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› NEIKO /

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Model: 02531A

INTRODUCTION

This manual provides essential information for the safe and effective use of your NEIKO 02531A 10-Piece 1/2-inch Drive Metric Axle Nut Socket Set. Please read these instructions carefully before use and retain them for future reference.

PRODUCT OVERVIEW

The NEIKO 02531A Axle Nut Socket Set is designed for high torque applications on various automotive components. It includes a range of metric 12-point sockets and an impact adapter, all constructed from durable Chrome Molybdenum Steel with a black phosphate coating for longevity.



Figure 1: Complete NEIKO 02531A 10-Piece Axle Nut Socket Set, showing all 9 sockets and the 3/4" to 1/2" impact adapter.

PACKAGE CONTENTS

Verify that all items listed below are present and undamaged upon opening the package:

- 9 x 1/2" Drive 12-Point Metric Axle Nut Sockets: 29mm, 30mm, 32mm, 33mm, 34mm, 35mm, 36mm, 38mm, 39mm
- 1 x 3/4" to 1/2" Drive Impact Adapter
- 1 x Durable Blow-Molded Carrying Case



Figure 2: The NEIKO 02531A Axle Nut Socket Set neatly organized within its robust red blow-molded carrying case.

SAFETY INFORMATION

Always observe the following safety precautions when using this tool set:

- Wear appropriate personal protective equipment, including safety glasses, to protect against flying debris.
- Ensure the vehicle or component is securely supported before beginning work.
- Use the correct size socket for the fastener to prevent damage to the fastener or socket.
- Do not use damaged or worn sockets. Inspect tools before each use.
- When using an impact wrench, ensure it is set to the correct torque and direction.
- Keep hands and clothing clear of moving parts.

OPERATING INSTRUCTIONS

1. Selecting the Correct Socket

Identify the size of the axle nut or fastener you need to remove or install. Select the corresponding metric socket from the set (29mm to 39mm). The sockets feature high-contrast laser-etched markings for easy identification.



Figure 3: Detailed view of the sockets, highlighting the clear laser-etched size markings for quick selection.

2. Attaching to Drive Tool

All sockets in this set are designed for a 1/2-inch drive. Firmly attach the selected socket to your 1/2-inch drive ratchet, breaker bar, or impact wrench. For 3/4-inch drive tools, use the included 3/4" to 1/2" impact adapter.

3. Application

These sockets are suitable for removing and installing axle nuts, spindle nuts, wheel bearings, CV axles, steering knuckles, and hub assemblies. The 12-point design provides a secure grip on both 6-point and 12-point fasteners.

1. Position the socket squarely onto the fastener, ensuring full engagement.
2. Apply steady, controlled force. For stubborn fasteners, an impact wrench is recommended due to the sockets' impact-rated design.
3. When tightening, refer to the vehicle manufacturer's torque specifications and use a torque wrench if required.

MAINTENANCE

Proper maintenance ensures the longevity and performance of your socket set:

- **Cleaning:** After each use, wipe down sockets and the adapter to remove dirt, grease, and debris. A clean cloth is usually sufficient. For heavy grime, use a mild degreaser and dry thoroughly.
- **Storage:** Store the sockets and adapter in the provided blow-molded carrying case. This protects them from damage, corrosion, and keeps them organized.
- **Corrosion Protection:** The black phosphate coating provides excellent corrosion resistance. Avoid exposing the tools to excessive moisture or harsh chemicals for prolonged periods.
- **Inspection:** Periodically inspect each socket for signs of wear, cracks, or damage. Replace any damaged tools immediately to prevent injury or further damage to fasteners.

TROUBLESHOOTING

Here are solutions to common issues you might encounter:

- **Socket does not fit the fastener:** Double-check the fastener size and ensure you have selected the correct metric socket. Clean any rust or debris from the fastener that might prevent proper seating.
- **Fastener is stuck or difficult to remove:** Apply a penetrating oil to the fastener and allow it to soak. Use a breaker bar for increased leverage before resorting to an impact wrench. Ensure your impact wrench has sufficient torque for the application.
- **Socket slips on the fastener:** Ensure the socket is fully seated on the fastener. If slipping persists, the fastener or socket may be worn. Replace worn components as necessary.
- **Socket breaks or cracks:** This indicates excessive force or a manufacturing defect. Discontinue use immediately and contact NEIKO customer support.

SPECIFICATIONS

Feature	Specification
Brand	NEIKO
Model Number	02531A
Material	Chrome Molybdenum Steel
Finish Type	Black Phosphate Coating
Number of Pieces	10 (9 sockets, 1 adapter)
Drive Size	1/2 inch (with 3/4 inch adapter)
Socket Type	12-Point
Metric Socket Sizes	29mm, 30mm, 32mm, 33mm, 34mm, 35mm, 36mm, 38mm, 39mm
Item Weight	6.14 Kilograms

WARRANTY AND SUPPORT

For warranty information, technical support, or to inquire about replacement parts, please contact NEIKO customer service directly. Refer to the product packaging or the official NEIKO website for current contact details.