

LUG NUT SOCKET SET USER MANUAL



Read Carefully Before Use
Keep for Future Reference

Safety Information

! DANGER!

- The instructions provided herein are only for general information. ALWAYS perform all repairs in full compliance with your vehicle's service manual. After any repair, test your engine and vehicle in your workshop and at low speed before returning to normal use. Failure to do so may result in brake failure, serious property damage, and severe personal injury.
- **DO NOT** allow children or those unfamiliar with this product to use it. Do not use while under the influence of alcohol, drugs, or any medication that negatively affects your judgment or reflexes. Keep children and bystanders away during use.
- Keep your work site clean and well lit. Cluttered and dark work areas invite accidents.
- For best results, keep the kit clean and dry. Remove any fluid, oil, or grease before and after work, particularly from the sockets.
- **ALWAYS** use personal protective equipment (PPE) suitable to your task. Always wear ANSI-approved eye and hand protection while using this product. Nonslip footwear is also highly recommended. Other equipment such as ear, head, and body protection may also be necessary depending on your work and other equipment.
- Dress properly for automotive servicing. Do not wear loose clothing or jewelry and keep hair, clothing, gloves, hoses, and tools away from any moving parts during use.
- **ALWAYS** know and understand the specific safety warnings and instructions for your vehicle before using this kit. Use the correct fluids, pressures, adapters, etc. for your vehicle. Make sure the parking brake is activated before beginning any work. Use with jack and jack stands able to fully support the necessary weight. Never touch any heated surface with exposed skin.

- Do not overreach. Keep proper footing and balance at all times.
- **DO NOT** use excessive pressure with this product and do not force it.
- Maintain this product. Check for debris, grease, or wear before use. If any damage is detected, replace the faulty piece before further use. In a large shop, mark such tools **DO NOT USE** until they have been repaired.
- **ALWAYS** follow the instructions for impact or pneumatic tools.

Specifications

| | | | |
|--------------------------------|--------------|---------------------------------------------------|------------------|
| Case Dimensions | | 8.2×5.6×2 in. | 20.7×14.1×5.3 cm |
| Compatibility | | Manual, Impact, and Pneumatic | |
| Material | | Cr-Mo Steel, ABS Plastic | |
| B001 | | | |
| Pieces | | 5 | |
| Socket | Sizes | 17,19, 21 mm, 13/16, 7/8 in. | |
| | Drive | ½ in. | |
| Protective Cover Colors | | Blue, Yellow, Red, Green, Black | |
| B002 | | | |
| Pieces | | 4 | |
| Extension Bar | Size | ½ in. | |
| | Drive | ½ in. | |
| Socket | Sizes | 17 & 19, 21 & 22 mm, 13/16 & 3/4, 7/8 & 15/16 in. | |
| | Drive | ½ in. | |
| Protective Cover | | N/A | |
| B003 | | | |
| Pieces | | 3 | |
| Socket | Sizes | 17, 19, 21 mm | |
| | Drive | ½ in. | |
| Protective Cover Colors | | Blue, Green, Red | |

Parts List

Lug Nut Sockets × 5 /Lug Nut Flip Socket × 4, Extension Bar × 1/ Thin Wall Lug Nut Socket × 3
Storage Case × 1

Operation

1. Park the car on a level surface and engage the parking brake. Refer to your vehicle's service manual to determine the correct socket size. The plastic protective cases on B001 and B003 sockets are designed to prevent any damage to the area around the lug nut on your hub. If the socket doesn't fit, remove the case by turning it counterclockwise. For B002, insert the end of the extension bar with a ball bearing into the chosen socket. They will lock tightly when you hear a distinct "click."
2. If your car has a hubcap, remove it carefully to avoid damaging its fasteners. Locate the lug nuts.
3. Check for any locking nuts among the lug nuts. If present, use the key designed for the locking nuts to loosen them.
4. Attach the selected socket or the other end of the extension bar to a ½-inch manual or impact wrench, or to a pneumatic or cordless nutrunner.
5. Position the socket precisely onto the lug nut you intend to remove. Follow the appropriate protocols for using torque wrenches, impact tools, or pneumatic tools.
6. Start loosening the lug nuts while the car is still on the ground. Before lifting the car with a jack, attempt to loosen the lug nuts using the resistance provided by the tire's contact with the ground. The nuts will be easier to remove since they won't spin while on the ground.



It is recommended to loosen the nuts in a "star" pattern, skipping the lug nut adjacent to the one you just loosened. This pattern helps keep the wheel centered and is especially important when installing the wheel.

7. Once all the lug nuts are loose, lift the car with a jack, remove the lug nuts completely by hand, and then remove the wheel to proceed with your intended task.



Warning! If your task requires more than simply replacing the wheel with a spare or new wheel, it is essential to use a frame stand to support the car until the project is complete.

8. After servicing your vehicle, reassemble the parts and retighten the nuts by following the same steps in reverse order.



Warning! Always tighten the nuts according to the torque specifications provided in your owner's manual. To prevent over-tightening, ensure that the torque applied by your tools matches the specific torque requirements of your lug nuts.

9. Replace the protective cases for B001 and B003 sockets or disassemble the extension bar and socket for B002. Store them back in the storage box.

Maintenance

- Clean the tools with a soft damp cloth using a mild detergent or solution after use. Do not rinse them or use abrasive cleaners or caustic chemicals.
- Check the tools periodically for any wear or damage. Repair or replace any problematic piece before further use.
- If the tools will not be used for an extended period of time, clean and lubricate them and store them in a cool dry place inaccessible to children.

Contact Us

Thank you for choosing our products! If you have any questions or comments, contact us at support@orionmotortech.com and we'll resolve your issue ASAP!

For a .pdf copy of the latest version of these instructions, use the appropriate app on your smartphone to scan the QR code to the right.



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