELMOTO Headlights Assembly is designed as a direct replacement for your vehicle's original headlights, offering enhanced visibility and a refreshed appearance. This assembly includes high/low beam bulbs (HB5/9007) and features a durable chrome housing with a clear lens and amber reflector.



Image 1.1: WEELMOTO Headlights Assembly with included bulbs.

Key Features:

- **OEM Equivalent:** Direct replacement for OEM# 2C3Z13008AA, 2C3Z13008AB, 2C3Z13200AA, 2C3Z13201AA.
- **DOT & SAE Compliant:** Manufactured to meet Department of Transportation (DOT) and Society of Automotive Engineers (SAE) standards for optimal performance and safety.
- **High Durability:** Constructed with robust materials, tested for resistance against drop, vibration, rain, UV radiation, sand, and dust. Designed to withstand temperatures from -22°F to 140°F.
- **Plug-and-Play Design:** Engineered for easy installation with minimal modifications required.
- **Included Bulbs:** Comes with HB5 (9007) high/low beam bulbs.

2. SAFETY INFORMATION

WARNING: This product can expose you to chemicals which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Always ensure the vehicle is turned off and the battery is disconnected before performing any installation or maintenance on the electrical system.



Image 2.1: Important safety reminder regarding bulb replacement.

Important Note on LED Bulbs:

Do NOT directly replace the included HB5 (9007) halogen bulbs with aftermarket LED bulbs unless specifically designed and certified for this headlight assembly. Using incompatible LED bulbs can lead to improper light patterns, reduced visibility, glare for oncoming drivers, and may not comply with road safety regulations.

3. COMPATIBILITY

This headlight assembly is compatible with the following vehicle models:

- 1999-2004 Ford F-250 Super Duty
- 1999-2004 Ford F-350 Super Duty
- 1999-2004 Ford F-450 Super Duty
- 1999-2004 Ford F-550 Super Duty
- 2000-2004 Ford Excursion

IMPORTANT: This product is NOT FOR SEALED BEAM MODELS. Please verify your vehicle's original headlight type before installation.

Before buying, kindly check your original lights:

YES



For composite headlight models only (99-04 F250 350 450 550, 00-04 Excursion)

NO



NOT FOR SEALED BEAM MODELS

Image 3.1: Visual guide to distinguish between compatible composite headlights and incompatible sealed beam models.

4. WHAT'S INCLUDED

Your package should contain the following items:

- 1 x Headlight and Signal Light Assembly (Driver Left Side)
- 1 x Headlight and Signal Light Assembly (Passenger Right Side)
- 2 x HB5 (9007) High/Low Beam Bulbs (pre-installed or included separately)

5. INSTALLATION

This headlight assembly features a plug-and-play design for straightforward installation. Professional installation is recommended if you are unfamiliar with automotive electrical systems.



Image 5.1: Overview of installation and adjustment procedures.

Installation Steps:

1. **Prepare Vehicle:** Ensure the vehicle is turned off and the parking brake is engaged. Disconnect the negative terminal of the battery for safety.
2. **Remove Grille:** Carefully remove the front grille. Locate and undo any screws, clips, or retainer springs that secure the original headlight in place.
3. **Detach Old Headlight:** Disconnect the wiring harness from the stock headlight and carefully detach the old headlight assembly from the vehicle.
4. **Install New Headlight:** Position the new WEELMOTO headlight assembly into the opening. Ensure it fits securely.
5. **Connect Wiring:** Reconnect the wiring harness to the new assembly. Ensure all connections are secure and properly sealed.
6. **Secure Assembly:** Fasten the new headlight assembly using the original screws, clips, or retainer springs.
7. **Reinstall Grille:** Carefully reattach the front grille.
8. **Reconnect Battery:** Reconnect the negative terminal of the battery.

Adjusting Headlight Beams:

The headlights are pre-adjusted from the factory. However, if the light pattern is unsatisfactory, you can adjust the beam angle manually.

1. **Preparation:** Park your car on a flat surface, approximately 25 feet (7.6 meters) from a flat wall. Mark the center points of each headlight on the wall with tape.
2. **Adjustment:** Block one headlight to focus on adjusting the other. Locate the adjustment screws on top of each bulb. Turn these screws as needed to align the light pattern. The bright spots should be centered in the middle of the 'X' marks on the wall, and the light pattern should be even below the horizontal line.
3. **Caution:** Do NOT adjust the screws more than three times in either clockwise or counter-clockwise direction to avoid damaging the housing.

6. OPERATION

The WEELMOTO Headlights Assembly functions identically to your vehicle's original lighting system. It includes:

- **High Beam:** Provides maximum illumination for clear, open roads.

- **Low Beam:** Standard illumination for general driving, designed to avoid dazzling oncoming traffic.
- **Turn Signal:** Integrated amber reflector and bulb for signaling turns.
- **Parking Light:** Provides illumination when parked or for increased visibility.

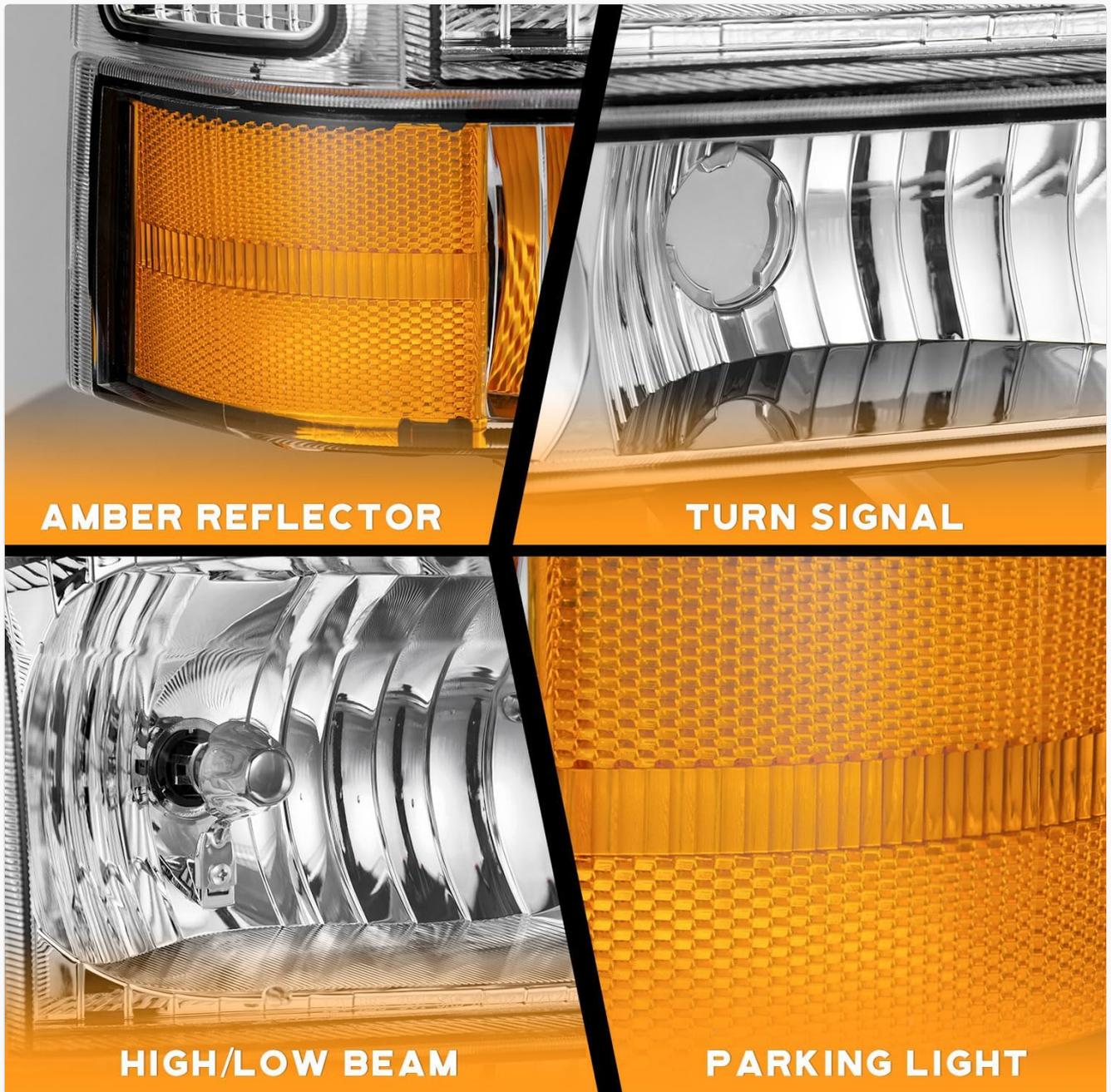
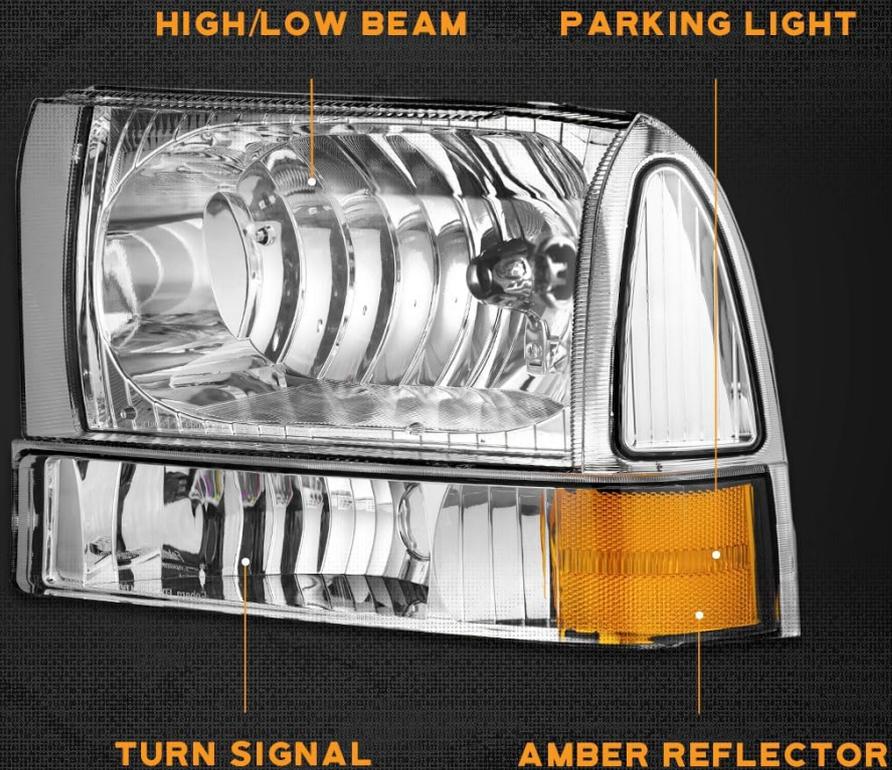


Image 6.1: Detailed view of the headlight's functional components.

FRONT DETAILS



HIGH/LOW BEAM BULBS INCLUDED (9007)



Image 6.2: Illustration of improved light output after installation.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your headlights.

Cleaning:

Clean the headlight lenses regularly with a soft cloth and mild soap and water. Avoid abrasive cleaners or harsh chemicals that can damage the polycarbonate lens or UV coating.

Addressing Condensation:

It is normal for headlight lenses to experience temporary misting or condensation due to temperature differences, air pressure changes, or weather conditions. This does not indicate a defect.

PLUG-N-PLAY EASY INSTALL



Image 7.1: Location of the one-way vent for condensation management.

To drive away temporary condensation:

1. **Check Vents:** Ensure the one-way vents in the housing are not blocked.
2. **Activate Lights:** Turn on the low beam headlights for approximately 20 minutes. The heat generated by the bulbs will help dissipate the moisture.
3. **Inspect Bulbs:** If condensation persists, carefully remove the bulbs and clear any visible mist.
4. **Silica Gel:** For persistent issues, placing a silica gel packet inside the housing (if accessible and secure) can help absorb moisture.



Image 7.2: The headlights are IP65 certified waterproof, designed to resist water ingress.

8. TROUBLESHOOTING

If you encounter issues with your WEELMOTO Headlights Assembly, please refer to the following common solutions:

Lights Not Functioning:

- **Check Connections:** Ensure all wiring harnesses are securely connected to the headlight assembly and the vehicle's electrical system.
- **Inspect Bulbs:** Verify that the HB5 (9007) bulbs are properly seated and not burnt out. Replace if necessary.
- **Check Fuses:** Consult your vehicle's owner's manual to locate and inspect the relevant headlight fuses in the fuse box. Replace any blown fuses.
- **Vehicle Electrical System:** If the issue persists, there may be a problem with your vehicle's electrical system, such as a faulty switch or relay. Professional diagnosis is recommended.

Condensation Inside Lens:

Refer to the [Maintenance section \(7.3\)](#) for detailed steps on how to address temporary condensation.

Improper Light Pattern:

Refer to the [Installation section \(5.3\)](#) for instructions on how to adjust the headlight beams.

9. SPECIFICATIONS

Feature	Specification
Brand	WEELMOTO
Model Number	FD250-99
Color	Clear Lens / Chrome Housing / Amber Reflector
Lens Material	Polycarbonate
Lens Color	Crystal Clear
Bulb Type	HB5 (9007) - High/Low Beam
Wattage	60 watts
Auto Part Position	Front Outside
Item Weight	8.88 pounds
Package Dimensions	23 x 16.5 x 8.75 inches
Certifications	DOT, SAE, IATF16949 (Manufacturer)
Waterproof Rating	IP65 Certified

10. WARRANTY AND SUPPORT

WEELMOTO provides a **3-year peace-of-mind assurance period** for this product.

Customer Support:

For any issues, questions, or concerns regarding your product after receiving it, please contact WEELMOTO directly. You can typically do this by navigating to the product page on the retailer's website, clicking on the 'WEELMOTO' brand name, and then selecting 'Ask a question'. This ensures direct communication and avoids additional charges.

Please have your purchase details and product model number (FD250-99) ready when contacting support.

