

## Dorman 601-165

# Dorman 601-165 HID Headlight Igniter Instruction Manual

Model: 601-165

## 1. INTRODUCTION AND OVERVIEW

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This manual provides essential information for the proper installation, operation, and maintenance of your Dorman 601-165 High Intensity Discharge (HID) Headlight Igniter. This component is engineered to match the fit and function of the original igniter in specified vehicle applications, ensuring reliable performance and durability for your vehicle's HID headlight system.

The Dorman 601-165 igniter serves as a direct replacement for an original part that may have failed due to electrical or mechanical issues, restoring proper headlight functionality. It is constructed from quality materials to ensure a long service life.

## 2. SAFETY INFORMATION

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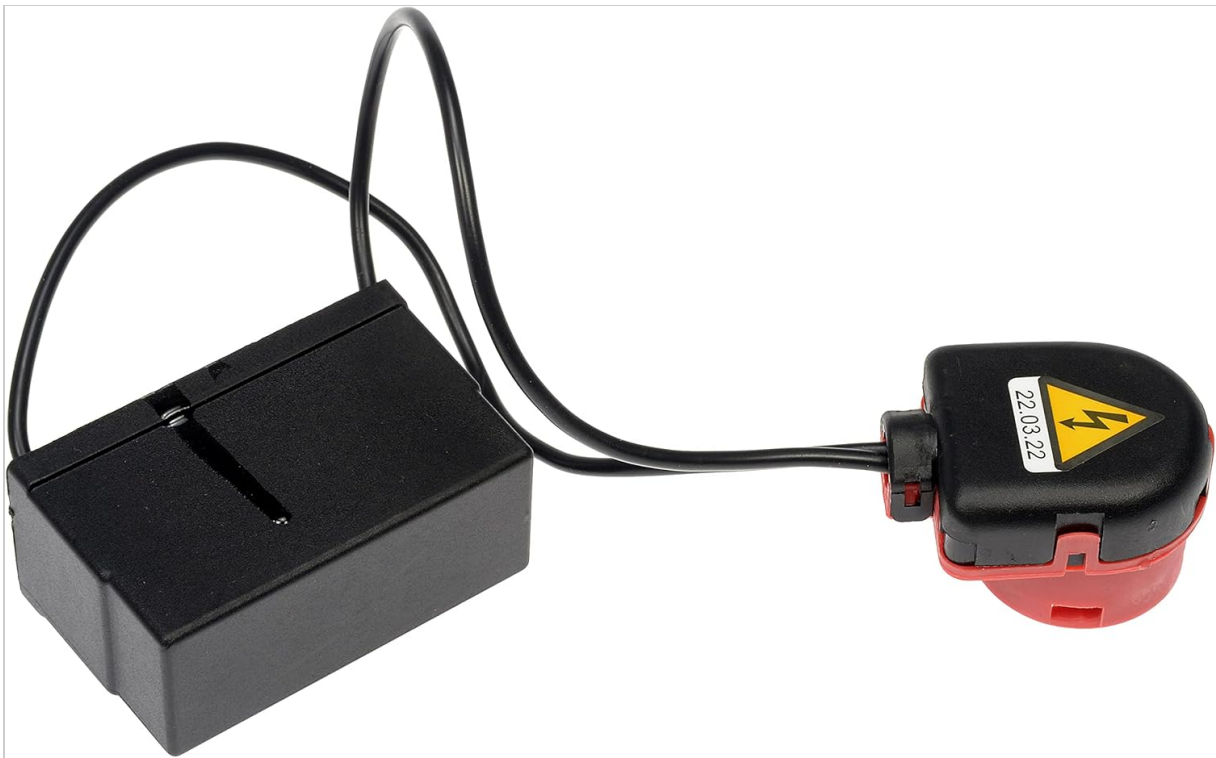
- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage to components.
- HID systems operate at very high voltages. Exercise extreme caution when handling HID components.
- Wear appropriate personal protective equipment, including safety glasses and gloves, during installation.
- Ensure the vehicle is parked on a level surface with the parking brake engaged.
- If you are unsure about any step of the installation process, consult a qualified automotive technician.

## 3. PACKAGE CONTENTS

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Verify that all components are present and undamaged before beginning installation.

- 1 x Dorman 601-165 HID Headlight Igniter (Refurbished Control Ballast)



**Figure 3.1:** The Dorman 601-165 HID Headlight Igniter, showing the main control unit and the connected bulb igniter with wiring.

## 4. SETUP AND INSTALLATION

This igniter is designed for vehicle-specific fitment. Before installation, confirm compatibility with your vehicle's make, model, and trim level using the manufacturer's fitment guide.

### General Installation Steps:

1. **Preparation:** Ensure the vehicle is off and the battery is disconnected. Allow the headlight system to cool down if it was recently in use.
2. **Access:** Gain access to the headlight assembly. This may involve removing other components such as the bumper, fender liner, or other engine bay parts, depending on the vehicle model.
3. **Locate Old Igniter:** Identify the existing HID headlight igniter. It is typically connected directly to the HID bulb and the ballast.
4. **Disconnect Old Igniter:** Carefully disconnect the wiring harness and the igniter from the HID bulb. Note the orientation for reinstallation.
5. **Remove Old Igniter:** Unmount the old igniter from its housing or mounting bracket.
6. **Install New Igniter:** Mount the Dorman 601-165 igniter in the same location and orientation as the original part. Ensure it is securely fastened.
7. **Connect Wiring:** Connect the wiring harness to the new igniter. Ensure all connections are firm and properly seated.
8. **Connect to Bulb:** Carefully connect the igniter to the HID bulb. Ensure the connection is secure and the bulb is properly seated in the headlight assembly.
9. **Reassembly:** Reinstall any components removed to gain access to the headlight assembly.
10. **Test:** Reconnect the vehicle's battery and test the headlight functionality before fully closing up the access points.



**Figure 4.1:** Rear view of the Dorman 601-165 igniter, showing the bulb connection point and product labeling. The label indicates compatibility with D2S/D2R bulbs and specifies electrical parameters.



**Figure 4.2:** A detailed view of the red connector on the Dorman 601-165 igniter, which interfaces directly with the HID bulb. Proper connection is crucial for operation.

## 5. OPERATING INSTRUCTIONS

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Once properly installed, the Dorman 601-165 HID Headlight Igniter operates automatically as part of your vehicle's headlight system. When the headlights are activated, the igniter receives a signal from the ballast and generates a high-voltage pulse to ignite the xenon gas within the HID bulb. After ignition, the ballast regulates the power to maintain the arc and light output.

- Ensure all connections are secure to prevent intermittent operation.
- If the headlight does not illuminate, refer to the troubleshooting section.

## 6. MAINTENANCE

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The Dorman 601-165 HID Headlight Igniter is designed for long-term, maintenance-free operation. Regular maintenance of the igniter itself is not required. However, periodic inspection of the surrounding headlight components can help ensure optimal performance:

- **Wiring:** Periodically check all wiring and connections for signs of wear, corrosion, or damage.

- **Housing:** Ensure the igniter and ballast are securely mounted and protected from excessive moisture or physical impact.
- **Bulb Condition:** A failing HID bulb can sometimes mimic igniter issues. Inspect bulbs for signs of discoloration or flickering.

## 7. TROUBLESHOOTING

If your HID headlight system is not functioning correctly after installing the Dorman 601-165 igniter, consider the following troubleshooting steps:

Symptom	Possible Cause	Solution
Headlight does not turn on	Loose connection, faulty bulb, faulty ballast, incorrect installation	Check all wiring connections. Test with a known good HID bulb. Verify ballast operation. Review installation steps.
Headlight flickers or turns off intermittently	Loose connection, failing bulb, power supply issue	Ensure all connections are tight. Replace HID bulb if it is old or discolored. Check vehicle's electrical system.
Headlight illuminates but is dim or discolored	Failing HID bulb, incorrect bulb type	Replace the HID bulb. Ensure the correct D2S/D2R bulb type is used.

If these steps do not resolve the issue, professional diagnosis by a qualified automotive technician is recommended.

## 8. SPECIFICATIONS

Feature	Specification
Brand	Dorman
Model Number	601-165
Specific Uses For Product	Head Lights
Vehicle Service Type	Car
Special Feature	Waterproof
Auto Part Position	Front
Lens Material	Plastic

Feature	Specification
Item Dimensions (L x W x H)	4.13 x 4.65 x 1.77 inches
Item Weight	0.01 ounces
UPC	885484361751
Assembly Required	No
Automotive Fit Type	Vehicle Specific Fit
Manufacturer	Dorman Products
OEM Part Numbers	3H10004; 203 820 16 85; 2038202526; 230 820 19 26; 63120406709; 63126907496; 63126907504; 63126912114; 63126918592; 63126918593; 63127176068; 99363119302; GJ6E-51-0H3A9A; YM211 3L028 AA

## 9. WARRANTY AND SUPPORT

The Dorman 601-165 HID Headlight Igniter is backed by Dorman's team of product experts, leveraging over a century of automotive experience. For specific warranty details or technical assistance, please refer to the official Dorman website or contact Dorman customer support directly. Ensure you have your product model number (601-165) and vehicle information available when seeking support.

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This manual is for informational purposes only. Dorman is not responsible for improper installation or use.