



Manuals.plus /

› Toyota /

› TOYOTA 90942-02052 Wheel Lug Stud Instruction Manual

Toyota 90942-02052

TOYOTA 90942-02052 Wheel Lug Stud Instruction Manual

Model: 90942-02052 | Brand: Toyota

INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and understanding of the TOYOTA 90942-02052 Wheel Lug Stud. Please read these instructions carefully before proceeding with any installation or service to ensure safety and correct application.

PRODUCT OVERVIEW

The TOYOTA 90942-02052 is an authentic Toyota replacement wheel lug stud designed for securing a wheel to a vehicle's hub. It is a critical component for vehicle safety and wheel integrity. This lug stud is manufactured to meet Toyota's specifications for fit, form, and function.



Image: A single TOYOTA 90942-02052 Wheel Lug Stud, silver in color, with a polished finish and threaded shaft, designed for securing a vehicle wheel.

Key Features:

- Genuine Toyota Part: Ensures compatibility and reliability.
- Durable Construction: Made from stainless steel with a polished finish for longevity.
- Precise Dimensions: Item Package Dimension: 3.18L x 0.98W x 0.98H inches.
- Standard Thread Size: 1/2-20 thread size for secure fastening.

SPECIFICATIONS

Brand	Toyota
Model Number	90942-02052
Part Name	Wheel Lug Stud
Material	Stainless Steel
Finish Type	Polished
Thread Size	1/2-20
Item Weight	0.01 ounces
Package Dimensions	3.19 x 0.98 x 0.98 inches
Number of Pieces	1

INSTALLATION GUIDELINES

Proper installation of a wheel lug stud is crucial for vehicle safety. If you are unsure about any step, it is recommended to consult a qualified automotive technician.

Required Tools:

- Jack and Jack Stands
- Lug Wrench or Breaker Bar with Socket
- Hammer or Mallet
- New Lug Stud (TOYOTA 90942-02052)
- Lug Nut (for installation aid)
- Torque Wrench
- Wire Brush (optional, for cleaning)
- Penetrating Oil (optional)

Safety Precautions:

- Always work on a flat, stable surface.
- Use jack stands to support the vehicle after lifting; never rely solely on a jack.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Ensure the vehicle is in park (automatic) or gear (manual) with the parking brake engaged.

Step-by-Step Installation:

1. **Prepare the Vehicle:** Loosen the lug nuts on the wheel requiring service while the vehicle is still on the ground.
2. **Lift and Secure:** Jack up the vehicle and place it securely on jack stands. Remove the wheel completely.
3. **Access the Hub:** Depending on the vehicle, you may need to remove the brake caliper and rotor to access the back of the wheel hub where the lug stud is pressed in.
4. **Remove Old Stud:** If replacing an old stud, use a hammer or mallet to carefully tap the old stud out from the back of the hub. Ensure the hub is supported to prevent damage.
5. **Clean the Area:** Clean any rust or debris from the lug stud hole on the hub using a wire brush.
6. **Install New Stud:** Insert the new TOYOTA 90942-02052 lug stud through the back of the hub.
7. **Seat the Stud:** Place a few washers over the new stud on the front side of the hub, followed by a lug nut (ensure the tapered side of the lug nut faces the washers). Tighten the lug nut with a wrench. This action will

pull the new stud firmly into place until its head is flush against the back of the hub. **Do not use an impact wrench for this step**, as it can damage the stud or hub.

8. **Verify Seating:** Once the stud is fully seated, remove the lug nut and washers. The stud head should be flush with the hub flange.
9. **Reassemble:** Reinstall the brake rotor and caliper (if removed).
10. **Reinstall Wheel:** Place the wheel back onto the hub. Hand-tighten the lug nuts.
11. **Lower Vehicle:** Lower the vehicle until the wheel just touches the ground, then tighten the lug nuts in a star pattern to the manufacturer's specified torque using a torque wrench.
12. **Final Torque:** Fully lower the vehicle and perform a final torque check on all lug nuts to the vehicle manufacturer's specifications.

Important: Always refer to your vehicle's service manual for specific torque specifications and procedures.

MAINTENANCE

Regular inspection of wheel lug studs is essential for safety and performance.

- **Visual Inspection:** Periodically inspect lug studs for signs of damage, corrosion, bending, or stripped threads. Replace any damaged studs immediately.
- **Torque Check:** After any wheel removal or installation, it is recommended to re-check lug nut torque after approximately 50-100 miles of driving. This ensures the lug nuts remain properly seated.
- **Cleaning:** Keep lug studs and lug nut threads clean and free of debris. Avoid applying grease or oil to lug stud threads unless specifically recommended by the vehicle manufacturer, as this can lead to over-torquing.

TROUBLESHOOTING

Addressing common issues related to wheel lug studs.

- **Stripped Threads:** If a lug nut cannot be tightened properly due to stripped threads on the stud, the lug stud must be replaced immediately. Attempting to force a lug nut onto stripped threads can lead to wheel detachment.
- **Broken Stud:** A broken lug stud indicates excessive stress or fatigue. It must be replaced. Never drive with a broken lug stud.
- **Loose Wheel:** If a wheel feels loose or you hear clicking/clunking noises, pull over safely and inspect the lug nuts and studs. Re-torque lug nuts to specification. If studs are damaged, replace them.
- **Difficulty Seating New Stud:** Ensure the hole in the hub is clean and free of burrs. Use the lug nut and washer method described in the installation section to pull the stud in squarely. Do not use excessive force that could damage the hub.

WARRANTY AND SUPPORT

This TOYOTA 90942-02052 Wheel Lug Stud is an original equipment manufacturer (OEM) part. For specific warranty information, please refer to the official Toyota warranty documentation provided with your vehicle or contact an authorized Toyota dealership.

For technical support or further assistance, please contact your local authorized Toyota service center or visit the official Toyota automotive parts website.

Toyota Official Parts & Accessories

