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› WEELMOTO Headlight Assembly Instruction Manual for 2007-2012 Dodge Caliber

WEELMOTO DGCL0700-FBM-1

WEELMOTO Headlight Assembly Instruction Manual

For 2007-2012 Dodge Caliber (Model: DGCL0700-FBM-1)

1. INTRODUCTION

Thank you for choosing WEELMOTO Headlight Assemblies. This manual provides essential information for the proper installation, operation, and maintenance of your new headlights. Please read these instructions carefully before proceeding with installation or use to ensure optimal performance and safety.

These headlight assemblies are designed as a direct replacement for the 2007-2012 Dodge Caliber, meeting DOT (Department of Transportation) and SAE (Society of Automotive Engineers) standards. They are manufactured under an IATF16949 certified quality system, ensuring high quality and durability.

2. PRODUCT OVERVIEW

The WEELMOTO Headlight Assembly provides clear and effective illumination for your vehicle. Each assembly includes a high/low beam light, turn signal, and amber reflector, with all necessary H13 bulbs pre-installed for convenience.



PERFECT FIT

LH DOT VOR

DOT/SAE Compliant

Meet or Exceed OEM Specifications

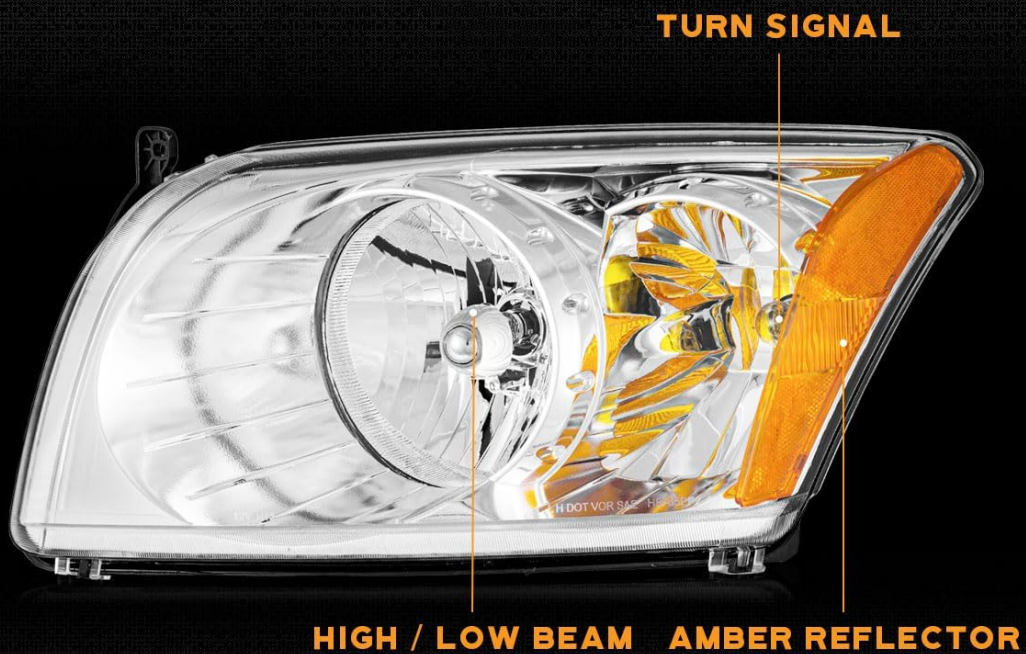
100% Performance Testing

Applicable models:
2007-2012 Dodge Caliber



Image: WEELMOTO Headlight Assembly shown installed on a 2007-2012 Dodge Caliber, demonstrating perfect fit and compliance with DOT/SAE standards.

FRONT DETAILS



· ALL BULBS ARE INCLUDED

Image: Detailed view of the headlight front, highlighting the turn signal, high/low beam, and amber reflector. All bulbs are included.



IP65 CERTIFIED WATERPROOF

Image: A vehicle with WEELMOTO headlights in a simulated rain environment, illustrating the IP65 certified waterproof design.

3. SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work to prevent injury or damage.
- Wear appropriate safety gear, including gloves and eye protection, during installation.
- Ensure all connections are secure and properly sealed to prevent moisture intrusion.
- Do not touch the bulb glass with bare hands. Oils from your skin can create hot spots and reduce bulb lifespan. If touched, clean with rubbing alcohol.
- **Important Safety Reminder:** Do NOT directly replace the included halogen bulbs with LED bulbs unless the headlight assembly is specifically designed for LED conversion. Using incompatible LED bulbs can result in improper light patterns, reduced visibility, and may not comply with road safety regulations.



Image: A laptop screen displaying a safety reminder: "Do NOT Directly Replace with LED Bulbs" in a vehicle engine bay setting.

4. PACKAGE CONTENTS

Your WEELMOTO Headlight Assembly package includes:

- 1x Driver Side Headlight Assembly
- 1x Passenger Side Headlight Assembly
- 2x H13 Halogen Bulbs (pre-installed)

5. SETUP (INSTALLATION)

The WEELMOTO Headlight Assemblies feature a plug-and-play design for straightforward installation. Professional installation is recommended if you are unfamiliar with automotive electrical systems.

Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a level surface, engage the parking brake, and turn off the engine. Disconnect the negative terminal of the vehicle's battery.
2. **Access Headlight:** Remove the grille. Locate and remove any screws, clips, or retainer springs holding the headlight in place. Remove fasteners typically located at the top and bottom of the headlight assembly.
3. **Disconnect Wiring:** Carefully disconnect the wiring harness from the stock headlight and detach the stock headlight assembly from the vehicle.
4. **Install New Headlight:** Position the new WEELMOTO headlight assembly into the opening. Ensure it fits correctly.
5. **Reconnect Wiring:** Connect the wiring harness to the new headlight assembly. Make sure to seal the screws, clips, or retainer springs securely.
6. **Secure Headlight:** Reinstall any removed screws, clips, or retainer springs to firmly secure the new headlight assembly.
7. **Reinstall Grille:** Put back the grille and secure it in place.
8. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.



Image: A printed instruction manual detailing installation steps and headlight adjustment procedures.

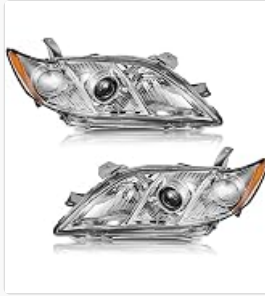


Image: An exploded view of a headlight assembly, illustrating its various components and construction.

6. OPERATING INSTRUCTIONS

Adjusting Headlight Beams:

The headlights are pre-adjusted from the factory. However, minor adjustments may be necessary after installation to achieve the optimal beam angle for your vehicle and local regulations. If you find the light pattern unsatisfactory, use the regulator to change the light pattern.

- **Locate Adjustment Screws:** Identify the adjustment screws on the back of the headlight assembly. These typically control vertical and horizontal alignment.
- **Vertical Adjustment:** Turn the appropriate screw to adjust the beam vertically.
- **Horizontal Adjustment:** Turn the appropriate screw to adjust the beam horizontally.
- **Important:** Do not over-adjust more than three times either clockwise or counter-clockwise to avoid damage to the adjuster mechanism.

PLUG-N-PLAY

EASY INSTALL



ONE-WAY VENT
TO PREVENT CONDENSATION



ADJUSTABLE BEAMS
VERTICAL ADJUSTMENT

Image: Rear view of the headlight assembly, indicating the one-way vent for condensation prevention and the location of the vertical beam adjustment mechanism.



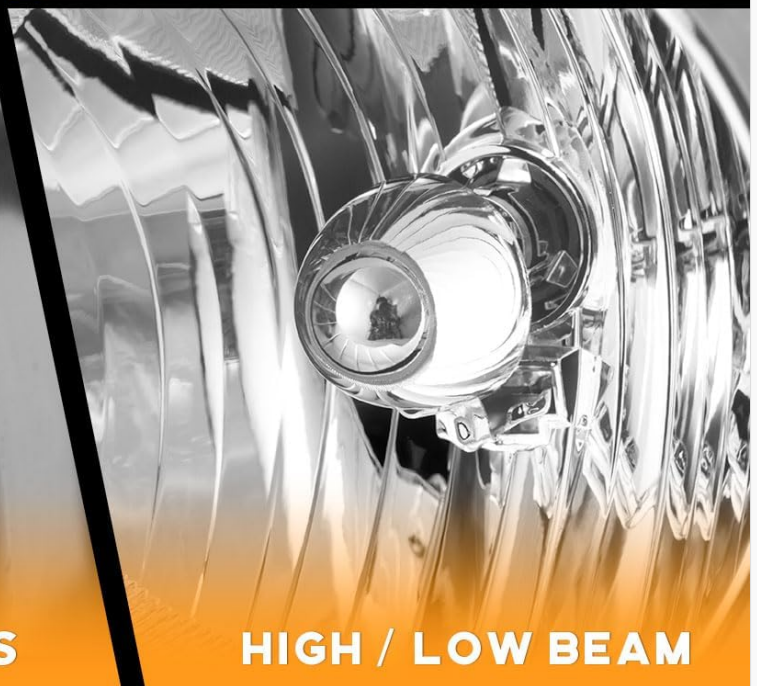
TURN SIGNAL



SAFETY REFLECTOR

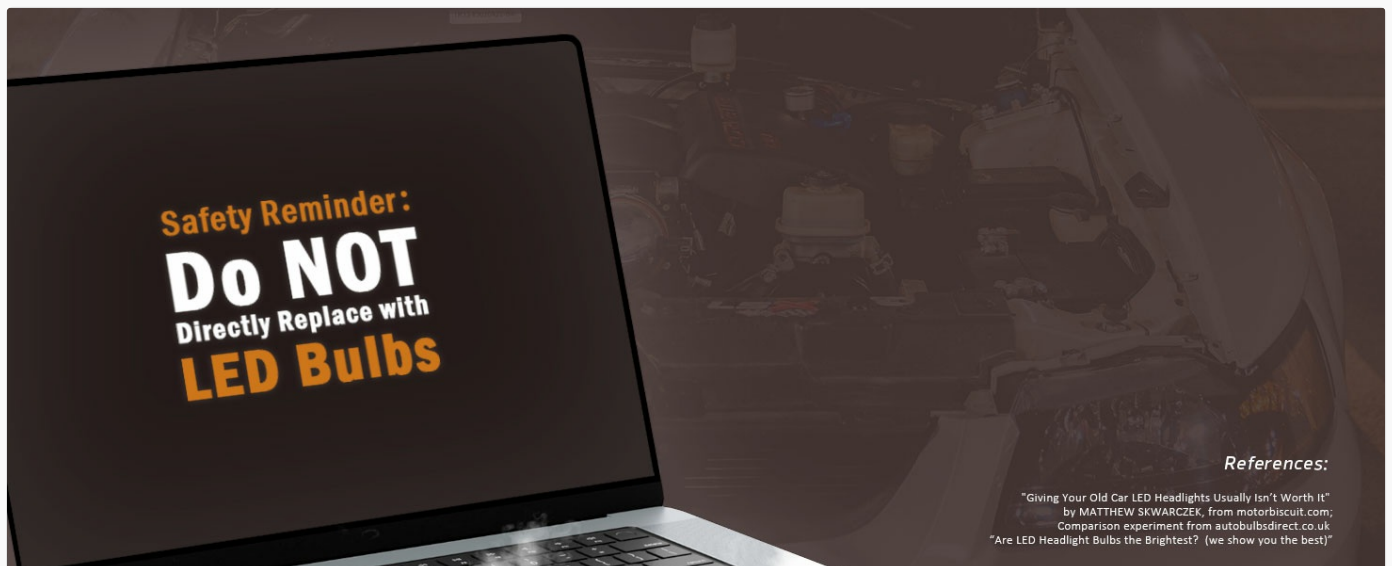


ADJUSTABLE BEAMS



HIGH / LOW BEAM

Image: Close-up views of various headlight components, including the adjustable beam mechanism, turn signal, safety reflector, and high/low beam bulb.



Safety Reminder:
Do NOT
Directly Replace with
LED Bulbs

References:

"Giving Your Old Car LED Headlights Usually Isn't Worth It"
by MATTHEW SKWARCZEK from motorbiscuit.com,
Comparison experiment from autobulbsdirect.co.uk
"Are LED Headlight Bulbs the Brightest? (we show you the best)"

Image: A light pattern distribution chart (SAE), illustrating the optimal light spread for safe driving.



Image: Diagrams illustrating the characteristics of low beam (uniform brightness, wide field of view) and high beam (ultra-high illuminance, balanced broad width and luminous flux).

7. MAINTENANCE

Cleaning:

Clean the headlight lenses regularly with a soft cloth and mild automotive cleaning solution. Avoid abrasive cleaners or harsh chemicals that can damage the polycarbonate lens material.

Bulb Replacement:

If a bulb needs replacement, ensure the vehicle is off and the battery is disconnected. Carefully remove the old bulb and install a new H13 halogen bulb, avoiding touching the glass with bare hands. Reconnect wiring and battery.



Image: A visual comparison showing a road scene with an old, yellowed headlight (Before) versus a new, clear WEELMOTO headlight (After), demonstrating improved performance.

8. TROUBLESHOOTING

Temporary Condensation:

It is normal for minor condensation to appear inside the headlight assembly due to temperature differences, air pressure, and other weather conditions. This is typically temporary and should dissipate on its own.

To drive away temporary condensation:

1. Check the one-way vents in the housing and ensure they are not blocked.
2. Turn on the low beam for 20-30 minutes.
3. Take the bulbs out and clear the moisture.
4. Put a silica gel packet inside to absorb moisture.

PLUG-N-PLAY

EASY INSTALL



ONE-WAY VENT
TO PREVENT CONDENSATION



ADJUSTABLE BEAMS
VERTICAL ADJUSTMENT

Image: Rear view of the headlight assembly, highlighting the one-way vent designed to prevent condensation buildup.

Other Issues:

- **Headlight not working:** Check electrical connections, fuses, and bulb integrity. Ensure the wiring harness is securely connected.
- **Dim or flickering light:** Inspect bulb for damage or loose connection. Verify proper voltage supply.

9. SPECIFICATIONS

Feature	Specification
Brand	WEELMOTO
Model Number	DGCL0700-FBM-1
Compatible Vehicle	2007-2012 Dodge Caliber
OEM Equivalent Part Numbers	5303738AJ, 5303739AJ

Light Source Type	Halogen (H13 bulbs included)
Voltage	12 Volts (DC)
Wattage	60 watts
Lens Material	Polycarbonate
Lens Color	Crystal Clear
Housing Color	Chrome
Special Features	Dustproof, High Beam, Low Beam, Waterproof (IP65 Certified)
Certifications	DOT, SAE, IATF16949

HIGH DURABILITY

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

-22°F TO 140°F EXCEEDING ALL REGULATIONS

Image: The headlight assembly highlighting its high durability features, including anti-heat, anti-UV-aging, and anti-freezing properties, with a temperature range of -22°F to 140°F.

10. WARRANTY AND SUPPORT

Warranty Information:

WEELMOTO provides a 2-year manufacturer warranty for this product. This warranty covers defects in materials and workmanship under normal use.

Customer Support:

For any questions, technical assistance, or warranty claims, please contact WEELMOTO customer service directly. Refer to your purchase documentation for specific contact details or visit the official WEELMOTO store page.

11. PRODUCT VIDEO

Video: Official WEELMOTO product video showcasing the Headlights for 2007-2012 Dodge Caliber. This video provides a visual overview of the product's features and design.

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