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## WEELMOTO DGPU0900

# WEELMOTO Headlight Assembly User Manual

Model: **DGPU0900**

For 2009-2012 Dodge Ram 1500 / 2010-2012 Dodge Ram 2500 3500 (Dual Beam Models)

## 1. PRODUCT OVERVIEW

This manual provides instructions for the installation, operation, and maintenance of your new WEELMOTO Headlight Assembly. This product is designed as a direct replacement for specific Dodge Ram models, ensuring a precise fit and optimal lighting performance.



*Image 1.1: A pair of WEELMOTO Headlight Assemblies, featuring chrome housing and amber reflectors.*

## 2. VEHICLE COMPATIBILITY

This headlight assembly is compatible with the following vehicle models:

- 2009-2012 Dodge Ram 1500
- 2010-2012 Dodge Ram 2500
- 2010-2012 Dodge Ram 3500

### **Important Compatibility Notes:**

- **Does NOT fit Quad Beam Headlight Models.**
- Only fits Classic body styles for 2019 models.
- Will NOT fit 2010-up Ram with factory projector LED style headlights.

Please verify your vehicle's existing headlight configuration before installation. This product is designed for vehicles with a single bulb hole for both high and low beams (Dual Beam style).

Before buying, kindly check your original lights:

**YES**

**ONE bulb hole**



**horizontal**



**Same Year,  
Two Different Types!**

**Fits factory light with only  
ONE hole for high/low beams**

**NO**

**2 bulbs**

**vertical**



**TWO bulb holes**



**Does NOT fit factory light  
with two holes for high & low beams**

Image 2.1: Visual guide for headlight compatibility, distinguishing between single (compatible) and dual (incompatible) bulb hole configurations.



Credit to WEELMOTO™ Technical Center

Image 2.2: Further illustration of compatible (single bulb hole for high/low beam) and incompatible (two separate

### 3. PACKAGE CONTENTS

Upon opening the package, you should find the following items:

- 1 Pair of Headlight Assemblies (Left Driver Side + Right Passenger Side)
- Installation Manual (integrated into this document)

**Note: Bulbs are not included. Please use your vehicle's stock bulbs (H13 & 3157A) for installation.**



Image 3.1: Front details of the headlight assembly, indicating bulb types (H13 & 3157A) are not included.

### 4. INSTALLATION INSTRUCTIONS

The WEELMOTO Headlight Assembly features a plug-and-play design for straightforward installation. Professional installation is recommended, but the following steps outline the general process:

1. **Preparation:** Ensure the vehicle is turned off and the parking brake is engaged. Open the hood.
2. **Remove Grille:** Remove the grille. Locate and remove the screws, clips, or retainer springs that hold the headlight in place. Remove the fasteners typically located at the top and bottom of the headlight.
3. **Disconnect Wiring:** Disconnect the wiring from the stock headlight and detach the stock headlight assembly.
4. **Install New Headlight:** Fit the WEELMOTO headlight assembly into place.
5. **Reconnect Wiring:** Reconnect the wiring that was unplugged from the assembly. Make sure to seal the screws, clips, or retainer springs securely.
6. **Final Step:** Put back the grille and seal them back into place.

## PLUG-N-PLAY EASY INSTALL

Fits *Dual Beam* Style Headlights



HIGH / LOW BEAM



**ADJUSTABLE BEAMS**  
VERTICAL ADJUSTMENT



**ONE-WAY VENT**  
TO PREVENT CONDENSATION

Image 4.1: "Plug-N-Play" installation diagram highlighting the high/low beam bulb socket, adjustable beams, and one-way vent.

# FOR 2009–2012 DODGE RAM

## THERE ARE 2 TYPES



Fits this type:  
Headlight assembly with only  
ONE hole for high beam and  
low beam



Does NOT fit this type:  
Headlight assembly with TWO  
holes for both high beam and  
low beam



Image 4.2: Excerpt from the installation manual detailing steps and addressing condensation.

## 5. OPERATING INSTRUCTIONS

The headlight assembly provides both high and low beam functions, along with an amber turn signal. Operation is controlled via your vehicle's standard headlight switch and turn signal stalk.

- **Low Beam:** Provides standard illumination for general driving conditions.
- **High Beam:** Provides increased illumination for enhanced visibility when needed.
- **Turn Signal:** The amber reflector functions as the turn signal indicator.



*Image 5.1: Detailed view of the headlight's turn signal and high/low beam components.*

## 6. HEADLIGHT BEAM ADJUSTMENT

The headlights have been pre-adjusted when leaving the factory. However, minor adjustments may be necessary after installation to ensure proper light pattern and alignment. This assembly features vertical adjustment capabilities.

### How to Adjust Your Headlights:

1. Park your car in front of a flat wall, approximately 25 feet (7.6 meters) away.
2. Mark the center points of each light on the wall with tape.
3. Turn on your low beams. The top of the most intense part of the light beam should be at or slightly below the marked line.
4. Locate the adjustment screws on top of each bulb. Adjust these screws as needed to achieve the correct vertical alignment.

**Caution: Do NOT adjust over three times either clockwise/counter-clockwise to avoid any damage to the**

adjuster mechanism.



Image 6.1: Illustration of optimal low and high beam light patterns and characteristics.

## 7. MAINTENANCE AND CARE

### Preventing Temporary Condensation:

It is normal for the lens to fog up due to temperature differences, air pressure, and other weather conditions. This is temporary and does not indicate a defect.

To help drive away temporary condensation:

- Check the one-way vents in the housing and make sure they are not blocked.
- Turn on the low beam for 20 minutes.
- Take the bulbs out and clear the moisture.
- Put a silica gel packet inside to leave it dry.

The headlight assembly is IP65 certified waterproof, providing protection against dust and water ingress.



**IP65** CERTIFIED  
WATERPROOF

*Image 7.1: The headlight assembly is IP65 certified waterproof, ensuring durability in various weather conditions.*

## 8. TROUBLESHOOTING

### Why Does the Light Fog Up?

As mentioned in the maintenance section, temporary fogging or condensation inside the headlight lens is a normal phenomenon caused by temperature and humidity fluctuations. It does not affect the performance or lifespan of the headlight.

If condensation persists or appears excessive, ensure the one-way vents are clear and follow the steps outlined in Section 7 to address it.

## 9. SPECIFICATIONS

Feature	Detail
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<b>Brand</b>	WEELMOTO
<b>Model</b>	DGPU0900
<b>OEM Part Number</b>	55277409AD, 55277409AF
<b>ABPA Partslink Number</b>	CH2502217, CH2503217
<b>Color</b>	Chrome Housing, Amber Reflector
<b>Specific Uses</b>	Head Lights
<b>Special Features</b>	High Beam, Low Beam, Waterproof
<b>Wattage</b>	60 watts
<b>Auto Part Position</b>	Front Outside
<b>Lens Color</b>	Crystal Clear
<b>Lens Material</b>	Polycarbonate
<b>Exterior Finish</b>	UV Coating
<b>Item Weight</b>	13.11 pounds
<b>Package Dimensions</b>	23.23 x 18.7 x 11.81 inches
<b>Certifications</b>	DOT (Department of Transportation), SAE (Society of Automotive Engineers), IATF16949 (Manufacturer)
<b>Durability</b>	Anti-heat, Anti-UV-aging, Anti-freezing (-22°F to 140°F), IP65 Waterproof

# HIGH DURABILITY

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



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

*Image 9.1: Illustration of the headlight's high durability across extreme temperatures and conditions.*



# PERFECT FIT

VOR DOT SAE HRA217PP3

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

### Applicable models:

2009-2018 Dodge Ram 1500 models only

2010-2018 Dodge Ram 2500/3500 models only

(Only fit Classic body styles for 2019 models)

(Will not fit 2010-up Ram with factory projector LED style headlights)

(Does NOT Fit Quad Beam Headlight Models)



*Image 9.2: The headlight assembly installed on a Dodge Ram, emphasizing perfect fit and compliance with DOT/SAE standards.*

## 10. QUALITY AND PERFORMANCE

WEELMOTO headlights are engineered for optimal performance and longevity. They meet DOT (Department of Transportation) and SAE (Society of Automotive Engineers) standards, ensuring legal compliance and safety.

- **Rigorous Testing:** Products undergo drop, vibration, rain, ultraviolet radiation, sand, and dust spray tests to ensure high durability and a long lifespan.
- **Optical Excellence:** The design team utilizes professional equipment to create an expert light pattern, meeting SAE standards for ultra-bright optical quality.



Image 10.1: Visual comparison demonstrating the high-level performance and improved optical quality of the WEELMOTO headlights.



Image 10.2: SAE Light Pattern Distribution Chart, illustrating the engineered light spread for optimal visibility.

## 11. WARRANTY AND SUPPORT

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

For any issues or questions regarding your product after receiving it, please contact WEELMOTO customer support directly. You can typically do this by clicking on "WEELMOTO" (the seller name) on the product page and then selecting "Ask a question" to avoid additional charges and ensure direct assistance.

For more information about WEELMOTO products and support, visit the official [WEELMOTO Store](#).

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This manual is for informational purposes only. Specifications are subject to change without notice.