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World American WA07-5022

World American Wheel Lug Nut WA07-5022 Instruction Manual

Model: WA07-5022

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1. Introduction

This manual provides essential instructions for the proper installation, maintenance, and troubleshooting of your World American WA07-5022 Outer Right Hand Thread Wheel Lug Nut. Adhering to these guidelines will help ensure the safety and longevity of your wheel assembly.

The World American WA07-5022 is designed for specific automotive applications requiring an outer wheel lug nut with a 1-1/8"-16 right-hand thread. Always verify compatibility with your vehicle's specifications before installation.

2. Safety Information

- Always use appropriate personal protective equipment (PPE), such as safety glasses and gloves, when working on vehicle wheels.
- Ensure the vehicle is securely supported on jack stands before removing or installing wheels. Never rely solely on a jack.
- Use a calibrated torque wrench to tighten lug nuts to the manufacturer's specified torque values. Overtightening or undertightening can lead to serious safety hazards.
- Verify that the lug nut's thread size and type (right-hand thread) match the wheel stud. Incorrect matching can cause damage and wheel detachment.
- Inspect lug nuts and wheel studs for damage, corrosion, or stripped threads before installation. Replace any damaged components.
- After initial installation or wheel service, re-torque lug nuts after the first 50-100 miles of driving.

3. Product Overview

The World American WA07-5022 is a high-quality outer wheel lug nut designed for heavy-duty applications. It features a right-hand thread and is constructed from durable aluminum, ensuring reliable performance and corrosion resistance.



Figure 3.1: Top view of the World American WA07-5022 lug nut, showing the hexagonal head and internal right-hand threads.

This lug nut is specifically an "outer" type, meaning it is designed to secure the outer wheel in dual-wheel configurations or as specified by the vehicle manufacturer. Its 1-1/8"-16 thread specification indicates a diameter of 1-1/8 inches and 16 threads per inch.

4. Installation Instructions

4.1. Required Tools

- Vehicle Owner's Manual (for specific torque specifications)
- Jack and Jack Stands
- Wheel Chocks

- Lug Wrench or Socket Wrench with appropriate socket size
- Calibrated Torque Wrench
- Wire Brush (for cleaning wheel studs)

4.2. Preparation

1. Park the vehicle on a flat, level surface and engage the parking brake.
2. Place wheel chocks on the wheels opposite to the one being serviced.
3. Loosen the lug nuts slightly while the wheel is still on the ground.
4. Raise the vehicle using a jack and secure it with jack stands. Ensure the vehicle is stable.
5. Remove the existing lug nuts and wheel.
6. Clean any rust, dirt, or debris from the wheel studs using a wire brush. Ensure threads are clean and free of damage.

4.3. Lug Nut Installation



Figure 4.1: Angled view of the World American WA07-5022 lug nut, highlighting its shape and thread entry.

1. Carefully place the wheel onto the wheel studs, ensuring it is seated flush against the hub.
2. Thread the World American WA07-5022 lug nuts onto the wheel studs by hand. Ensure they turn freely and do not cross-thread. The WA07-5022 has a **right-hand thread**.
3. Once all lug nuts are hand-tight, lower the vehicle until the wheel just touches the ground, but the full weight is not on it.
4. Using a lug wrench or socket wrench, tighten the lug nuts in a star or crisscross pattern to snug them up.
5. Lower the vehicle completely to the ground.
6. Using a calibrated torque wrench, tighten each lug nut to the vehicle manufacturer's specified torque value, again following a star or crisscross pattern. Refer to your vehicle's owner's manual for the correct torque specification.

4.4. Post-Installation Check

After driving approximately 50-100 miles, re-check the torque of all lug nuts using a calibrated torque wrench. This is crucial as wheels can settle, and lug nuts may loosen slightly after initial use.

5. Maintenance

Proper maintenance of your lug nuts is vital for safety and performance.

- **Regular Inspection:** Periodically inspect lug nuts for signs of wear, corrosion, cracks, or deformation. Replace any damaged lug nuts immediately.
- **Thread Condition:** Ensure the threads on both the lug nut and the wheel stud are clean and free of damage. Never lubricate wheel studs or lug nut threads unless specifically instructed by the vehicle manufacturer, as this can lead to over-torquing and stud failure.
- **Torque Checks:** Re-torque lug nuts whenever a wheel is removed and reinstalled, and after the initial 50-100 miles of driving following any wheel service.
- **Cleaning:** Keep lug nuts clean from dirt, mud, and road salt, which can accelerate corrosion.

6. Troubleshooting

Problem	Possible Cause	Solution
Lug nut feels loose after driving	Improper initial torque; wheel settling; damaged threads.	Immediately pull over to a safe location. Re-torque all lug nuts to specification. If problem persists, inspect for damaged studs/nuts and replace as necessary.
Lug nut will not thread onto stud	Cross-threading; incorrect thread size/type; damaged stud/nut threads.	Do not force. Remove lug nut and inspect threads on both nut and stud. Ensure correct thread direction (right-hand). Replace damaged components.
Lug nut is stuck/difficult to remove	Corrosion; overtightening; damaged threads.	Apply penetrating oil and allow to soak. Use appropriate tools (e.g., breaker bar). If severely stuck or damaged, professional assistance may be required.
Vibration from wheel area	Loose lug nuts; improperly seated wheel; wheel imbalance.	Check and re-torque lug nuts. Ensure wheel is properly seated. If vibration persists, have wheels balanced and alignment checked by a professional.

7. Specifications

Feature	Detail
Model Number	WA07-5022
Brand	World American
Thread Style	Right Hand Thread
Thread Size	1-1/8"-16

Feature	Detail
Fastener Type	Lock Nut
Material	Aluminum
Metal Type	Aluminum
Item Weight	16 ounces (1 pound)
UPC	698231813294
Manufacturer Part Number	WA07-5022

8. Warranty and Support

Specific warranty information for the World American WA07-5022 lug nut is not provided in this document. Please refer to the original purchase documentation or contact World American directly for warranty details.

For product support, inquiries, or to explore other World American products, please visit the official **World American Store on Amazon**.

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