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> Dorman Motormite 611-228 Wheel Nut Instruction Manual

Dorman 611-228

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Your guide to proper installation, use, and care of your Dorman Wheel Nut.

PRODUCT OVERVIEW

The Dorman Motormite 611-228 is a high-quality wheel nut designed for secure attachment of vehicle wheels. It features an M12 - 1.75 thread size, a flanged flat face, a 19mm hex head, and a length of 38.82mm. Constructed from durable alloy steel with a silver painted finish, this wheel nut ensures reliable performance and a proper fit for compatible applications.



Figure 1: Side profile of the Dorman Motormite 611-228 Wheel Nut, highlighting its design and finish.



Figure 2: Angled view of the Dorman Motormite 611-228 Wheel Nut, illustrating the internal threading and the flanged contact surface.

SETUP AND INSTALLATION

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

1. **Safety First:** Ensure the vehicle is on a level surface, the parking brake is engaged, and appropriate jack stands are used to support the vehicle after lifting.
2. **Prepare Wheel Studs:** Clean any rust or debris from the wheel studs. Ensure threads are not damaged.
3. **Position Wheel:** Carefully place the wheel onto the wheel studs, ensuring it sits flush against the hub.
4. **Hand-Tighten Nuts:** Start each Dorman 611-228 wheel nut by hand to prevent cross-threading. Ensure the flanged flat face makes proper contact with the wheel.
5. **Snug in Star Pattern:** Using a lug wrench, snug the nuts in a star or crisscross pattern. This helps to seat the wheel evenly.
6. **Torque to Specification:** Lower the vehicle until the tires just touch the ground. Use a calibrated torque wrench to tighten each nut to the vehicle manufacturer's specified torque setting, following the star pattern. Do not overtighten.
7. **Final Check:** Once the vehicle is fully lowered, re-check the torque of all wheel nuts after driving approximately 50-100 miles.

OPERATION

The Dorman Motormite 611-228 Wheel Nut functions by securely fastening your vehicle's wheel to the hub assembly. Once properly installed and torqued, it maintains a consistent clamping force, preventing the wheel from detaching during vehicle operation. No active 'operation' is required from the user after installation, but periodic checks are recommended to ensure continued safety.

MAINTENANCE

Regular maintenance helps ensure the longevity and safety of your wheel nuts.

- **Periodic Inspection:** During tire rotations or brake inspections, visually inspect the wheel nuts for any signs of damage, corrosion, or wear. Replace any nut that appears compromised.
- **Cleanliness:** Keep the threads of both the wheel studs and the wheel nuts clean and free of dirt, rust, or foreign material. Do not lubricate wheel studs or nuts unless specifically instructed by your vehicle manufacturer.
- **Torque Verification:** Re-check the torque of your wheel nuts periodically, especially after any wheel removal or significant impact.

TROUBLESHOOTING

If you encounter issues with your wheel nuts, consider the following:

- **Loose Wheel Nut:** If a wheel nut becomes loose, re-torque it immediately to the manufacturer's specifications. If it repeatedly loosens, inspect the wheel stud and nut for damaged threads or improper seating.
- **Stripped Threads:** If a wheel nut or stud thread is stripped, it must be replaced. Do not attempt to force a nut onto a stripped stud, as this can lead to dangerous wheel detachment.
- **Difficulty Removing/Installing:** Ensure the correct size wrench or socket is being used. Check for cross-threading if a nut is difficult to turn. Never use excessive force that could damage the nut or stud.
- **Corrosion:** Significant corrosion can weaken the nut or cause it to seize. Replace corroded nuts.

If you are unsure about any issue, it is recommended to consult a qualified automotive technician.

SPECIFICATIONS

Property	Value
Material	Alloy Steel
Fastener Type	Flange
Thread Size	M12 - 1.75
Exterior Finish	Silver
Metal Type	Alloy Steel
Finish Type	Painted
Brand	Dorman
Item Weight	1.3 Pounds
Thread Type	Iso Metric
Inside Thread Size	M12 x 1 75
Thread Style	Metric, Right Hand
Thread Class	Coarse
Item Diameter	12 Millimeters

Property	Value
UPC	019495078555
Manufacturer	Dorman - Autograde
Manufacturer Part Number	611-228
OEM Part Number	XL3Z 1012-AA

WARRANTY INFORMATION

Specific warranty details for the Dorman Motormite 611-228 Wheel Nut are not provided in this manual. For information regarding product warranty, please refer to the original product packaging, the official Dorman website, or contact Dorman customer support directly. Keep your proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For further assistance, technical support, or inquiries regarding the Dorman Motormite 611-228 Wheel Nut, please contact Dorman customer service. You can typically find contact information on the Dorman official website or on the product packaging.

Dorman Official Website: www.dormanproducts.com