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> NPAUTO Wheel Lug Nuts 1/2" x20 Thread, Conical Bulge Seat, Closed End Bulge Acorn Spline 1.38" Tall 3/4" Hex Fit for Wrangler, Ford Explorer F-150 Mustang, Impala, Dodge Dakota (Pack of 23+2, Black) - Instruction Manual

NPAUTO KIT-10515

NPAUTO Wheel Lug Nuts Instruction Manual

Model: KIT-10515 | Brand: NPAUTO

1. INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and care of your NPAUTO Wheel Lug Nuts. These lug nuts are designed for secure wheel attachment, ensuring safety and performance for your vehicle. Please read these instructions carefully before installation.



Figure 1: NPAUTO Black Wheel Lug Nuts (Pack of 23+2) and Spline Keys.

2. PRODUCT FEATURES

NPAUTO Wheel Lug Nuts are engineered with quality materials and design for reliable performance:

- **Durable Construction:** Made from solid and tough alloy steel, offering enhanced durability and resistance to extreme temperatures.
- **Precision Fit:** Designed for OE-Like fitment, ensuring structural integrity and a perfect drop-in installation.
- **Corrosion Resistance:** Features a polished black exterior finish for improved resistance against wear, scratches, and oxidation.
- **Conical Bulge Seat:** Equipped with a 60-degree conical seat for secure and proper wheel alignment.
- **Easy Installation:** Direct factory replacement design facilitates a straightforward installation process.
- **Comprehensive Pack:** Includes 23+2 chrome black wheel lug nuts, providing spares for convenience.

Wear-Resistant & Scratch-Resistant
Smooth Chrome Surface & Anti-oxidation
Anti-Stripped & Stable Construction
Cold and Heat Resistant





Figure 2: Key features of NPAUTO Lug Nuts, including durability and resistance to environmental factors.

3. SPECIFICATIONS

Attribute	Detail
Thread Size	1/2"-20
Hex Size	3/4" (19mm)
Overall Length	1.38" (35mm)
Width	0.79" (20mm)
Seat Type	60-Degree Conical Bulge Seat
Material	Alloy Steel
Finish Type	Polished Black
Number of Pieces	25 (23+2)
Item Weight	2.38 pounds
Model Number	KIT-10515

Hex Size, 1.38" (35mm)

Overall Length, 0.75" (19.02mm) Width

60-Degree Cone



5 main components to identifying the correct lug nut

1. Thread Size
2. Thread Pitch
3. Seat Type
4. Length/Width
5. Finish/Color



Figure 3: Dimensional specifications of the NPAUTO Lug Nuts.

4. COMPATIBILITY

These NPAUTO 1/2"-20 lug nuts are compatible with a wide range of vehicles. Please verify your vehicle's specific lug nut requirements before purchase and installation.

Applicable Models (Including but not limited to):

- Jeep Wrangler (1997-2019)
- Ford Explorer
- Ford F-150
- Ford Mustang
- Chevrolet Impala
- Dodge Nitro
- Dodge Durango
- Dodge Dakota
- And more vehicles requiring 1/2"-20 thread size with a 60-degree conical seat.

Note: For OEM applications, always cross-reference the parameter and fitment details before ordering.



Figure 4: Examples of vehicle models compatible with NPAUTO Lug Nuts.

5. INSTALLATION INSTRUCTIONS

Proper installation of lug nuts is critical for vehicle safety. Always follow manufacturer's guidelines and use appropriate tools.

5.1 Identifying the Correct Lug Nut

Before installation, ensure you have the correct lug nuts for your vehicle's wheels. Key factors include:

1. **Thread Size:** Must match your vehicle's wheel studs (e.g., 1/2"-20).
2. **Thread Pitch:** Ensure the pitch is compatible.
3. **Seat Type:** Crucial for proper wheel seating (these lug nuts feature a 60-degree conical seat).
4. **Length/Width:** Verify dimensions for proper fitment and clearance.
5. **Finish/Color:** Aesthetic preference.

5 main components to identifying the correct lug nut

1. Thread Size
2. Thread Pitch
3. Seat Type
4. Length/Width
5. Finish/Color



Nut Dimensions

Figure 5: Key factors for selecting the correct lug nut.

5.2 Seat Type Verification

The seat type of the lug nut must match the seat type of your wheel. These NPAUTO lug nuts feature a **60-Degree Conical Bulge Seat** (also known as Acorn/Tapered Cone Seat). Using an incorrect seat type can lead to loose wheels and dangerous driving conditions.

SEAT Type: Please make sure the seat type is correct

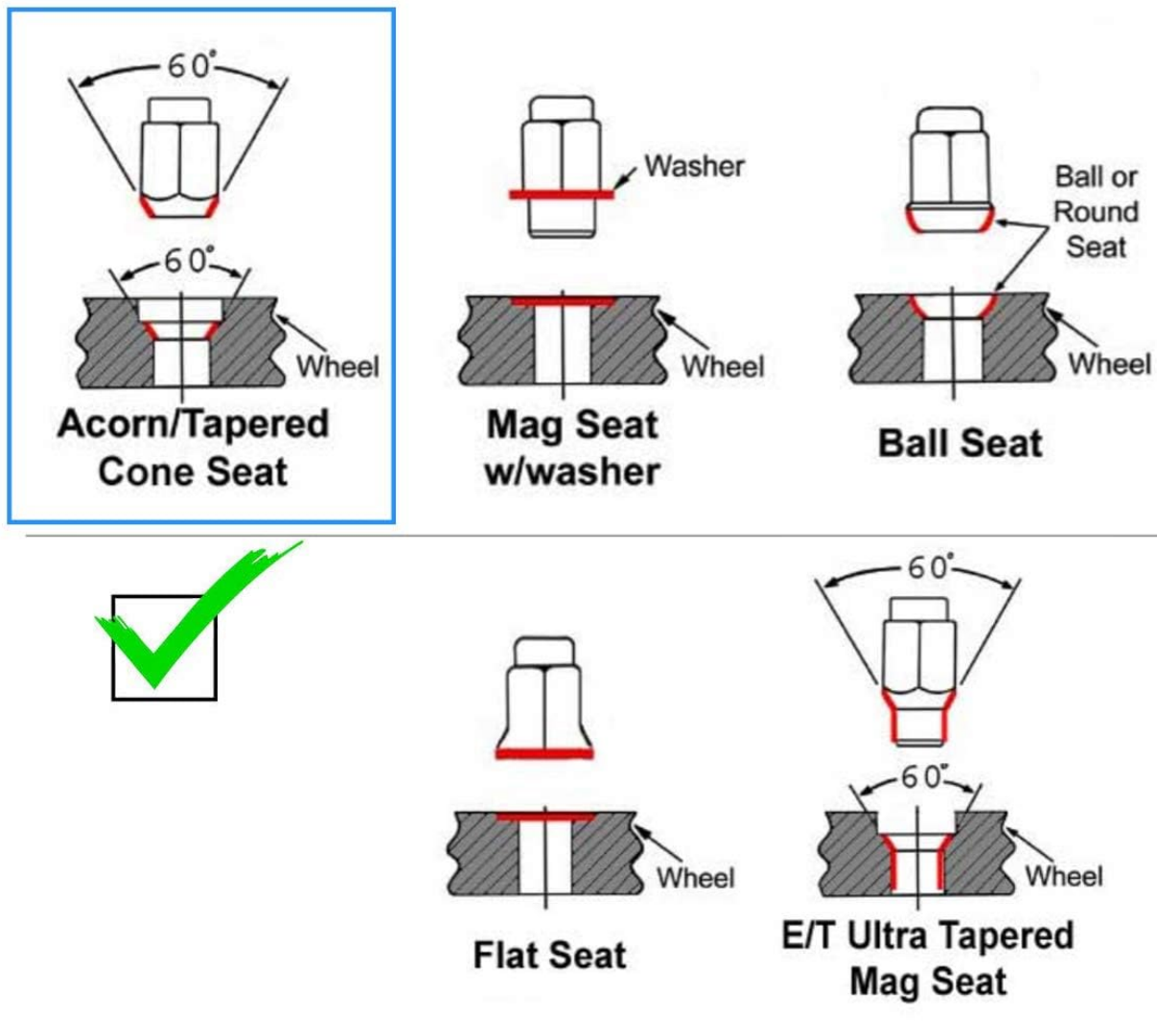


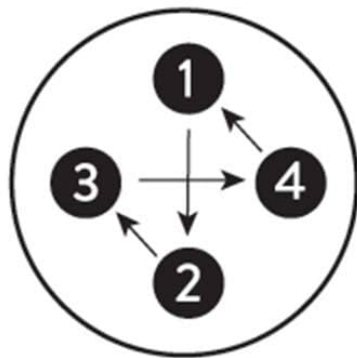
Figure 6: Ensure the lug nut seat type matches your wheel's seat type.

5.3 Tightening Procedure

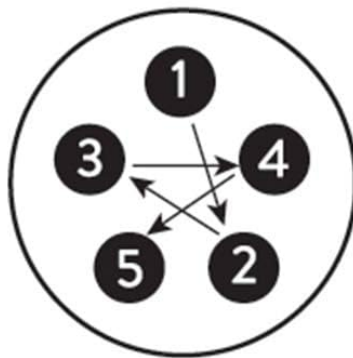
Always tighten lug nuts manually using a calibrated torque wrench. **DO NOT use electrical tools** for final tightening, as this can lead to over-tightening, stripped threads, or damage to the lug nuts and wheel studs.

1. Ensure the wheel is properly seated on the hub.
2. Start all lug nuts by hand to prevent cross-threading.
3. Tighten lug nuts in a star or crisscross pattern (as shown in Figure 7) to ensure even pressure and proper wheel seating.
4. Tighten to the vehicle manufacturer's specified torque settings using a torque wrench.
5. After driving approximately 50-100 miles, re-check the torque of all lug nuts to ensure they remain properly tightened.

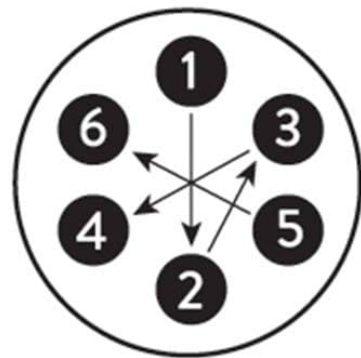
Wheel Lug Nut Installation Pattern



4 Lug Tightening Pattern



5 Lug Tightening Pattern



6 Lug Tightening Pattern

When installing lug nuts, it is recommended to tighten them manually with a calibrated torque wrench.



Figure 7: Recommended Lug Tightening Patterns and Tool Usage.

6. MAINTENANCE AND CARE

Proper maintenance extends the life and appearance of your lug nuts:

- **Regular Cleaning:** Clean lug nuts regularly with mild soap and water. Avoid harsh chemicals or abrasive cleaners that can damage the finish.
- **Inspection:** Periodically inspect lug nuts for any signs of damage, corrosion, or wear. Replace any damaged lug nuts immediately.
- **Rust Prevention:** While designed to be durable, exposure to harsh elements (road salt, excessive moisture) can affect the finish over time. Ensure lug nuts are dry after washing your vehicle. Consider applying a thin layer of non-corrosive protective wax or sealant if operating in severe conditions.
- **Avoid Impact Tools:** As mentioned in installation, avoid using impact wrenches for tightening or loosening, as this can chip the finish and lead to premature wear or rust.

7. TROUBLESHOOTING

Here are solutions to common issues you might encounter:

- **Lug Nut Key Breaks:** If the spline key breaks during use, contact NPAUTO customer support for a replacement. Avoid using damaged keys as they can strip the lug nut.
- **Lug Nuts Show Rust:** This can occur due to prolonged exposure to moisture or road salts, especially if the protective finish is compromised by impact tools or improper cleaning. Clean affected areas thoroughly and consider applying a rust inhibitor or replacing the affected lug nuts. Ensure proper drying after vehicle washes.
- **Lug Nuts Loosen After Installation:** This indicates improper torque during installation. Re-torque all lug nuts to the manufacturer's specifications using a calibrated torque wrench. Always re-check torque after initial driving.
- **Difficulty Threading Lug Nuts:** Ensure the lug nut's thread size and pitch match the wheel stud. Do not force the lug nut; this can indicate cross-threading or damaged threads on either the lug nut or the stud. Inspect both and replace if damaged.

8. WARRANTY AND SUPPORT

NPAUTO stands behind the quality of its products.

- **Warranty:** These lug nuts come with an **18-Months-warranty** from the date of purchase.
- **Lifetime Support:** NPAUTO provides lifetime support for this product.
- **Contact Us:** For any concerns, questions, or warranty claims, please feel free to contact NPAUTO customer service anytime. Refer to your purchase documentation for specific contact details or visit the official NPAUTO store on Amazon.

For more information and to explore other high-quality auto parts, visit the [NPAUTO Store on Amazon](#).