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> VLAND LED Headlights Instruction Manual for Chevrolet Camaro (2016-2018)

VLAND YAA-CMR-2048-16

VLAND LED Headlights Instruction Manual

Model: YAA-CMR-2048-16 for Chevrolet Camaro (2016-2018)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your new VLAND LED Headlights. These headlights are designed as a direct replacement for the factory halogen/xenon front lamps on specific Chevrolet Camaro models, enhancing both functionality and aesthetic appeal with advanced lighting features.



Image 1.1: VLAND LED Headlights showcasing their design and illumination.

2. PRODUCT FEATURES

- **OEM Direct Fitment:** Engineered for a precise fit, these headlights are a direct bolt-on replacement for original equipment, requiring no vehicle modifications.
- **Dynamic Animation DRL:** Features a choreographed sequence of light upon vehicle unlock, providing a modern welcome light effect.
- **Breathing Lighting:** Incorporates a breathing light effect for enhanced visual appeal.
- **Sequential Amber Turn Signals:** Equipped with a row of amber LEDs that illuminate in a sequential pattern for turn indication, including a built-in T20 bulb.
- **SAE/DOT Certified:** Approved by the Society of Automotive Engineers (SAE) and compliant with Department of Transportation (DOT) regulations and FMVSS 108 standards, ensuring legal and safe operation.
- **Durable Construction:** Features IP67 waterproof, dust-proof, and shock-proof design with a polycarbonate lens for longevity and resistance to environmental elements.
- **Optimized Illumination:** Provides a color temperature range of 6500K-7500K for bright and clear visibility.



Image 2.1: Illustration of the various lighting modes and features.

TURN SIGNAL SEQUENTIAL INDICATOR



Image 2.2: Sequential turn signal indicator.

DYNAMIC ANIMATION LIGHT



DYNAMIC ANIMATION comes to life when you turn on the DRL. A breathing light and choreographed sequence of light in motion greets you as welcome ceremony.

Image 2.3: Dynamic animation light sequence.

3. COMPATIBILITY

These VLAND LED Headlights are compatible with the following Chevrolet Camaro models:

- Chevrolet Camaro 2016 (LT, SS, RS, ZL, LS)
- Chevrolet Camaro 2017 (LT, SS, RS, ZL, LS)
- Chevrolet Camaro 2018 (LT, SS, RS, ZL, LS)

Designed for vehicles with factory halogen or xenon front lamps.



Image 3.1: Visual comparison of vehicle appearance before and after headlight installation.

4. INSTALLATION (SETUP)

Installation of these headlights is designed to be a direct plug-and-play operation. However, professional installation is recommended to ensure proper function and alignment.

4.1. Pre-Installation Check

- Inspect the package upon arrival. Do not install if the product is damaged. Contact customer support immediately if damage is found.
- Ensure all components are present as per the packing list.
- Verify vehicle compatibility.

4.2. Installation Steps (General Guidelines)

1. **Disconnect Battery:** For safety, disconnect the vehicle's negative battery terminal before beginning installation.
2. **Remove Existing Headlights:** Carefully remove the original headlight assemblies according to your vehicle's service manual.

3. Connect New Headlights:

- Connect the main headlight plug to the vehicle's wiring harness.
- For vehicles with HID Edition, use the provided adapter and insert the ACC wire into the designated fuse box slot (refer to Image 4.2).
- For vehicles with Halogen Edition, insert the ACC wire into the designated fuse box slot (refer to Image 4.2).
- Connect the plug for the turn signal.

4. **Secure Headlights:** Mount the new VLAND LED Headlights securely in place.

5. **Reconnect Battery:** Reconnect the vehicle's negative battery terminal.

6. **Test Functionality:** Turn on the vehicle and test all headlight functions: low beam, high beam, DRL, dynamic animation, breathing light, and sequential turn signals.

7. **Adjust Headlight Aim:** Use the left/right and up/down adjusting screws located on the back of the headlight assembly to properly aim the headlights (refer to Image 4.1).



Image 4.1: Back of the headlight assembly with connection points and adjustment screws.



Image 4.2: Fuse box connection points for HID and Halogen editions.

5. OPERATION

- **Daytime Running Lights (DRL):** The DRLs will activate automatically when the vehicle is turned on.
- **Dynamic Animation:** Upon unlocking the vehicle, the DRLs will perform a dynamic animation sequence.
- **Breathing Lighting:** The headlights feature a subtle breathing light effect during operation.
- **Sequential Turn Signals:** When the turn signal is activated, the amber LEDs will light up in a sequential flow, indicating the direction of the turn.
- **Low Beam/High Beam:** Operate these functions as you would with standard headlights using your vehicle's light stalk.

6. MAINTENANCE

6.1. General Care

- Regularly clean the headlight lenses with a soft cloth and mild automotive cleaning solution to maintain clarity and light output.

- Avoid abrasive cleaners or harsh chemicals that could damage the polycarbonate lens.
- The IP67 rating ensures protection against dust and water ingress, but avoid high-pressure washing directly onto the headlight seals.



Image 6.1: Headlight durability features.

6.2. Addressing Condensation

Minor condensation inside headlight assemblies can occur due to temperature changes. This is often normal and should dissipate. If persistent, consider the following:

- Apply heat to the assemblies using a hairdryer or heat gun (on a low setting, from a safe distance) to help dry out the condensation.
- If a heating element is unavailable, remove the headlight bulbs and dust caps, then park the vehicle in direct sunlight to allow natural drying.
- To prevent condensation, especially in humid conditions or after washing, ensure the vehicle is kept away from excessive moisture and allow headlights to dry naturally.

7. TROUBLESHOOTING

- **Headlights Not Functioning:**

- Check all electrical connections to ensure they are secure.
- Verify that the ACC wire is correctly inserted into the fuse box.
- Inspect vehicle fuses related to lighting.

- **Dynamic Animation/Sequential Turn Signal Not Working:**

- Ensure all specific plugs for these features are connected properly (refer to Image 4.1).
- Confirm the T20 bulb for the turn signal is correctly installed.

- **Persistent Condensation:** Refer to Section 6.2 for detailed steps on addressing condensation. If the issue persists after following these steps, contact customer support.

- **Damaged or Defective Product:** If the merchandise is damaged upon receipt or becomes defective within the warranty period, please contact VLAND customer support. Provide the product label, video, and picture proof clearly showing the defect.

8. SPECIFICATIONS

Feature	Detail
Brand	VLAND
Model Number	YAA-CMR-2048-16
Vehicle Service Type	2016-2018 Chevrolet Camaro (LT, SS, RS, ZL, LS)
Specific Uses For Product	Head Lights
Special Features	Dynamic Animation DRL, Breathing Lighting, Sequential Turn Signal
Wattage	42 watts
Auto Part Position	Front
Lens Color	Clear
Lens Material	Polycarbonate
Certification	SAE/DOT Compliant, FMVSS 108
Waterproof Rating	IP67
Color Temperature	6500K-7500K
Item Weight	22.8 pounds (pair)
Package Dimensions	24.5 x 21.2 x 13.2 inches

9. WARRANTY AND SUPPORT

9.1. Warranty Policy

VLAND products are covered by a **One-Year Warranty** from the original purchase date against manufacturing defects. This warranty covers products found to be defective under normal use.

9.2. Customer Support

For any questions, concerns, or issues after purchase, including product damage, defects, or return requests, please contact VLAND customer support. When contacting support, please provide the following:

- Your order details.
- The product label.
- Video and picture proof clearly showing the defect or issue.

It is recommended to retain all original packaging, labels, and user manuals.