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## WEELMOTO CVAL-02

# WEELMOTO Headlight Assembly Instruction Manual

For 2002-2006 Chevrolet Avalanche 1500/2500 (Body Cladding Models)



## 1. PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of your new WEELMOTO headlight assemblies. These headlights are designed as a direct OE replacement for 2002-2006 Chevrolet Avalanche 1500 and 2500 models, specifically those equipped with body cladding.



Image 1.1: A pair of WEELMOTO headlight assemblies, featuring clear lenses, chrome housing, and amber reflectors.

## Compatibility

These headlight assemblies are specifically designed for:

- 2002-2006 Chevrolet Avalanche 1500
- 2002-2006 Chevrolet Avalanche 2500

**Important:** These headlights are compatible **only** with models that have body cladding. Please verify your vehicle's configuration before installation.

## PRODUCT WILL FIT:

### BODY CLADDING MODELS ONLY



FITS BODY CLADDING  
MODELS ONLY



WILL NOT FIT NON-BODY  
CLADDING MODELS

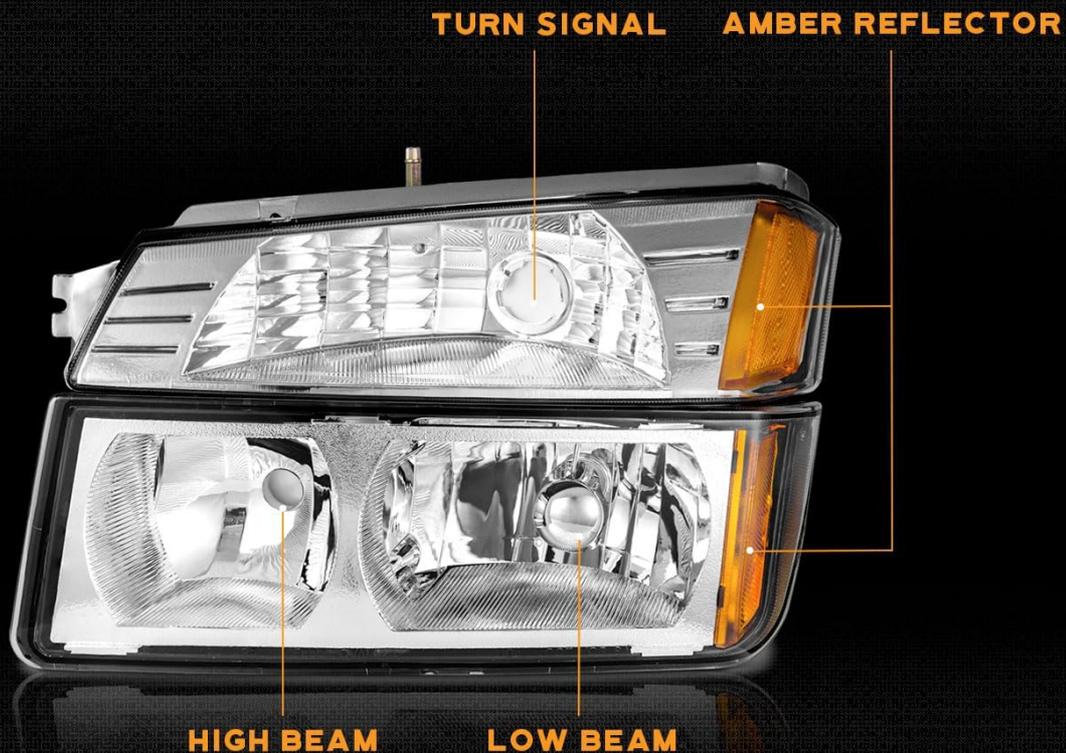


Image 1.2: Visual guide illustrating the difference between body cladding and non-body cladding models, confirming compatibility.

## 2. SETUP AND INSTALLATION

The WEELMOTO headlight assemblies feature a plug-and-play design for straightforward installation. Bulbs are not included; please use your vehicle's stock HB3 (high beam) and HB4 (low beam) bulbs.

# FRONT DETAILS



- Bulbs are not included
- Please use stock bulbs (HB3&HB4)

Image 2.1: Detailed view of the headlight assembly, highlighting bulb locations for high beam, low beam, turn signal, and amber reflector.

## Installation Steps

1. **Prepare Vehicle:** Park your vehicle on a level surface and engage the parking brake. Ensure the engine is off and cool.
2. **Remove Grille:** Carefully remove the front grille. Locate and undo any screws, clips, or retainer springs that secure the grille.
3. **Access Headlights:** Remove any fasteners (screws, clips, or retainer springs) typically located at the top and bottom of the existing headlight assembly.
4. **Disconnect Wiring:** Disconnect the electrical wiring harness from the stock headlight assembly.
5. **Remove Old Headlight:** Detach and remove the old headlight assembly from the vehicle.
6. **Install New Headlight:** Position the new WEELMOTO headlight assembly into place. Ensure it fits securely.
7. **Reconnect Wiring:** Reconnect the electrical wiring harness to the new assembly. Ensure all connections are secure and properly sealed.
8. **Secure Headlight:** Reinstall all screws, clips, or retainer springs to firmly hold the new headlight assembly.

9. **Reinstall Grille:** Carefully put the grille back into its original position and secure it with its fasteners.

# PLUG-N-PLAY EASY INSTALL



**ADJUSTABLE BEAMS**  
VERTICAL ADJUSTMENT

Image 2.2: Diagram illustrating the plug-and-play installation process and the location of vertical beam adjustment points.

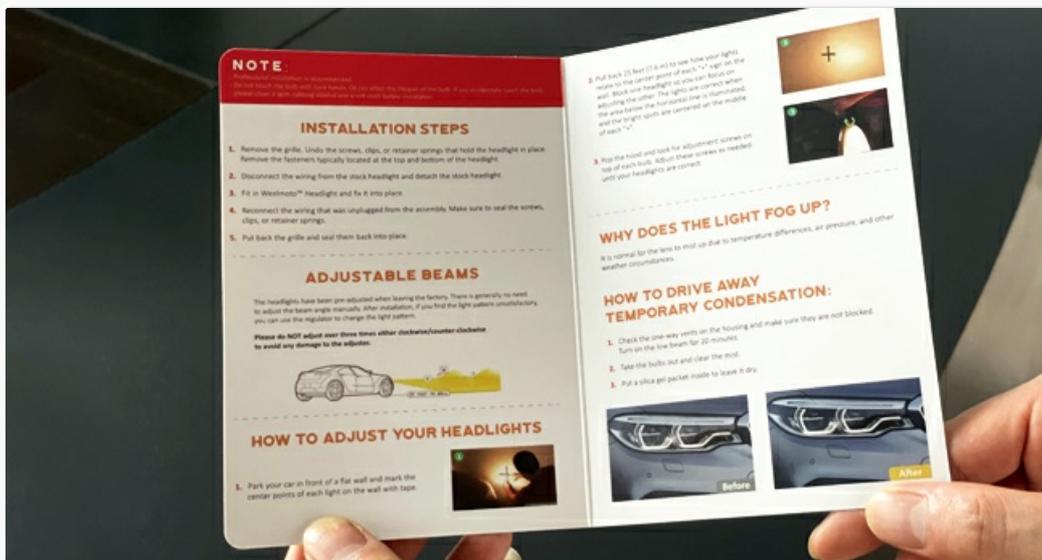


Image 2.3: A visual representation of the installation and adjustment instructions.

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## 3. OPERATING INSTRUCTIONS

### Beam Adjustment

Your WEELMOTO headlights are pre-adjusted at the factory for optimal performance. Manual adjustment is generally not required. However, if you observe an unsatisfactory light pattern, you can adjust the beam angle using the integrated regulators.

#### How to Adjust Your Headlights:

1. **Prepare for Adjustment:** Park your vehicle on a level surface approximately 25 feet (7.6 meters) in front of a flat wall.
2. **Mark Reference Points:** Mark the center points of each headlight on the wall with tape.
3. **Isolate Headlights:** Block one headlight to focus on adjusting the other.
4. **Adjust Beam:** Locate the adjustment screws on top of each bulb. Use a suitable tool to turn these screws as needed. The light pattern should be below the horizontal line and the brightest spots should be centered on the 'X' marks you made.
5. **Repeat for Other Headlight:** Repeat the process for the other headlight.

*Note: Do not over-adjust (more than three times clockwise/counter-clockwise) to avoid damage to the adjusters.*



Image 3.1: Before and after comparison demonstrating the improved light pattern and visibility with WEELMOTO headlights.

## 4. MAINTENANCE

WEELMOTO headlights are constructed with high-durability materials designed for a long lifespan and resistance to various environmental factors.

### Durability Features:

- **Anti-Heat:** Designed to withstand high temperatures.
- **Anti-UV Aging:** UV coating prevents yellowing and hazing over time.
- **Anti-Freezing:** Engineered to perform in cold conditions.
- **Waterproof:** IP65 certified for resistance against water and dust ingress.

# HIGH DURABILITY

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



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

Image 4.1: Visual representation of the headlight's resistance to extreme temperatures and UV exposure.



Image 4.2: A vehicle demonstrating the IP65 certified waterproof capability of the headlights in wet conditions.

## 5. TROUBLESHOOTING

### Temporary Condensation / Fogging

It is normal for headlight lenses to experience temporary misting or fogging due to differences in temperature, air pressure, or other weather conditions. This is typically not a defect.

#### To Address Temporary Condensation:

1. **Check Vents:** Ensure the two-way vents in the headlight housing are clear and not blocked.
2. **Activate Low Beams:** Turn on your vehicle's low beams for approximately 20 minutes. The heat generated by the bulbs can help dissipate moisture.
3. **Manual Clearing (if persistent):** If fogging persists, carefully remove the bulbs and clear any visible mist from the inside of the lens.
4. **Desiccant Use:** Place a silica gel packet inside the housing (if space allows and it does not interfere with bulb

function) to absorb moisture.

## Installation Issues

- **Pre-Installation Inspection:** Before beginning installation, thoroughly inspect both headlight assemblies for any manufacturing defects, such as undrilled holes for lock pins or loose internal components. Address any issues with customer support before proceeding.
- **Fitment:** Ensure all mounting points align correctly. Do not force the assembly into place.

## Safety Reminder: LED Bulbs

It is generally not recommended to directly replace standard halogen bulbs with LED bulbs in headlight assemblies designed for halogen. This can lead to improper light patterns, reduced visibility, and may not comply with safety standards.



Image 5.1: A digital reminder emphasizing the importance of not directly replacing original bulbs with LED alternatives without proper compatibility verification.

## 6. SPECIFICATIONS

Feature	Detail
Brand	WEELMOTO
Model Number	CVAL-02
Color	Clear Lens, Chrome Housing, Amber Reflector
Specific Uses	Head Lights
Vehicle Service Type	2002-2006 Chevy Avalanche 1500 2500 (Body Cladding Models Only)
Special Features	High Beam, Low Beam, Waterproof, UV Coating
Wattage	60 watts
Auto Part Position	Front Outside
Lens Color	Crystal Clear

Lens Material	Polycarbonate
Assembly Required	No (referring to the headlight unit itself)
Automotive Fit Type	Vehicle Specific Fit
OEM Part Numbers	15136536, 15136537
ABPA Partslink Numbers	GM2502219, GM2503219
Item Weight	9.73 pounds
Package Dimensions	18.25 x 16.25 x 7.75 inches
What's in the Box	1 Pair Headlights Assembly (Left Driver + Right Passenger Side)

## 7. WARRANTY AND SUPPORT

### Warranty Information

WEELMOTO provides a **3-year assurance period** for this product, ensuring peace of mind regarding its quality and performance.

### Customer Support

We offer dedicated 1-to-1 customer service. If you encounter any issues or have questions about your product after receiving it, please contact WEELMOTO customer support directly. This ensures you receive prompt assistance and helps avoid additional charges.