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› AmeriLite Headlight Assembly Instruction Manual for 2014-2016 GMC Sierra 1500/2500HD/3500HD

AmeriLite 02-AZ-GS14-PBC-P-A

AmeriLite Headlight Assembly Instruction Manual

For 2014-2016 GMC Sierra 1500, 2015-2019 Sierra 2500HD & 3500HD (Halogen Type)

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of your AmeriLite LED Bar Projector Black Headlight Assembly. This product is designed as a direct OEM replacement for specific GMC Sierra models, enhancing visibility and vehicle aesthetics.

1.1 Compatibility

- **Fits:** 2014-2015 GMC Sierra 1500, 2015-2019 GMC Sierra 2500 HD, 2015-2019 GMC Sierra 3500 HD
- **Does NOT Fit:** Vehicles equipped from the factory with LED Bar or Stock HID Headlight Models.



Image 1.1: Compatibility check for GMC Sierra models. Ensure your vehicle has stock halogen headlights.

1.2 Key Features

- **DOT & SAE Compliant:** Meets or exceeds all U.S. and Canadian safety standards.
- **Direct OEM Replacement:** Designed for easy installation without modification.
- **High Intensity LED Running Light:** Integrated C-shape LED bar for enhanced daytime visibility.
- **Projector Beam:** Provides focused and clear light output.
- **Durable Construction:** Made with premium materials and features a polycarbonate lens for longevity.
- **Weatherproof:** Designed to withstand various environmental conditions.



Image 1.2: Overview of product features including multi-layer protection and high-intensity LEDs.

2. SAFETY INFORMATION

Please read all safety warnings and instructions before beginning installation. Failure to follow these instructions may result in property damage, personal injury, or improper product function.

- Always disconnect the vehicle's battery before performing any electrical work.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is parked on a level surface with the parking brake engaged.
- If you are unsure about any step, consult a qualified automotive technician.
- Dispose of old parts responsibly according to local regulations.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- 1x Driver Side Headlight Assembly
- 1x Passenger Side Headlight Assembly
- 2x High/Low Beam H7 Halogen Bulbs (Pre-installed or included)
- 2x Turn Signal 7443 Amber Bulbs (Pre-installed or included)



Image 3.1: Included bulbs for high/low beam and turn signal functions.

4. SETUP AND INSTALLATION

This section outlines the steps for installing your new AmeriLite Headlight Assemblies. Professional installation is recommended if you are not familiar with automotive electrical systems or bodywork.

4.1 Tools Required (Not Included)

- Socket Wrench Set
- Screwdriver Set (Phillips and Flathead)
- Trim Removal Tool (Optional, but recommended)
- Clean Cloth

4.2 Pre-Installation Steps

1. Park the vehicle on a flat, stable surface and engage the parking brake.

2. Turn off the engine and remove the key from the ignition.
3. Disconnect the negative terminal of the vehicle's battery to prevent electrical shorts.
4. Open the hood and locate the existing headlight assemblies.

4.3 Removal of Existing Headlights

1. Identify and remove any retaining clips, bolts, or screws securing the grille and bumper cover. Carefully detach the grille and partially pull back the bumper cover to access the headlight mounting points.
2. Locate and remove the mounting bolts/screws that hold the headlight assembly in place. There are typically 2-3 bolts accessible from the top and side.
3. Gently pull the old headlight assembly forward to disengage it from its mounting tabs.
4. Carefully disconnect all electrical connectors from the back of the headlight assembly. Twist and remove any bulbs that are not integrated into the new assembly, if applicable.
5. Remove the old headlight assembly from the vehicle.

4.4 Installation of New Headlights

1. Ensure the new AmeriLite headlight assembly has all necessary bulbs installed. If not, install the provided H7 and 7443 bulbs into their respective sockets.
2. Connect all electrical connectors from the vehicle's wiring harness to the corresponding ports on the back of the new headlight assembly. Ensure connections are secure.
3. Carefully slide the new headlight assembly into its mounting position, ensuring all tabs and alignment pins engage correctly.
4. Secure the headlight assembly using the original mounting bolts/screws. Do not overtighten.
5. Repeat the process for the other side.
6. Reinstall the bumper cover and grille, securing all clips, bolts, and screws.



Image 4.1: Rear view of the headlight assembly highlighting electrical connections and adjustment points.



Image 4.2: Example of connecting the socket wire harness during installation.

4.5 Post-Installation Checks

1. Reconnect the negative terminal of the vehicle's battery.

2. Turn on the vehicle's headlights, high beams, turn signals, and parking lights to ensure all functions are operating correctly.
3. Verify that the LED running lights illuminate.
4. Check for any loose connections or abnormal flickering.
5. Adjust the headlight beam aim as necessary (refer to Section 5.2).

5. OPERATING INSTRUCTIONS

Your new AmeriLite Headlight Assemblies operate in conjunction with your vehicle's existing lighting controls.

5.1 Headlight Functions

- **Low Beam:** Provides standard illumination for general driving conditions.
- **High Beam:** Provides maximum illumination for improved visibility on dark roads. Activate using your vehicle's high beam switch.
- **LED Running Light (DRL):** The integrated C-shape LED bar functions as a Daytime Running Light, enhancing vehicle visibility during daylight hours. This typically activates automatically with the ignition.
- **Turn Signal:** The amber bulb provides directional indication.

High Intensity LED Running Light



Image 5.1: High intensity LED running light in operation.



Image 5.2: The C-shape LED light bar serving as a Daytime Running Light.

5.2 Beam Adjustment

Proper headlight aim is crucial for safe driving and to avoid blinding oncoming traffic. After installation, it is recommended to check and adjust the beam aim.

1. Park your vehicle on a level surface approximately 25 feet (7.6 meters) from a wall.
2. Measure the height from the ground to the center of your headlight lens. Mark this height on the wall.
3. Locate the beam adjuster screw on the back of the headlight assembly (refer to Image 4.1).
4. Using a Phillips screwdriver or appropriate tool, turn the adjuster screw to raise or lower the beam until the top edge of the low beam cut-off is slightly below the marked line on the wall.
5. Repeat for both headlights. Fine-tune as needed for optimal visibility without causing glare to other drivers.

6. MAINTENANCE

Regular maintenance will help ensure the longevity and optimal performance of your headlight assemblies.

- **Cleaning:** Clean the headlight lenses regularly with a soft cloth and mild automotive soap or glass cleaner. Avoid abrasive cleaners or harsh chemicals that can damage the polycarbonate lens.
- **Inspection:** Periodically inspect the headlight assemblies for any signs of damage, cracks, or moisture intrusion. Check electrical connections for corrosion or looseness.
- **Bulb Replacement:** If a halogen bulb burns out, replace it with an H7 (for high/low beam) or 7443 (for turn signal) bulb of the correct wattage. Refer to your vehicle's owner's manual for specific bulb replacement procedures, as access may vary.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your headlight assemblies.

Problem	Possible Cause	Solution
Headlights not turning on	Blown fuse, loose electrical connection, faulty bulb, wiring issue.	Check vehicle fuses. Verify all electrical connectors are securely plugged in. Replace faulty bulbs. Inspect wiring for damage.
One headlight not working	Faulty bulb, loose connection to that specific headlight.	Replace the bulb. Check the electrical connector for that headlight.
LED running light not illuminating	Loose connection, wiring issue, LED module failure.	Check connections. If issue persists, contact support.
Moisture inside the lens	Condensation (normal in some conditions), seal failure.	Small amounts of condensation usually dissipate. If excessive or persistent, check for proper sealing and contact support if necessary.
Headlight beam is too high/low	Improper beam adjustment.	Adjust the headlight beam aim using the adjuster screw (refer to Section 5.2).

8. SPECIFICATIONS

Specification	Detail
Brand	AmeriLite
Model Number	02-AZ-GS14-PBC-P-A
Vehicle Service Type	Truck (GMC Sierra 1500/2500HD/3500HD)
Light Source Type	Halogen (for main beam), LED (for DRL)
Lens Material	Polycarbonate
Color	Black Housing, Clear Lens
Voltage	12 Volts (DC)
Special Feature	Waterproof
OEM Equivalent Part Numbers	84144049, 84144050, 23130718, 23130717

9. WARRANTY AND SUPPORT

9.1 Warranty Information

AmeriLite provides a **30-Days Money Back Guarantee** and a **90 Days Limited Warranty** on this product. This warranty covers manufacturing defects and ensures the product is free from defects in material and workmanship under normal use.

The warranty does not cover damage caused by improper installation, accident, misuse, abuse, neglect, unauthorized modification, or normal wear and tear.

9.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your AmeriLite Headlight Assembly, please contact AmeriLite customer support through the retailer where the product was purchased or visit the official AmeriLite website for contact information.

When contacting support, please have your product model number (02-AZ-GS14-PBC-P-A) and proof of purchase readily available.