

[Manuals.plus](#) /

› [Dorman](#) /

› [Dorman 601-166 High Intensity Discharge \(HID\) Headlight Igniter Instruction Manual](#)

Dorman 601-166

Dorman 601-166 High Intensity Discharge (HID) Headlight Igniter Instruction Manual

1. INTRODUCTION

This manual provides essential information for the Dorman 601-166 High Intensity Discharge (HID) Headlight Igniter. This component is designed to match the fit and function of the original igniter in specified vehicle applications, ensuring reliable performance and durability. Please read this manual thoroughly before installation and use.



Image 1.1: The Dorman 601-166 HID Headlight Igniter, a replacement part for vehicle headlight systems.

2. PRODUCT FEATURES

- **Direct Replacement:** Engineered to match the fit and function of the original igniter on specified applications.
- **Restores Functionality:** Provides a reliable solution for an original part that has failed due to electrical or mechanical issues.
- **Durable Construction:** Manufactured from quality materials to ensure reliable performance and a long service life.
- **Trustworthy Quality:** Backed by a team of product experts with extensive automotive experience.

3. VEHICLE COMPATIBILITY

This igniter is compatible with a range of vehicles. It is crucial to verify fitment for your specific vehicle make, model, and trim level before purchase and installation. Compatible vehicles include:

- **Acura MDX:** 2007, 2008, 2009
- **Chevrolet Blazer:** 2019, 2020, 2021
- **Chevrolet Malibu:** 2013, 2014, 2015
- **Chevrolet Silverado 1500 LD:** 2019
- **Chevrolet Silverado 1500:** 2015, 2016, 2017, 2018, 2019
- **Chevrolet Silverado 2500 HD:** 2019

- **Chevrolet Silverado 3500 HD:** 2019
- **Chevrolet SS:** 2014, 2015, 2016, 2017
- **Chevrolet Suburban:** 2015, 2016, 2017, 2018, 2019, 2020
- **Chevrolet Tahoe:** 2015, 2016, 2017, 2018, 2019, 2020
- **GMC Acadia Limited:** 2017
- **GMC Acadia:** 2017, 2018, 2019
- **GMC Sierra 1500 Limited:** 2019
- **GMC Sierra 1500:** 2015, 2016, 2017, 2018, 2019
- **GMC Sierra 2500 HD:** 2019
- **GMC Sierra 3500 HD:** 2019
- **GMC Yukon XL:** 2015, 2016, 2017, 2018, 2019, 2020
- **GMC Yukon:** 2015, 2016, 2017, 2018, 2019, 2020
- **Infiniti QX56:** 2004, 2005, 2006, 2007, 2008, 2009, 2010
- **Mazda CX-7:** 2007, 2008, 2009, 2010, 2011, 2012
- **Nissan 350Z:** 2003, 2004, 2005, 2006, 2007, 2008
- **Nissan Maxima:** 2008, 2009
- **Nissan Rogue:** 2008
- **Saab 9-2X:** 2005, 2006
- **Subaru Forester:** 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013
- **Subaru Impreza:** 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014
- **Subaru WRX STI:** 2013, 2014
- **Subaru WRX:** 2013, 2014

4. PACKAGE CONTENTS

The Dorman 601-166 HID Headlight Igniter package includes:

- 1 Refurbished Control Ballast (Dorman 601-166 HID Headlight Igniter)

5. SAFETY INFORMATION

Working with automotive electrical systems and headlights can be hazardous. Always observe the following safety precautions:

- Disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage to components.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is stable and properly supported if lifting is required.
- HID systems operate at high voltages. Exercise extreme caution when handling HID components.
- If you are unsure about any step of the installation process, consult a qualified automotive technician.

6. INSTALLATION GUIDE

The Dorman 601-166 HID Headlight Igniter is designed for direct replacement. While general steps are provided, professional installation is recommended due to the complexity of automotive electrical systems and HID

components.

General Installation Steps:

1. **Preparation:** Ensure the vehicle is turned off and the battery is disconnected. Allow the headlight system to cool down if it has been recently in use.
2. **Access the Headlight Assembly:** Depending on your vehicle, this may involve removing grille components, bumper sections, or inner fender liners to gain access to the rear of the headlight assembly.
3. **Locate the Igniter:** Identify the existing HID headlight igniter. It is typically connected to the HID bulb and the ballast.
4. **Disconnect the Old Igniter:** Carefully disconnect the electrical connectors and the bulb socket from the old igniter. Note the orientation and connection points.
5. **Remove the Old Igniter:** Unmount the old igniter from its position.
6. **Install the New Igniter:** Mount the Dorman 601-166 igniter in the same location and connect the electrical connectors and the HID bulb socket. Ensure all connections are secure and properly seated.
7. **Test Functionality:** Before reassembling the vehicle, reconnect the battery and test the headlight function to ensure the new igniter is working correctly.
8. **Reassemble:** Once functionality is confirmed, reassemble any removed vehicle components.





Image 6.1: Top view of the Dorman 601-166 HID Headlight Igniter, illustrating the bulb socket connection point.



Image 6.2: Close-up view of the Dorman 601-166 HID Headlight Igniter's electrical connector, showing the wiring and housing.

7. OPERATION

The Dorman 601-166 HID Headlight Igniter is an integral part of a High Intensity Discharge (HID) lighting system. Its primary function is to provide the initial high-voltage pulse required to ignite the xenon gas within the HID bulb, causing it to produce light. Once the bulb is ignited, the igniter works in conjunction with the ballast to maintain the arc and ensure stable light output. The igniter operates automatically when the vehicle's headlights are activated.

8. CARE AND MAINTENANCE

The Dorman 601-166 HID Headlight Igniter is designed for long-term reliability and typically requires no routine maintenance. To ensure its longevity and proper function:

- Avoid exposing the igniter to excessive moisture or extreme temperatures beyond normal operating conditions.
- Ensure all connections remain clean and secure. Periodically inspect for any signs of corrosion or loose wiring.
- If cleaning is necessary, use a dry, soft cloth. Do not use harsh chemicals or abrasive materials.

9. TROUBLESHOOTING

If you experience issues with your HID headlight system after installing the Dorman 601-166 igniter, consider the following:

- **No Light Output:** Check all electrical connections to ensure they are secure. Verify the HID bulb is correctly seated and not damaged. Inspect the vehicle's fuses related to the headlight system.
- **Intermittent Light:** This could indicate a loose connection, a failing bulb, or an issue with the ballast. Recheck connections and consider testing with a known good bulb or ballast if available.
- **Flickering:** Similar to intermittent light, flickering can be caused by loose connections, a faulty bulb, or an aging ballast.

For more detailed troubleshooting steps and diagnostic information, please refer to the official Dorman Troubleshooting Guide available as a PDF document: [Dorman 601-166 Troubleshooting Guide \(PDF\)](#).

10. TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	Dorman
Model Number	601-166
Item Weight	3.04 ounces
Product Dimensions (L x W x H)	3.15 x 3.15 x 2.05 inches
Color	Silver

Specification	Detail
Specific Uses For Product	Head Lights
Vehicle Service Type	Car
Special Feature	Waterproof
Wattage	42 watts
Auto Part Position	Right
Lens Color (of associated headlight)	Red
Lens Material (of associated headlight)	Polycarbonate
UPC	885484361799
Manufacturer Part Number	601-166
OEM Part Numbers	20928264; 2847489904; 2847489905; 2847489915; 284748991A; 32008716; 32010913; 33129STXA01; 33129STXA02; 84965FE020; 84965FE030; 84965SA010; E221510H3; E221510H5

11. WARRANTY AND CUSTOMER SUPPORT

Dorman is committed to providing quality automotive replacement parts. For information regarding product warranty, returns, or additional technical support, please visit the official Dorman brand store or contact Dorman customer service directly.

You can find more information and contact details on the Dorman brand store: [Dorman Brand Store](#).