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› [AKKON](#) /

› [AKKON Headlight and Tail Light Assembly User Manual for Dodge Ram 2009-2023](#)

AKKON 9-P1DRA09G2C-A1DRA09RC2

AKKON Headlight and Tail Light Assembly User Manual

Model: 9-P1DRA09G2C-A1DRA09RC2

INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your AKKON Headlight and Tail Light Assemblies. These assemblies are designed as direct replacements for specific Dodge Ram models, featuring projector beam headlights with DRL and LED tail lights. Please read this manual thoroughly before proceeding with installation or use.

COMPATIBILITY

These light assemblies are compatible with the following vehicle models:

- 2009-2018 Dodge Ram 1500
- 2010-2018 Dodge Ram 2500/3500
- 2019-2023 Dodge Ram 1500 Classic

Important Compatibility Notes:

- **Not Compatible** on models equipped with factory projector headlights.
- **Not Compatible** on 2013-2023 models equipped with OEM LED tail lights.

FEATURES

The AKKON Headlight and Tail Light Assemblies offer enhanced lighting performance and durability:

- **Projector Headlights:** Designed to provide a focused and improved light pattern compared to traditional crystal headlights.
- **LED Halos:** Ultra-bright SMD LED chips for daytime running lights (DRL).
- **Switch-back LED Turn Signals:** Function as white running lights and switch to bright amber for turn indication.
- **DOT & SAE Approved:** Complies with Department of Transportation and Society of Automotive Engineers standards for safety and quality.
- **Waterproof Design:** Engineered to resist moisture ingress, ensuring long-term performance.

- **Durable Construction:** Polycarbonate lenses and polished chrome housing for headlights, chrome red housing for tail lights.
- **Bulbs Included:** Low beam uses H7 bulb, high beam uses H9 bulb.

SETUP AND INSTALLATION

Installation of these light assemblies requires automotive knowledge and tools. Professional installation is highly recommended to ensure proper fitment, wiring, and functionality. Incorrect installation can lead to damage to the product or vehicle's electrical system.

General Installation Steps (Consult a professional or vehicle-specific guide for detailed instructions):

1. **Safety First:** Disconnect the vehicle's battery before beginning any electrical work.
2. **Access:** Remove any necessary components (e.g., grille, bumper fascia) to gain access to the factory headlight and tail light assemblies.
3. **Removal:** Disconnect the wiring harnesses and unbolt the existing light assemblies. Carefully remove them from the vehicle.
4. **New Assembly Placement:** Position the new AKKON light assemblies into the vehicle's light pockets.
5. **Wiring:** Connect the new light assemblies' wiring harnesses to the vehicle's corresponding connectors. Ensure all connections are secure. For DRL and switch-back turn signal functions, additional wiring may be required to integrate with the vehicle's existing electrical system.
6. **Secure:** Bolt the new assemblies into place, ensuring they are firmly mounted.
7. **Reassembly:** Reinstall any removed vehicle components.
8. **Testing:** Reconnect the battery. Test all light functions (DRL, low beam, high beam, turn signals, tail lights, brake lights, reverse lights) before driving.
9. **Aiming:** Properly aim the headlights according to local regulations to prevent blinding oncoming traffic and ensure optimal visibility.



Image: Front view of the AKKON projector headlight assemblies with DRL and turn signal functionality.



Image: Rear view of the AKKON LED tail light assemblies with red cosmos lens.



Image: Rear view of the AKKON headlight assembly, detailing the wiring harness and bulb access points.

OPERATING INSTRUCTIONS

Once installed, the AKKON light assemblies operate in conjunction with your vehicle's existing lighting controls.

- **Daytime Running Lights (DRL):** The LED halos will illuminate automatically when the vehicle is running, depending on your vehicle's DRL system configuration.
- **Low Beam Headlights:** Activate via your vehicle's headlight switch. These provide standard illumination for night driving.
- **High Beam Headlights:** Activate via your vehicle's high beam stalk. These provide maximum illumination for dark roads.
- **Turn Signals:** Activate via your vehicle's turn signal stalk. The switch-back LEDs will flash amber.
- **Tail Lights/Brake Lights:** These will illuminate automatically with your vehicle's tail light and brake pedal activation.



— PROJECTOR LOW BEAM —

Image: Close-up view of the projector lens for the low beam headlight, showing its design.



PROJECTOR HIGH BEAM

Image: Close-up view of the projector lens for the high beam headlight, highlighting its optical properties.

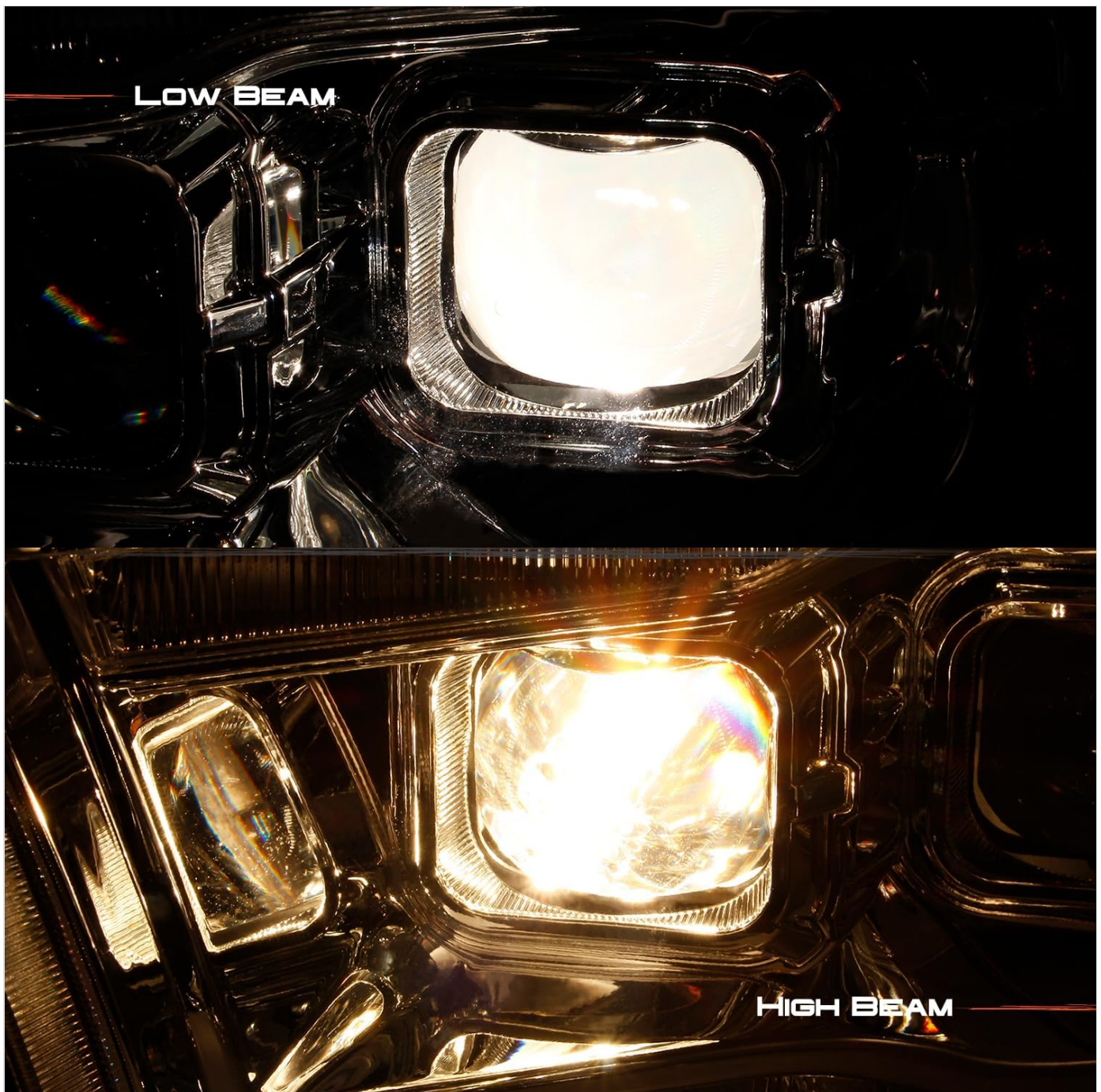


Image: Comparison of the illumination pattern and intensity between the low beam and high beam settings.

MAINTENANCE

To ensure the longevity and optimal performance of your AKKON light assemblies, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the outer lenses with a soft cloth and mild automotive soap or glass cleaner. Avoid abrasive cleaners or harsh chemicals that can damage the polycarbonate lens material.
- **Inspection:** Periodically inspect the assemblies for any signs of damage, cracks, or moisture ingress. Check wiring connections for corrosion or looseness.
- **Bulb Replacement:** If a headlight bulb (H7 for low beam, H9 for high beam) fails, replace it with a bulb of the same type and wattage. Refer to your vehicle's service manual for specific bulb replacement procedures, as access may vary.
- **Seal Integrity:** Ensure the seals around the light assemblies remain intact to maintain their waterproof properties.

TROUBLESHOOTING

If you encounter issues with your light assemblies, consider the following common troubleshooting steps:

- **Lights Not Working:**

- Check vehicle fuses related to lighting.
- Verify all wiring connections are secure and free from corrosion.
- Ensure bulbs are properly seated and not burnt out (for H7/H9).
- Confirm compatibility with your vehicle model (refer to Compatibility section).

- **Flickering Lights:**

- Inspect wiring for loose connections or damaged insulation.
- Ensure proper grounding.
- If using aftermarket LED bulbs (not included for H7/H9), a resistor or decoder may be required to prevent flickering.

- **Moisture Inside Lens:**

- Small amounts of condensation can occur due to temperature changes and usually dissipate.
- If significant water accumulation or persistent condensation occurs, inspect the housing for cracks or compromised seals. Ensure all caps and covers are securely in place.

- **Incorrect Light Pattern/Aim:**

- Headlights may require adjustment after installation. Consult a professional or your vehicle's service manual for proper aiming procedures.

If these steps do not resolve the issue, contact AKKON customer support or a qualified automotive technician.

SPECIFICATIONS

Feature	Detail
Brand	AKKON
Model Number	9-P1DRA09G2C-A1DRA09RC2
UPC	192744048070
Headlight Housing	Polished Chrome
Tail Light Housing	Chrome Red
Lens Material	Polycarbonate
Lens Color	Clear
Low Beam Bulb Type	H7 (Included)
High Beam Bulb Type	H9 (Included)
Special Features	Waterproof, Projector Beam, LED DRL, Switch-back LED Turn Signal
Certifications	DOT & SAE Approved
Item Weight	26.2 pounds (total package)

Package Dimensions	25 x 25 x 14 inches
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WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please contact AKKON directly through their official website or the retailer from whom the product was purchased. Keep your purchase receipt and model number handy for faster service.

Manufacturer: AKKON

Contact: Refer to AKKON's official website for customer service contact information.