

Dorman 611-066

Dorman 611066 Wheel Nut Instruction Manual

Model: 611-066

1. INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and care of your Dorman 611066 Wheel Nut. Please read this manual thoroughly before installation to ensure safe and effective use.

The Dorman 611066 Wheel Nut is designed for secure fastening of wheels to vehicle hubs. It features an M12 - 1.50 standard thread, a 21mm hex size, and a 16mm length, made from alloy steel with a silver finish.

2. PRODUCT OVERVIEW



Image 2.1: A set of Dorman 611066 Wheel Nuts, showcasing their silver finish and hexagonal shape.



Image 2.2: Ten Dorman 611066 Wheel Nuts displayed in two rows, highlighting their uniform appearance.

The Dorman 611066 Wheel Nut is a critical component for vehicle safety, designed to secure the wheel assembly to the vehicle's hub. Key features include:

- **Thread Size:** M12 - 1.50 Standard, ensuring compatibility with many vehicle models.
- **Hex Size:** 21mm, for easy installation and removal with standard tools.
- **Length:** 16mm, providing adequate thread engagement.
- **Material:** Durable Alloy Steel for strength and longevity.
- **Finish:** Silver, for corrosion resistance and aesthetic appeal.

3. SETUP AND INSTALLATION

Proper installation of wheel nuts is crucial for vehicle safety. Always refer to your vehicle's service manual for specific torque specifications and procedures.

3.1. Preparation

- Ensure the vehicle is on a flat, stable surface and properly supported with jack stands.
- Remove the old wheel nuts and wheel.
- Inspect the wheel studs for damage, corrosion, or stripped threads. Clean any debris from the studs and wheel mounting surface.
- Ensure the new Dorman 611066 Wheel Nuts match the thread size and seat type of your vehicle's studs and wheels.

3.2. Installation Steps

1. Place the wheel onto the hub, aligning the bolt holes with the studs.
2. Hand-tighten each Dorman 611066 Wheel Nut onto its respective stud. Ensure they thread on smoothly without resistance. *Never force a wheel nut onto a stud, as this can cause cross-threading.*
3. Once all nuts are hand-tight, lower the vehicle until the tire just touches the ground, preventing the wheel from rotating while tightening.

4. Using a torque wrench, tighten the wheel nuts in a star or crisscross pattern to the manufacturer's specified torque. This ensures even pressure distribution and prevents wheel distortion.
5. Raise the vehicle, remove the jack stands, and fully lower the vehicle.
6. Perform a final check of the torque after driving approximately 50-100 miles (80-160 km) to ensure the nuts have not loosened.

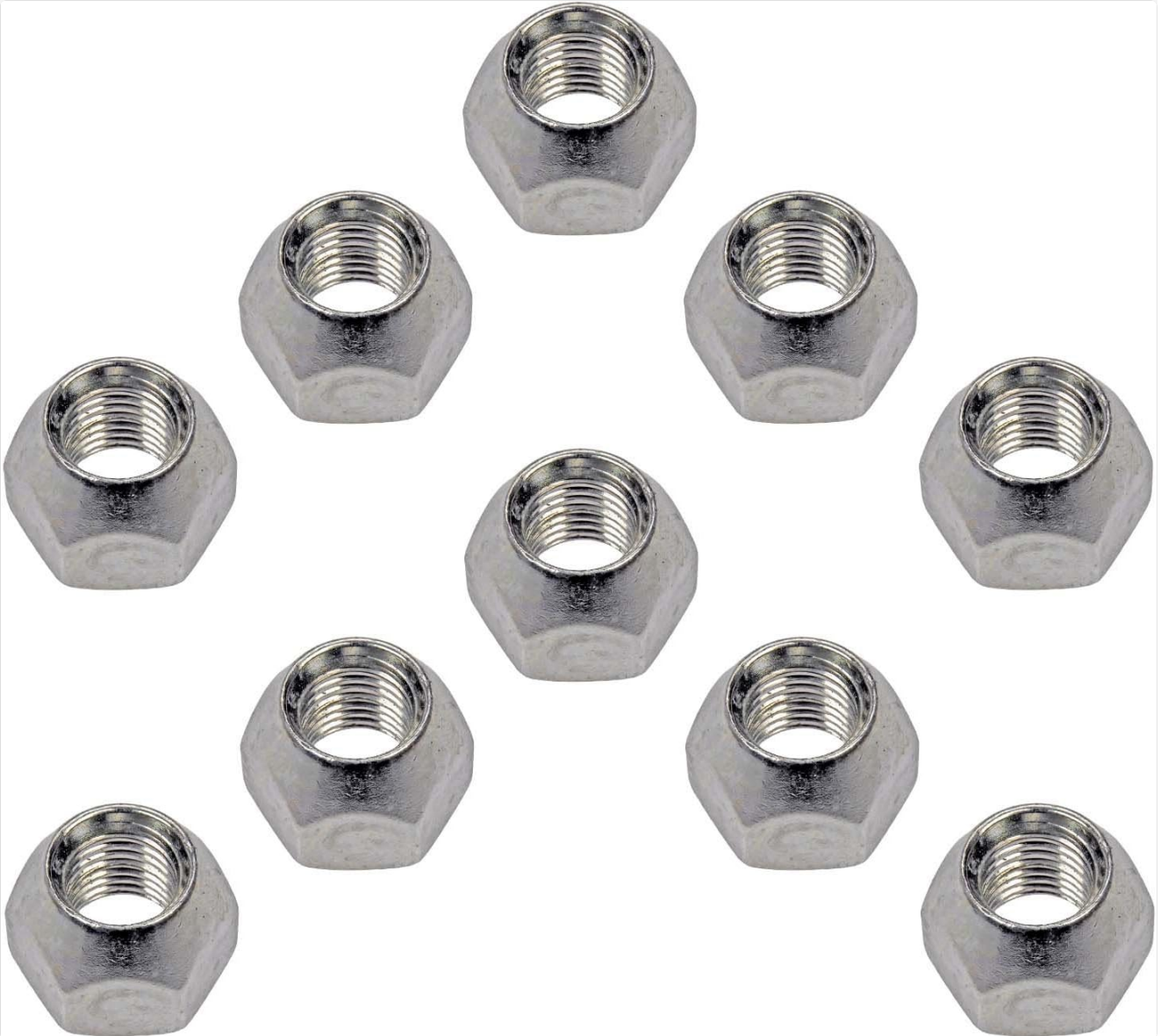


Image 3.1: A detailed view of a single Dorman 611066 Wheel Nut, showing the internal threading and hexagonal exterior.

4. OPERATING CONSIDERATIONS

While wheel nuts do not have "operating" functions in the traditional sense, their proper function is critical for vehicle operation. Adherence to correct installation and maintenance procedures ensures their optimal performance.

- Always use the correct size and type of wheel nut for your vehicle and wheel.
- Never use impact wrenches for final tightening, as this can lead to over-tightening and damage to the studs or nuts. Always use a torque wrench.
- Avoid lubricating wheel studs or nuts unless specifically recommended by the vehicle manufacturer, as this can lead to inaccurate torque readings and potential loosening.

5. MAINTENANCE

Regular inspection and proper maintenance extend the life of your wheel nuts and ensure vehicle safety.

- **Periodic Torque Check:** Re-check the torque of your wheel nuts periodically, especially after tire rotations, wheel changes, or after driving through severe road conditions.
- **Visual Inspection:** Before each installation, visually inspect each wheel nut for signs of damage, such as stripped threads, cracks, or corrosion. Replace any damaged nuts immediately.
- **Cleaning:** Keep wheel nuts clean and free of dirt, rust, or debris. Use a wire brush if necessary to clean threads, but avoid harsh chemicals that could damage the finish.

6. TROUBLESHOOTING

Common issues related to wheel nuts and their potential solutions:

Problem	Possible Cause	Solution
Wheel Nut Won't Thread On	Cross-threading, damaged stud threads, incorrect nut size/pitch.	Do not force. Remove nut, inspect stud and nut threads. If damaged, replace the stud or nut. Ensure correct size.
Wheel Nut Loosens After Driving	Improper torque, damaged wheel seat, stretched studs, debris on mounting surface.	Re-torque to specification. Inspect wheel and hub mating surfaces for debris or damage. Check studs for stretching.
Wheel Nut Difficult to Remove	Over-tightening, corrosion, seized threads.	Use appropriate leverage. Apply penetrating oil if seized. Avoid excessive force to prevent stud breakage.

7. SPECIFICATIONS

Detailed technical specifications for the Dorman 611066 Wheel Nut:

Attribute	Value
Fastener Type	Wheel
Thread Size	M12 - 1.50 Standard
Hex Size	21mm
Length	16mm
Color	Silver
Metal Type	Alloy Steel
Drive System	External Hex
Item Weight	0.7 Pounds (approx. 11.2 ounces)
Product Dimensions (L x W x H)	3.62 x 2.36 x 2.19 inches (packaging)
Manufacturer Part Number	611-066
UPC	019495611660

8. WARRANTY INFORMATION

For detailed warranty information regarding the Dorman 611066 Wheel Nut, please refer to the official Dorman website or contact Dorman customer support directly. Warranty terms and conditions may vary.

9. SUPPORT

If you require further assistance or have questions not covered in this manual, please contact Dorman customer support through their official channels. You can typically find contact information on the Dorman website or product packaging.

Dorman Official Website: www.dormanproducts.com

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Manual Version: 1.0