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Diode Dynamics DD0481P

Diode Dynamics SL2 White Fog Light LED Installation and User Manual

Model: DD0481P

PRODUCT OVERVIEW

The Diode Dynamics SL2 White Fog Light LEDs are designed as a direct replacement for Dodge SX 2.0 fog light bulbs (2003-2005 models). These LEDs provide a modern aesthetic and enhanced illumination with correct optical focus for street-legal output. They are engineered for simple plug-and-play installation, requiring no modifications to the vehicle's existing wiring or housing.

Each pair of SL2 LEDs is rigorously tested to ensure consistent color matching and reliable performance, offering a significant upgrade over factory halogen bulbs. The robust design, featuring custom wiring and exclusive zinc castings, contributes to their long-term durability.



Image: Diode Dynamics SL2 White Fog Light LED bulbs. These bulbs feature a durable metal construction with integrated LED chips designed for optimal light output.

KEY FEATURES

- **Direct Replacement:** Specifically designed for Dodge SX 2.0 Fog Light bulbs (2003-2005).
- **Street Legal Output:** Engineered with correct optical focus to ensure compliance with street legal requirements.
- **Plug and Play Installation:** Simple installation process with no modifications needed.
- **High Brightness:** Provides a significant increase in light output compared to factory halogen bulbs.
- **Consistent Color:** Each batch is tested to ensure uniform 6000K Cool White color.
- **Reliable Construction:** Features custom wiring, strain reliefs, solderless terminals, and exclusive zinc castings for durability.
- **USA Engineered and Assembled:** Designed and assembled in the United States.

SETUP AND INSTALLATION

Before beginning installation, ensure the vehicle's ignition is off and the fog light circuit is de-energized. It is recommended to wear appropriate safety gear, such as gloves and eye protection.

- 1. Access Fog Light Bulbs:** Locate the fog light assemblies on your Dodge SX 2.0. Depending on the vehicle's design, access may be from under the bumper, through the wheel well liner, or from the engine bay. Consult your vehicle's service manual for specific access procedures.
- 2. Remove Existing Bulbs:** Carefully twist and pull the existing halogen fog light bulb from its housing. Disconnect the electrical connector by pressing the release tab and pulling it apart.
- 3. Connect New LED Bulbs:** Connect the electrical connector from the vehicle's wiring harness to the connector on the Diode Dynamics SL2 LED bulb. Ensure a secure connection.
- 4. Insert LED Bulbs:** Insert the Diode Dynamics SL2 LED bulb into the fog light housing. Twist the bulb clockwise until it locks securely into place. Ensure the LED chips are oriented correctly for optimal light pattern (typically facing left and right, or up and down, depending on the housing design).
- 5. Test Functionality:** Before reassembling any removed panels, turn on the vehicle's fog lights to verify proper operation of the new LED bulbs. Check for correct illumination and ensure both bulbs are functioning.
- 6. Reassemble:** Once confirmed, reassemble any panels or liners that were removed to access the fog lights.

Note: The SL2 LEDs are designed for a direct fit. Avoid forcing the bulb into the housing. If resistance is met, re-check the alignment.

OPERATING INSTRUCTIONS

The Diode Dynamics SL2 White Fog Light LEDs operate in conjunction with your vehicle's existing fog light switch. Once installed, simply activate your vehicle's fog lights as you normally would. The LEDs will illuminate instantly, providing enhanced visibility and a modern appearance.

- Ensure your vehicle's electrical system is functioning correctly.
- Activate fog lights using the vehicle's factory control.
- The LEDs are designed for continuous operation during vehicle use.

MAINTENANCE

Diode Dynamics SL2 LED fog light bulbs are designed for long-term, maintenance-free operation. Due to their solid-state design, they do not have filaments that can burn out like traditional halogen bulbs.

- **Cleaning:** If the outer lens of your fog light housing becomes dirty, clean it with a soft cloth and mild automotive glass cleaner. Avoid abrasive cleaners that could scratch the lens.
- **Inspection:** Periodically inspect the wiring connections to ensure they remain secure and free from corrosion.
- **Damage:** In case of physical damage to the LED bulb or its housing, replacement may be necessary. Do not attempt to repair the LED bulb internally.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
LEDs do not illuminate.	Loose electrical connection. Incorrect polarity (less common with modern LEDs, but possible). Blown fuse in vehicle's fog light circuit. Faulty LED bulb.	Check and secure all electrical connections. If applicable, try reversing the plug orientation (some LED bulbs are polarity sensitive). Inspect and replace the vehicle's fog light fuse if blown. Test the bulb in another known working socket or contact Diode Dynamics support.
One LED illuminates, the other does not.	Loose connection on the non-working bulb. Faulty non-working LED bulb.	Check and secure the connection for the non-working bulb. Swap the bulbs to determine if the issue follows the bulb or the vehicle's wiring. If it follows the bulb, the bulb may be faulty.
LEDs flicker or dim.	Unstable voltage supply. Loose connection. Canbus system incompatibility (rare for fog lights, but possible).	Ensure vehicle battery and charging system are healthy. Check and secure all connections. If flickering persists, contact Diode Dynamics support for potential Canbus decoders or resistors.

SPECIFICATIONS

Attribute	Value
Model Number	DD0481P
Compatibility	Dodge SX 2.0 (2003-2005) Fog Light Bulbs
Color Temperature	Cool White (6000K)
Amperage	1.6 Amps
Item Weight (pair)	8.8 ounces (approx. 249 grams)
Product Dimensions (each)	Approx. 9.25 x 5.75 x 2.25 inches (packaging dimensions)
Country of Origin	China (Assembly in USA)

Note: Specifications are subject to change without notice for product improvement.

WARRANTY AND SUPPORT

Diode Dynamics SL2 White Fog Light LEDs are backed by a **3-year replacement manufacturer warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or any questions regarding your Diode Dynamics product, please contact Diode Dynamics customer support directly. Please have your proof of purchase and product model number (DD0481P) ready when contacting support.

Diode Dynamics Contact Information:

(Specific contact details like phone number or website URL are typically provided by the manufacturer. Please refer to the official Diode Dynamics website or product packaging for the most current contact information.)

This manual is for informational purposes only. Diode Dynamics is not responsible for any damage or injury resulting from improper installation or use of this product.

Related Documents - DD0481P

	<p>2015+ Dodge Charger LED Sidemarker Installation Guide Diode Dynamics</p> <p>Step-by-step installation guide for Diode Dynamics 2015+ Dodge Charger LED Sidemarkers (SKUs DD5110, DD5111, DD5112). Learn how to replace your factory sidemarkers with brighter, modern LED units. Includes tools needed, detailed instructions for front and rear installation, and support contact information.</p>
	<p>Diode Dynamics SS3 Ram Horizontal Foglight Kit Installation Guide</p> <p>Detailed installation instructions for the Diode Dynamics SS3 3" LED Pod Ram Horizontal Foglight Kit for Ram 1500 (2009-2012) and Ram HD (2010-2018) vehicles with plastic or steel bumpers.</p>
	<p>Diode Dynamics SS3 Ram Vertical Foglight Kit Installation Guide</p> <p>Step-by-step installation guide for the Diode Dynamics SS3 3" LED Pod Ram Vertical Foglight Kit, compatible with 2013-2018 Ram 1500. Includes installation and aiming instructions, SKU details, and support information.</p>
	<p>Ford F-150/Raptor LED Pod Ditch Light Kit Installation Guide</p> <p>Comprehensive installation guide for the Diode Dynamics LED Pod Ditch Light Kit for Ford F-150 (2015-2020) and Ford Raptor (2017-2020). Includes step-by-step instructions, SKU details, and support information.</p>
	<p>Stage Series SS3 LED Pod Foglight Kit Installation Guide</p> <p>Comprehensive installation guide for the Stage Series SS3 Type SV2 Foglight Kit, including aiming instructions and compatibility information for 2019-2021 Chevy Silverado 1500 and 2020-2021 Chevy Silverado HD 2500/3500 models.</p>
	<p>2015+ Dodge Charger LED Sidemarker Installation Guide Diode Dynamics</p> <p>Step-by-step installation guide for Diode Dynamics 2015+ Dodge Charger LED Sidemarkers (SKUs DD5110, DD5111, DD5112). Learn how to replace your factory sidemarkers with brighter, modern LED units. Includes tools needed, detailed instructions for front and rear installation, and support contact information.</p>

