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Dorman 611-051

Dorman 611-051 Front Wheel Nut User Manual

Model: 611-051 | Brand: Dorman

1. INTRODUCTION

This user manual provides essential information for the proper installation, operation, and maintenance of your Dorman 611-051 Front Wheel Nuts. Designed to match the fit, function, and performance of original equipment hardware, these wheel nuts are engineered from durable materials for long service life and a perfect fit. Please read this manual thoroughly before installation to ensure safety and optimal performance.



Image 1.1: A single Dorman 611-051 Front Wheel Nut, showcasing its hexagonal shape and threaded interior.

2. PRODUCT OVERVIEW

The Dorman 611-051 Front Wheel Nuts are direct replacements for original equipment hardware. They are manufactured to strict specifications to ensure reliable performance and compatibility with specified vehicles.

2.1. Compatibility

This part is compatible with the following vehicles. For precise fitment, it is recommended to confirm your vehicle's make,

model, and trim level.

- **Ford P-350:** 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976
- **Ford P400:** 1967, 1968, 1969, 1970, 1971, 1972
- **Ford P-400:** 1975, 1976

2.2. What's in the Box

- 10 Wheel Lug Nuts



Image 2.1: A retail package of Dorman One-Piece Wheel Nuts, similar to the 611-051 model, indicating a 10-pack quantity.

3. SPECIFICATIONS

Specification	Detail
Brand	Dorman
Model Number	611-051
Material	Alloy Steel
Metal Type	Carbon Steel
Fastener Type	Wheel, Hex
Exterior Finish	Machined
Color	Silver
Item Weight	1.6 Pounds
Inside Thread Size	#5/8
Grade Rating	Regular
Thread Style	Right Hand
Head Style	Standard
Item Diameter	0.63 Inches
Compatible Groove Diameter	0.63 Inches
Number of Pieces	10

4. SETUP AND INSTALLATION


Proper installation of wheel nuts is crucial for vehicle safety. If you are unsure about any step, consult a qualified mechanic or refer to your vehicle's service manual.

4.1. Pre-Installation Checklist

- Ensure the vehicle is on a flat, stable surface and properly supported with jack stands.
- Remove the old wheel nuts and wheel.
- Inspect wheel studs for damage, corrosion, or stripped threads. Replace any damaged studs.
- Clean the wheel hub and mating surfaces to ensure proper seating.
- Confirm the new Dorman 611-051 wheel nuts match the thread size and seat type of your vehicle's studs and wheels.

4.2. Installation Steps

1. Place the wheel onto the hub, aligning the bolt holes with the wheel studs.
2. Hand-thread each Dorman 611-051 wheel nut onto its respective stud. Ensure they thread on smoothly without resistance. *Do not use power tools for initial tightening.*
3. Once all nuts are hand-tight, lower the vehicle until the tires just touch the ground, preventing the wheel from rotating while tightening.
4. Using a torque wrench, tighten the wheel nuts in a star pattern (cross-pattern) to the vehicle manufacturer's specified torque. This ensures even pressure and proper wheel seating.
5. Lower the vehicle completely and remove the jack stands.
6. After driving approximately 50-100 miles, re-check the torque of all wheel nuts to ensure they remain properly tightened. This is known as a "re-torque" and is a critical safety step.



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Image 4.1: Illustration of a wheel nut being tightened on a vehicle wheel. Always use a torque wrench for final tightening.

For a detailed installation guide, you may refer to the [Installation Manual \(PDF\)](#) provided by Dorman.

5. OPERATING (GENERAL USE)

Once installed, Dorman 611-051 Front Wheel Nuts function as a critical component in securing your vehicle's wheels. Regular checks are part of their "operation" to ensure continued safety.

5.1. Regular Checks

- Periodically inspect wheel nuts for any signs of looseness, damage, or corrosion.
- If you notice any unusual noises (e.g., clicking, rattling) coming from the wheels, pull over safely and inspect the wheel nuts immediately.
- Always ensure wheel nuts are properly torqued after any wheel removal or tire rotation.

6. MAINTENANCE

Proper maintenance extends the life of your wheel nuts and ensures vehicle safety.

- **Cleaning:** Keep wheel nuts clean from dirt, debris, and road salt, which can accelerate corrosion.
- **Lubrication:** *Do not lubricate wheel studs or nuts unless specifically recommended by the vehicle manufacturer.* Lubrication can lead to over-tightening and stud failure.
- **Inspection:** During tire rotations or brake inspections, visually check each wheel nut for signs of wear, rust, or deformation. Replace any nut that appears damaged.
- **Replacement:** If a wheel nut becomes difficult to thread or shows signs of stripping, replace it immediately. Using damaged nuts can lead to wheel detachment.

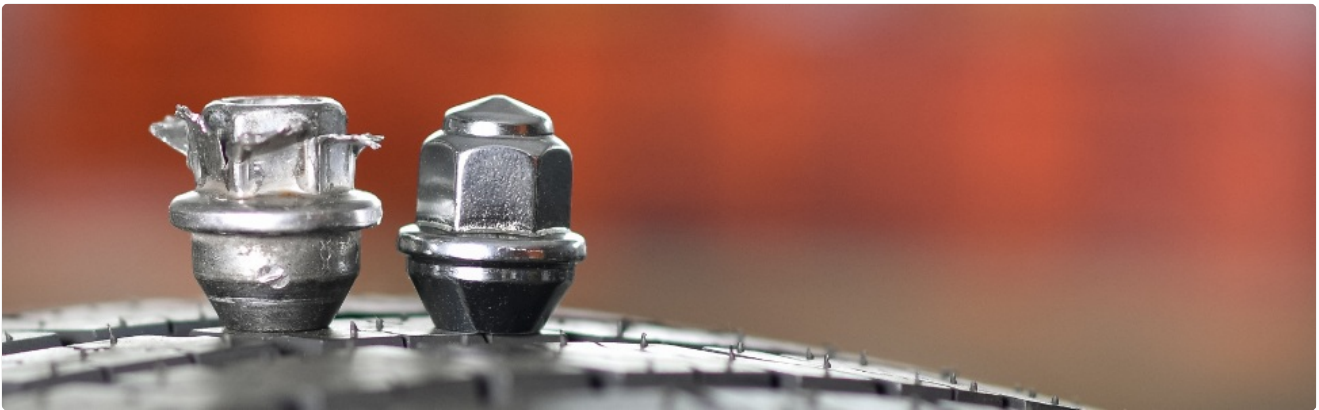


Image 6.1: A visual comparison showing a damaged, corroded wheel nut next to a new, pristine one, highlighting the importance of replacement.

7. TROUBLESHOOTING

This section addresses common issues related to wheel nuts.

7.1. Loose Wheel Nuts

- **Symptom:** Clicking or rattling noise from the wheel, wheel wobble, or steering vibration.
- **Possible Cause:** Improper torque during installation, wheel not seated correctly, or settling of components.
- **Solution:** Immediately pull over safely. Re-torque all wheel nuts to the manufacturer's specifications using a torque wrench. If the issue persists, have the vehicle inspected by a professional.

7.2. Stripped Threads

- **Symptom:** Wheel nut spins freely without tightening, or cannot be threaded onto the stud.
- **Possible Cause:** Cross-threading during installation, over-tightening, or damaged stud/nut.
- **Solution:** Replace both the stripped wheel nut and the damaged wheel stud. *Never force a nut onto a stud.*

7.3. Corrosion/Rust

- **Symptom:** Visible rust on nuts, difficulty removing or installing nuts.
- **Possible Cause:** Exposure to moisture, road salt, or chemicals; lack of proper cleaning.
- **Solution:** Clean affected areas. If corrosion is severe and compromises the integrity of the nut, replace it. Consider using anti-corrosion coatings on studs (if approved by vehicle manufacturer) or rust-resistant nuts in the future.

8. WARRANTY AND SUPPORT

Dorman products are backed by a commitment to quality and over a century of automotive experience.

8.1. Quality Assurance

Dorman wheel nuts are designed and manufactured to strict specifications for reliable performance. They are engineered to match the fit, function, and performance of the original equipment hardware on specified vehicles.

8.2. Customer Support

For any questions, concerns, or technical assistance regarding your Dorman 611-051 Front Wheel Nuts, please contact Dorman customer support. Our team of product experts in the United States is available to assist you.

Visit the official Dorman website for contact information and additional resources: www.dormanproducts.com