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Dorman 645-693

Dorman 645-693 2 Wire Lighting Socket Instruction Manual

Model: 645-693 | Brand: Dorman

1. INTRODUCTION

This instruction manual provides comprehensive guidance for the Dorman 645-693 2 Wire Lighting Socket. It covers product features, specifications, installation procedures, and general maintenance to ensure optimal performance and longevity of the component. Please read this manual thoroughly before installation or use.

2. PRODUCT OVERVIEW

2.1 Key Features

- No special tools required for installation
- Easy to install
- Manufactured to strict engineering quality standards
- Constructed of high-quality materials for long-lasting durability

2.2 What's in the Box

- Dorman - PIGTAILS & SOCKETS (1 unit of Dorman 645-693 2 Wire Lighting Socket)

2.3 Product Images

Front view of the Dorman 645-693 2 Wire Lighting Socket, showing the gray plastic housing and electrical connector.

Side view of the Dorman 645-693 2 Wire Lighting Socket, highlighting its compact design.

Top-down view of the Dorman 645-693 2 Wire Lighting Socket, revealing the internal brass contact pins.

Another top view of the Dorman 645-693 2 Wire Lighting Socket, showing the overall shape and connection points.

3. SPECIFICATIONS

Attribute	Value
Manufacturer	Dorman Products
Brand	Dorman
Model	645-693
Item Weight	1.6 ounces
Product Dimensions	2.7 x 2.6 x 2.5 inches
Item Model Number	645-693
Exterior	Machined
Manufacturer Part Number	645-693
OEM Part Number	1P1497; 57-5277; 865; LS6599; PT5799; S-923; 3U2Z-14S411-DZA; F81Z-13411-BA
Position	Center
Lift Type	ON-OFF
Wattage	1E+2
Date First Available	January 13, 2011

4. VEHICLE COMPATIBILITY

The Dorman 645-693 2 Wire Lighting Socket is compatible with various vehicles. To confirm fitment for your specific vehicle, it is recommended to use a vehicle fitment tool or cross-reference with the OEM part numbers provided. Known compatible vehicles include:

- **Ford Edge:** 2007-2010
- **Ford Excursion:** 2000-2005
- **Ford Explorer:** 2002-2010
- **Ford F-250 Super Duty:** 2008-2016
- **Ford F-350 Super Duty:** 2008-2016
- **Ford F-450 Super Duty:** 2008-2016
- **Ford F-550 Super Duty:** 2008-2016
- **Ford Focus:** 2006-2011
- **Ford Fusion:** 2006-2010
- **Ford Ranger:** 1999-2011

- **Lincoln Blackwood:** 2002
- **Lincoln LS:** 2000-2006
- **Lincoln MKX:** 2007-2010
- **Lincoln MKZ:** 2007-2010
- **Lincoln Zephyr:** 2006
- **Mercury Mountaineer:** 2002-2010

5. SAFETY INFORMATION

Always prioritize safety when working on any vehicle's electrical system. Failure to follow proper safety procedures can result in injury or damage to the vehicle.

- Disconnect the vehicle's battery before beginning any electrical work to prevent accidental short circuits or electrical shock.
- Wear appropriate personal protective equipment, such as safety glasses and gloves.
- Ensure the vehicle is parked on a level surface and the parking brake is engaged.
- Allow hot components to cool before handling.
- If you are unsure about any step, consult a qualified automotive technician.

6. SETUP AND INSTALLATION

The Dorman 645-693 lighting socket is designed for straightforward installation without special tools. However, specific steps may vary depending on your vehicle's make and model. Always refer to your vehicle's service manual for precise instructions on accessing and replacing the lighting socket.

6.1 General Installation Steps

1. **Preparation:** Ensure the vehicle's ignition is off and the battery is disconnected. Access the area where the lighting socket is located (e.g., behind the headlight assembly, taillight assembly, or running board).
2. **Remove Old Socket:** Carefully twist and pull the old socket from the light assembly. Disconnect any wiring if it's a separate harness.
3. **Wire Connection (if applicable):** If replacing a pigtail-style socket, you may need to splice the new socket's wires to the vehicle's existing wiring. Match wire colors carefully (e.g., black to ground, colored wires to corresponding functions). Use appropriate electrical connectors (e.g., butt connectors) and heat shrink tubing for a secure and weather-resistant connection.
4. **Install New Socket:** Insert the new Dorman 645-693 socket into the light assembly, twisting it until it locks securely in place. Ensure the bulb (if not pre-installed) is properly seated in the socket.
5. **Test Functionality:** Reconnect the vehicle's battery. Test the light function (e.g., turn signals, brake lights, parking lights) to ensure the new socket is working correctly.
6. **Final Assembly:** Reassemble any removed panels or components.

6.2 Installation Reference Videos

Video demonstrating the features and general application of a 3157 bulb socket, similar to the Dorman 645-693. This video provides a visual overview of the product type and its stable, reliable design.

Video showcasing a front turn signal light socket for Ford vehicles, highlighting its premium ABS plug, brass conductor, and silicone O-ring for a tight seal. This demonstrates the quality features and plug-and-play installation for a similar product.

Video illustrating the installation process of a front turn signal light bulb plug socket, including removal of the old socket and insertion of the new one. This provides a practical visual guide for replacement.

Video demonstrating the physical characteristics of a turn signal light socket, showing its design and how it connects to a bulb. This offers a close-up view of the component's structure.

7. OPERATION

The Dorman 645-693 2 Wire Lighting Socket functions as a critical electrical connector for automotive lighting. It provides a secure and reliable connection between the vehicle's wiring harness and the light bulb, ensuring consistent power delivery for proper illumination. When installed correctly, it facilitates the intended operation of the connected light, such as a turn signal, brake light, or parking light.

8. MAINTENANCE

The Dorman 645-693 lighting socket is designed for durability and requires minimal maintenance. However, periodic inspection can help ensure its continued performance:

- **Visual Inspection:** Periodically check the socket and its connections for any signs of corrosion, melting, or damage.
- **Cleanliness:** Keep the socket free from dirt, moisture, and debris, which can interfere with electrical contact.
- **Secure Connection:** Ensure the socket remains firmly seated in the light assembly and that all wire connections are secure.

9. TROUBLESHOOTING

If you experience issues with your vehicle's lighting after installing or using the Dorman 645-693 socket, consider the following troubleshooting steps:

- **No Light:** Check the light bulb itself. Ensure it is correctly seated in the socket and is not burnt out. Verify that the vehicle's fuse for that lighting circuit is intact.
- **Intermittent Light:** Inspect the wiring connections for looseness or corrosion. Ensure the socket is fully twisted and locked into the light assembly.
- **Dim Light:** This could indicate a poor electrical connection or a partially failed bulb. Check for corrosion on the socket terminals or bulb contacts.
- **Melted or Burnt Socket:** This is often a sign of excessive current draw or a poor connection causing resistance and heat. Replace the socket and investigate the cause of the overheating (e.g., incorrect bulb wattage, short circuit).
- **Flickering Light:** Check for loose connections at the socket or within the wiring harness.

If issues persist after basic troubleshooting, it is advisable to consult a professional automotive technician.

10. WARRANTY AND SUPPORT

Dorman Products are engineered for quality and reliability. For specific warranty information or technical support, please refer to the official Dorman website or contact their customer service directly. You can also visit the [Dorman Store on Amazon](#) for more product details and support resources.

Related Documents - 645-693

	<p>Dorman Automotive Hardware Catalog: Comprehensive Fasteners and Components</p> <p>Explore the Dorman Automotive Hardware Catalog, featuring a wide range of fasteners, nuts, bolts, springs, and specialized tech trays for automotive repair and maintenance. Find part numbers and applications for efficient inventory and service.</p>
	<p>Dorman 601-037 Steering Column Lock Actuator Programming and Verification Guide</p> <p>Detailed instructions for programming and verifying the Dorman 601-037 Steering Column Lock Actuator, including safety precautions and troubleshooting tips.</p>
	<p>Chevrolet Silverado Interior Door Handle Installation and Removal Instructions</p> <p>Detailed instructions for installing and removing the interior door handle kit for Chevrolet Silverado models, including parts list and required tools.</p>
	<p>Dorman 917-327 Transmission Dipstick Tool: Installation Guide & Vehicle Compatibility</p> <p>Comprehensive guide for the Dorman 917-327 Transmission Dipstick Tool, covering installation steps, usage, and detailed vehicle compatibility for Dodge, Chrysler, Jeep, and Volkswagen models with various transmission types.</p>
	<p>Dorman 635-518 Engine Rear Main Seal Cover Removal and Installation Guide</p> <p>Comprehensive removal and installation instructions for the Dorman 635-518 Engine Rear Main Seal Cover. This guide provides step-by-step procedures, technical tips, and compatibility information for General Motors, Isuzu, Saab, and Workhorse vehicles.</p>



[Dorman 924-784 Mechanical Key Relearn Ignition Lock Cylinder Installation Instructions](#)

Detailed instructions for installing and coding the Dorman 924-784 Mechanical Key Relearn Ignition Lock Cylinder. Learn how to repin the cylinder to your existing key, including step-by-step guidance and safety precautions.