

Diode Dynamics DD0331P

Diode Dynamics License Plate LEDs Instruction Manual

Model: DD0331P
Brand: Diode Dynamics

1. INTRODUCTION

Thank you for choosing Diode Dynamics License Plate LEDs. This product is designed to replace the factory incandescent license plate bulbs in your Ford F-150 (2018-2024 models) with high-performance LED lighting. These HP3 Cool White (6000K) bulbs provide increased output and a modern, crisp white appearance, enhancing both visibility and the aesthetic of your vehicle's rear.

The installation process is designed to be plug-and-play, requiring no complex modifications to your vehicle's wiring or housing.

2. PRODUCT FEATURES

- Direct compatibility with Ford F-150 (2018-2024) license plate light bulbs.
- Increased light output compared to factory incandescent bulbs.
- Modern LED appearance with Cool White (6000K) color temperature.
- Plug-and-play installation, requiring no modification.
- Built with constant-current circuitry for stable performance.
- Waterproof design for durability in various weather conditions.

3. SPECIFICATIONS

Attribute	Detail
Manufacturer	Diode Dynamics

Attribute	Detail
Model Number	DD0331P
Bulb Type	194 HP3
Lumen Output (HP3)	56 lumens
Color Temperature	Cool White (6000K)
Item Weight	0.96 ounces (per pair)
Product Dimensions	6 x 10 x 1 inches (packaging)
Special Features	Waterproof

4. SETUP AND INSTALLATION

The installation of Diode Dynamics License Plate LEDs is a straightforward process. No special tools are typically required, though a small flathead screwdriver may be helpful for prying if the housing is tight.

Safety Precautions:

- Ensure your vehicle is turned off and the parking brake is engaged before beginning installation.
- Allow any existing incandescent bulbs to cool down before handling, as they can be hot.

Installation Steps:

1. **Locate License Plate Light Housings:** Identify the license plate light housings, typically located above the license plate on the rear bumper or tailgate of your Ford F-150.
2. **Access the Bulb:** Depending on your specific F-150 model year, you may need to twist and pull the bulb housing from the assembly, or gently pry open a cover to access the bulb. Refer to your vehicle's owner's manual if unsure.
3. **Remove Old Bulb:** Carefully pull the existing 194 incandescent bulb straight out from its socket.
4. **Insert New LED Bulb:** Take one Diode Dynamics HP3 LED bulb. Insert the metal contacts of the LED bulb into the socket. The HP3 bulbs are non-polar, meaning they will light up regardless of orientation.
5. **Test Functionality:** Before fully reassembling, turn on your vehicle's parking lights or headlights to ensure the new LED bulb illuminates. If it does not, double-check the connection.
6. **Reinstall Housing:** Once confirmed working, carefully push or twist the bulb housing back into place until it is securely seated.
7. **Repeat for Other Side:** Follow the same steps for the other license plate light.



Image: Diode Dynamics HP3 LED bulbs, ready for installation.



LICENSE



Image: Visual comparison of stock incandescent bulbs versus Diode Dynamics HP3 and HP5 Cool White LEDs on a Ford F-150.

5. OPERATING INSTRUCTIONS

Once installed, your Diode Dynamics License Plate LEDs will operate automatically with your vehicle's lighting system. They will illuminate whenever your vehicle's parking lights or headlights are active, just like the original bulbs. No additional controls or settings are required.

6. MAINTENANCE

Diode Dynamics License Plate LEDs are designed for long-term, maintenance-free operation. Due to their solid-state design, they do not have filaments that can break like traditional incandescent bulbs.

- **Cleaning:** If the light output appears diminished, ensure the outer lens of the license plate light housing is clean and free of dirt or debris.
- **Inspection:** Periodically check the lights to ensure both are functioning correctly.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
LED does not light up	Loose connection in socket	Ensure the LED bulb is fully and securely inserted into the socket.

Problem	Possible Cause	Solution
LED flickers or is dim	Poor contact or voltage fluctuation	Remove and reinsert the bulb. Check for any corrosion in the socket. Ensure vehicle's electrical system is stable.
Only one LED lights up	Issue with the unlit bulb or its connection	Check the connection of the non-working bulb. If still not working, swap it with the working bulb to isolate if the issue is with the bulb or the vehicle's wiring.

8. WARRANTY AND SUPPORT

Diode Dynamics products are manufactured to high standards and undergo rigorous quality control. For specific warranty information regarding your License Plate LEDs, please refer to the official Diode Dynamics website or contact their customer support directly.

For technical assistance or further inquiries, please visit the Diode Dynamics official website or contact their customer service department. Contact information can typically be found on their website or product packaging.

Diode Dynamics Official Website: www.diodedynamics.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question