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› AmeriLite Black LED Bar Headlight Replacement Manual for Dodge Ram 1500/2500/3500 (2009-2018)

AmeriLite 02-AZ-DR09-B-P-G2-A

AmeriLite Black LED Bar Headlight Replacement Manual

FOR 2009-2018 DODGE RAM 1500/2500/3500 TRUCKS

Brand: AmeriLite | Model: 02-AZ-DR09-B-P-G2-A

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your AmeriLite Black LED Bar Replacement Headlights. These headlights are designed to be a direct OEM replacement, enhancing the aesthetic and lighting performance of your vehicle. Please read this manual thoroughly before beginning installation to ensure proper function and safety.



Image 1.1: Black Dodge Ram truck with AmeriLite LED bar headlights installed.

2. Compatibility

These AmeriLite Black LED Bar Headlights are compatible with the following vehicle models:

- 2009-2018 Dodge RAM 1500
- 2010-2018 RAM 2500 | 3500 Dual/Quad Models

These headlights are NOT compatible with factory PROJECTOR headlight trims.



Image 2.1: Compatibility guide showing suitable and unsuitable headlight types for installation.

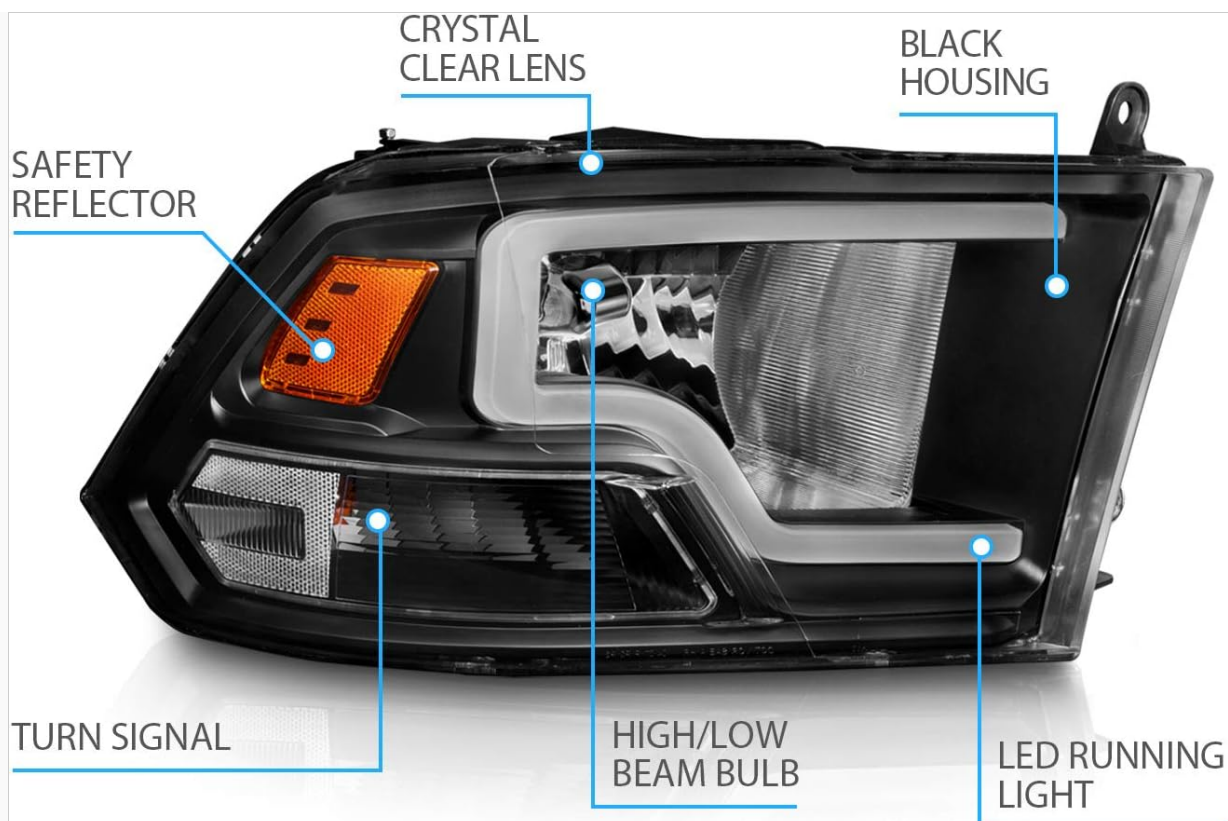


Image 2.2: Compatibility chart for Dodge Ram 1500, 2500, and 3500 models (2009-2018).

3. Package Contents

Your AmeriLite Black LED Bar Headlight set includes:

- One (1) Driver Side Headlight Assembly
- One (1) Passenger Side Headlight Assembly
- High/Low Beam H13 Halogen Bulbs (pre-installed or included separately)
- Turn Signal 3157 Amber Bulbs (pre-installed or included separately)



INCLUDED



High/Low Beam
H13 Halogen Bulb



Turn Signal
3157 Amber Bulb

Image 3.1: Diagram labeling components of the headlight assembly, including high/low beam, turn signal, LED running light, and safety reflector.

4. Safety Information

Always prioritize safety during installation and operation. Failure to follow these guidelines may result in injury or damage to your vehicle.

- **Disconnect Battery:** Before starting any electrical work, disconnect the vehicle's negative battery terminal to prevent electrical shorts or injury.
- **Wear Protective Gear:** Use appropriate personal protective equipment, such as safety glasses and gloves.
- **Professional Installation:** If you are unsure about any step, consult a qualified automotive technician.
- **Handle with Care:** Headlight assemblies contain delicate components. Handle them carefully to avoid damage.
- **DOT & SAE Compliance:** These headlights meet or exceed all U.S. & Canadian safety standards. Ensure all connections are secure for proper function.

5. Installation

These headlights are designed for direct OEM replacement, requiring no modification to your vehicle. Basic mechanical skills are recommended for installation.

Required Tools:

- Socket wrench set
- Screwdriver set (Phillips head may be needed for adjustment)
- Wire strippers/crimpers (if wiring DRLs independently)
- Electrical tape or heat shrink tubing

Installation Steps:

1. **Prepare Vehicle:** Park your vehicle on a level surface, engage the parking brake, and disconnect the negative battery terminal.
2. **Remove Old Headlights:** Locate and remove the bolts or clips securing the existing headlight assemblies. Carefully disconnect all electrical connectors and remove the old headlights.
3. **Connect New Headlights:** Connect the main electrical harness to the new AmeriLite headlight assembly. Ensure the turn signal and high/low beam connectors are securely attached.
4. **Daytime Running Light (DRL) Wiring:** The LED bar functions as a DRL. These typically have two extra wires (power and ground) for the DRL feature. You can wire these to your parking lights (requiring parking lights to be on for DRLs) or to an ignition-switched fuse for DRLs to be always on when the vehicle is running. Use appropriate waterproof connectors, solder, and heat shrink tubing for secure connections.
5. **Mount New Headlights:** Carefully position the new headlight assemblies into place and secure them with the original bolts or clips.
6. **Reconnect Battery:** Reconnect the negative battery terminal.
7. **Test Lights:** Turn on your vehicle and test all lighting functions: low beams, high beams, turn signals, and DRLs.
8. **Adjust Headlights:** Adjust the headlight beam aim using the adjustment screws, typically located on the back or top of the housing. A Phillips screwdriver may be needed. Note that adjustment direction might be opposite to factory headlights.



Image 5.1: Rear view of the headlight assembly showing the turn signal connector, high/low beam connector, and running light power and ground wires.

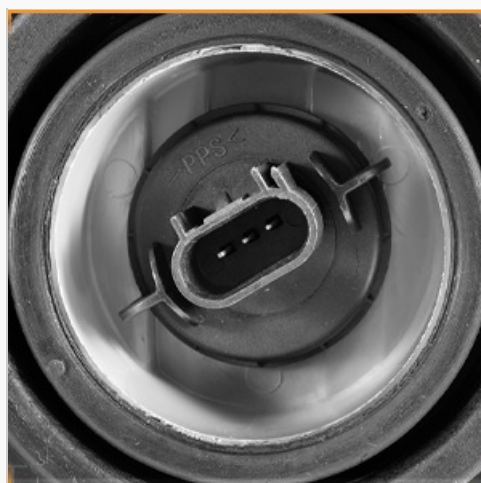


Image 5.2: Close-up of a socket wire harness connection during installation.

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Video 5.1: Official AmeriLite product video showcasing the LED bar headlights on a Dodge Ram truck, highlighting their design and functionality.

6. Operation

Your AmeriLite LED Bar Headlights function similarly to your vehicle's original headlights, with the added LED Daytime Running Light (DRL) feature.

- **Low Beams:** Provide standard illumination for night driving.
- **High Beams:** Provide maximum illumination for clear visibility on dark roads.
- **Turn Signals:** Amber bulbs flash to indicate turns or lane changes.
- **LED Daytime Running Lights (DRLs):** The integrated LED bar provides enhanced visibility during daylight hours. These can be wired to activate with your parking lights or independently with the ignition.

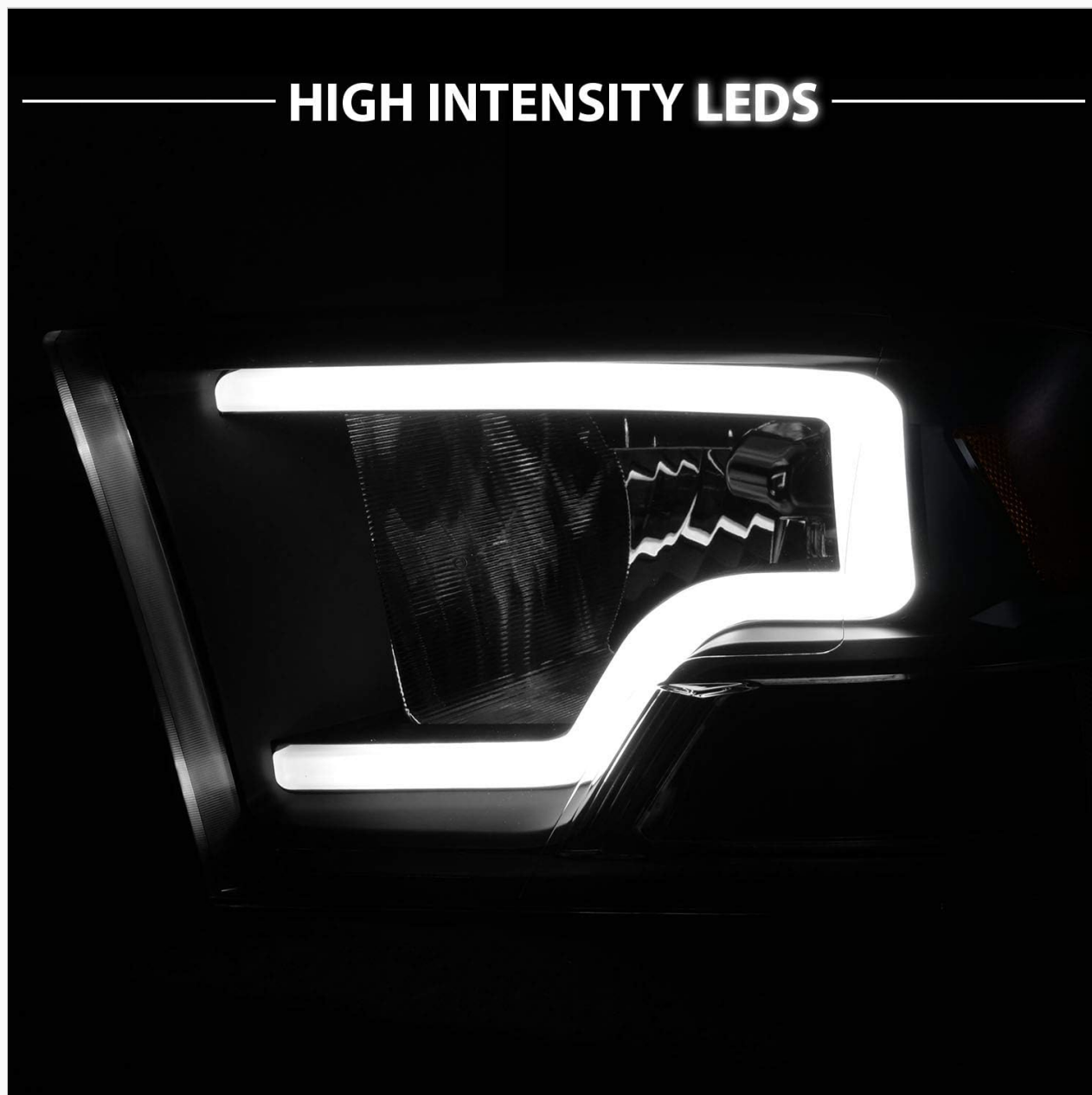


Image 6.1: Close-up of the high-intensity LED running lights illuminated.



Image 6.2: Front view of the AmeriLite LED bar replacement headlights.

7. Maintenance

Proper maintenance ensures the longevity and optimal performance of your headlights.

- **Cleaning:** Clean the headlight lenses regularly with a soft cloth and mild automotive cleaner. Avoid abrasive materials that can scratch the polycarbonate lens.
- **Bulb Replacement:** If a bulb burns out, replace it with the correct type (H13 for high/low beam, 3157 for turn signal). Refer to your vehicle's manual for specific bulb replacement procedures.
- **Condensation Check:** Periodically inspect the headlights for moisture.

Condensation vs. Abnormal Moisture:

It is normal for slight condensation (light haze) to appear inside new lamps, especially in high humidity. This typically dissipates with use. However, thick droplets or persistent moisture indicate abnormal moisture, which may be due to a seal failure or defect. If abnormal moisture is observed, check seals and contact support.

CONDENSATION vs. MOISTURE

NORMAL CONDENSATION

-  **Appearance:** Light haze.
-  **Common:** New lamps, high humidity.
-  **Solution:** Dissipates with use.



ABNORMAL MOISTURE

-  **Appearance:** Thick droplets.
-  **Cause:** Seal failure, defect.
-  **Action:** Check seals, contact support.



TROUBLESHOOTING

-  1. AIR-DRY & INSPECT
-  2. SECURE PROPERLY
-  3. CONTACT SELLER

Image 7.1: Visual guide distinguishing between normal condensation and abnormal moisture inside headlight assemblies, with troubleshooting steps.

8. Troubleshooting

If you encounter issues with your headlights, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Headlights not working	Loose connection, blown fuse, faulty bulb	Check all electrical connections, inspect vehicle fuses, replace bulbs if necessary.
DRLs not illuminating	Incorrect wiring, loose DRL connection	Verify DRL wiring connections (power and ground), ensure they are securely connected to the intended power source.

Problem	Possible Cause	Solution
Excessive moisture inside lens	Seal failure, defect	Refer to Section 7 (Maintenance) for distinguishing normal condensation from abnormal moisture. If abnormal, air-dry and inspect seals. Contact customer support if the issue persists.
Improper beam aim	Headlights not adjusted	Adjust headlight aim using the adjustment screws as described in Section 5 (Installation).

If troubleshooting steps do not resolve the issue, please contact AmeriLite customer support.

9. Specifications

- **Brand:** AmeriLite
- **Model Number:** 02-AZ-DR09-B-P-G2-A
- **Color:** Black
- **Specific Uses For Product:** Head Lights
- **Light Source Type:** LED, Halogen
- **Vehicle Service Type:** Truck
- **Compatible Years:** 2009-2018
- **Special Feature:** Waterproof
- **Voltage:** 12 volts DC
- **Auto Part Position:** Front
- **Lens Color:** Clear
- **Lens Material:** Polycarbonate
- **Automotive Fit Type:** Vehicle Specific Fit
- **OEM Equivalent Part Numbers:** 55277409AD, 55277409AE, 55277409AF, 55277410AD, 55277410AE, 55277410AF



Image 9.1: Features overview: Multi-layer protection, high intensity LEDs, plug & play installation, and weatherproof design.

10. Warranty and Support

AmeriLite provides the following warranty and support for this product:

- **Money Back Guarantee:** 30-Days
- **Limited Warranty:** 90 Days
- **Return Policy:** 30 days for refund/replacement

For technical assistance, warranty claims, or any other inquiries, please contact AmeriLite customer support through their official channels or the retailer where the product was purchased.