

Dorman 1610475

Dorman 1610475 Tail Light Assembly Instruction Manual

Model: 1610475 | Brand: Dorman

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Dorman 1610475 Tail Light Assembly. This product is designed as a direct replacement part for specific vehicle models, ensuring a proper fit and function. Please read this manual thoroughly before proceeding with any installation or maintenance to ensure safe and correct usage.

2. PRODUCT OVERVIEW

The Dorman 1610475 Tail Light Assembly is a critical automotive lighting component responsible for rear vehicle illumination, including running lights, brake lights, and potentially turn signals, depending on the vehicle's configuration. It is manufactured to strict engineering quality standards to ensure durability and reliable performance.



Figure 2.1: Front view of the Dorman 1610475 Tail Light Assembly. This image displays the primary red lens for tail and brake lights, along with a clear section for the reverse light.

Key Features:

- **Direct Replacement:** Engineered for a precise fit, ensuring seamless integration with your vehicle's existing structure and wiring.
- **Compliance:** Helps ensure your vehicle passes state inspections, avoiding potential tickets and fines related to faulty lighting.
- **No Special Tools Required:** Designed for straightforward installation, often requiring only common hand tools.
- **Quality Construction:** Manufactured according to stringent engineering quality standards for reliable and long-lasting performance.

3. SAFETY INFORMATION

Always prioritize safety when working on your vehicle. Failure to follow safety precautions can result in injury or damage to the vehicle.

- **Disconnect Battery:** Before beginning any electrical work, disconnect the vehicle's negative battery terminal to

prevent accidental short circuits or electrical shocks.

- **Wear Protective Gear:** Always wear appropriate personal protective equipment, such as safety glasses and gloves, to protect against debris and sharp edges.
- **Vehicle Stability:** Ensure the vehicle is parked on a level surface with the parking brake engaged. If lifting the vehicle, use appropriate jack stands.
- **Professional Assistance:** If you are unsure about any step of the installation process, it is recommended to seek assistance from a qualified automotive technician.
- **Handle with Care:** The tail light assembly contains delicate electrical components and a plastic lens. Handle it carefully to avoid damage.

4. INSTALLATION

The Dorman 1610475 Tail Light Assembly is designed for direct replacement, simplifying the installation process. No special tools are typically required beyond standard automotive hand tools.



Figure 4.1: Rear view of the Dorman 1610475 Tail Light Assembly. This image highlights the mounting points and the electrical connector

Installation Steps:

1. **Preparation:** Ensure the vehicle's ignition is off and the parking brake is engaged. Disconnect the negative terminal of the vehicle's battery.
2. **Access the Old Assembly:** Depending on your vehicle model, you may need to open the trunk or tailgate and remove any interior trim panels that obstruct access to the tail light assembly's mounting bolts or nuts.
3. **Remove Old Assembly:**
 - Locate and remove the mounting bolts or nuts securing the existing tail light assembly. These are typically accessible from inside the trunk or from the exterior.
 - Carefully pull the old assembly away from the vehicle body.
 - Disconnect the electrical connector(s) by pressing the release tab and pulling the connector apart.
4. **Install New Assembly:**
 - Connect the electrical connector(s) from the vehicle's wiring harness to the new Dorman 1610475 Tail Light Assembly. Ensure a secure connection.
 - Align the new assembly with the mounting points on the vehicle body.
 - Gently push the assembly into place, ensuring any alignment pins or clips engage correctly.
 - Secure the new assembly using the original mounting bolts or nuts. Tighten them firmly but do not overtighten.
5. **Test Functionality:**
 - Reconnect the vehicle's negative battery terminal.
 - Turn on the vehicle's ignition (do not start the engine).
 - Test all tail light functions: running lights, brake lights (with assistance), and turn signals (left and right).
 - Ensure all lights illuminate correctly and consistently.
6. **Reassemble Trim:** Reinstall any interior trim panels that were removed during the process.

5. OPERATION AND FUNCTIONALITY

The Dorman 1610475 Tail Light Assembly is a passive component that functions automatically with your vehicle's electrical system. Once correctly installed, it provides essential rear illumination for safety and compliance.

- **Running Lights:** Illuminate when the vehicle's headlights or parking lights are on, making the vehicle visible from the rear.
- **Brake Lights:** Activate when the brake pedal is pressed, signaling to following drivers that the vehicle is slowing down or stopping.
- **Reverse Lights:** (If applicable to your vehicle's configuration and this assembly) Illuminate when the vehicle is shifted into reverse, providing visibility and warning.
- **Turn Signals:** (If integrated into this assembly) Flash to indicate an intended turn or lane change.

The assembly is designed to provide consistent and reliable lighting output under normal operating conditions.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your tail light assembly.

- **Cleaning:** Periodically clean the outer lens with a soft cloth and mild automotive soap to remove dirt, grime, and

road salt. Avoid abrasive cleaners or harsh chemicals that could damage the plastic lens.

- **Inspection:** Regularly inspect the tail light assembly for any signs of cracks, moisture intrusion, or physical damage. Check for loose connections or corroded terminals.
- **Bulb Replacement:** While the assembly is designed for durability, individual bulbs (if replaceable within the assembly) may eventually burn out. Refer to your vehicle's owner's manual for specific bulb types and replacement procedures. Ensure the replacement bulb matches the original specifications.
- **Wiring Check:** Occasionally check the wiring harness connected to the assembly for fraying, cuts, or loose connections.

7. TROUBLESHOOTING

If you experience issues with your Dorman 1610475 Tail Light Assembly, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Tail light not illuminating	◦ Blown fuse ◦ Faulty bulb (if replaceable) ◦ Loose or disconnected electrical connector ◦ Damaged wiring	◦ Check and replace the relevant fuse in your vehicle's fuse box. ◦ Inspect and replace any burnt-out bulbs. ◦ Ensure the electrical connector is securely plugged into the assembly. ◦ Inspect wiring for damage; repair or replace as necessary.
Light is dim or flickering	◦ Corroded electrical connection ◦ Incorrect bulb wattage (if replaceable) ◦ Poor ground connection	◦ Clean electrical contacts with a wire brush or contact cleaner. ◦ Ensure correct bulb wattage is used. ◦ Check and secure the ground wire connection for the tail light circuit.
Moisture inside the lens	◦ Compromised seal ◦ Cracked lens	◦ If minor, moisture may dissipate. If persistent, the seal may be faulty. ◦ Inspect for cracks; a damaged assembly may need replacement.

If these steps do not resolve the issue, it is recommended to consult a professional automotive technician.

8. SPECIFICATIONS

Model Number	1610475
Brand	Dorman
Manufacturer	Dorman
Product Dimensions (L x W x H)	2.43 x 1.26 x 0.69 meters (242.93 x 125.6 x 69.24 cm)
Item Weight	1.41 Kilograms
Voltage	12 Volts
Wattage	35 watts

Position	Rear
Lens Material	Plastic
Assembly Required	No
OEM Part Number(s)	11-5477-00; 2222-0027R; CS087-U000R; 4857600AF
UPC	747214104758
Compatible Vehicle Models (Example)	Chrysler 2003-2001, Dodge 2003-2001 (Refer to product fitment guide for full compatibility)

9. WARRANTY AND SUPPORT

For information regarding the warranty coverage for your Dorman 1610475 Tail Light Assembly, please refer to the warranty documentation included with your purchase or visit the official Dorman website. Warranty terms and conditions may vary.

If you require technical assistance, have questions about product compatibility, or need to report an issue, please contact Dorman customer support directly or the retailer from whom you purchased the product. Have your model number (1610475) and purchase details ready when contacting support.

Dorman Official Website: www.dormanproducts.com (Note: This is a placeholder link, please verify the actual support URL.)

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