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> NEIKO 00257 Socket Adapter Extension Drill-Bit Set User Manual

NEIKO 00257

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Model: 00257 | Brand: NEIKO

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your NEIKO 00257 Socket Adapter Extension Drill-Bit Set. Please read this document thoroughly before using the product to ensure proper operation, maximize product lifespan, and prevent potential hazards. This set is designed to convert power drills into high-speed nut drivers, offering versatility for various mechanical and construction tasks.

2. PRODUCT OVERVIEW

The NEIKO 00257 Socket Adapter Extension Drill-Bit Set is a 9-piece collection of adapters and extensions crafted from heat-treated chrome-vanadium steel for enhanced durability. This set includes various drive sizes to accommodate a wide range of sockets and applications.

2.1 Components Included

- Four 1/4-inch Hex to Square Drive Adapters
- Two 3/8-inch Hex to Square Drive Adapters
- Two 1/2-inch Hex to Square Drive Adapters
- One 60 mm Magnetic Bit Extension with 1/4-inch bit end attachment

2.2 Key Features

- Material:** Constructed from heat-treated Chrome Vanadium Steel for strength and longevity.
- Secure Hold:** Spring-loaded ball bearings on each square head securely lock into sockets, preventing slippage.
- Chamfered Ends:** Designed to reduce wear and tear, preserving the life of each piece.
- Universal Fit:** Compatible with most heavy-duty power tools, including drills, screwdrivers, and hand wrenches.



Figure 1: The complete NEIKO 00257 Socket Adapter Extension Drill-Bit Set, showcasing all 9 pieces including 1/4-inch, 3/8-inch, and 1/2-inch drive adapters, and a magnetic bit holder.

COMPLETE SET

Save time and money with this handy set
that includes a magnetic bit holder for multiple applications

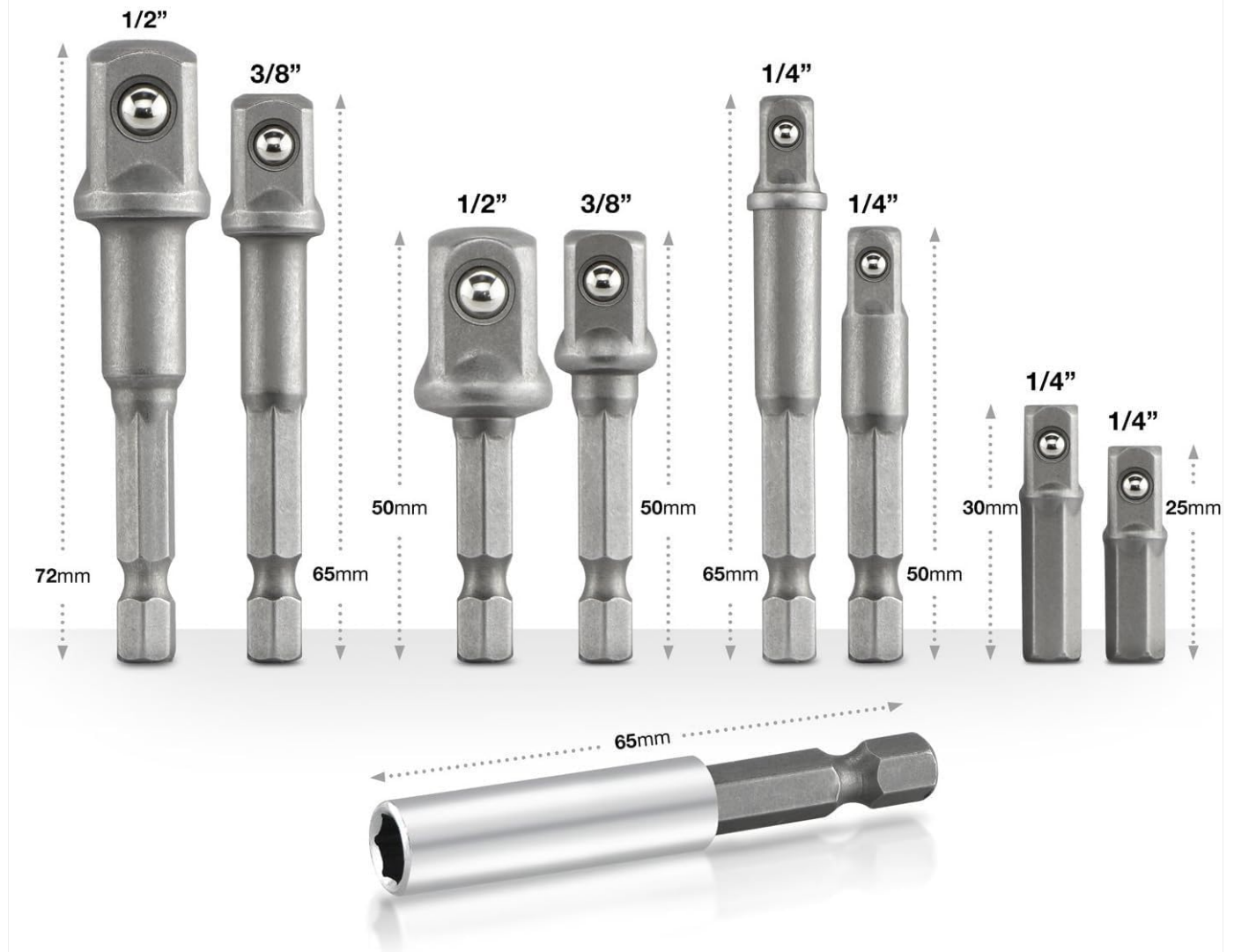


Figure 2: Detailed view of the socket adapters and magnetic bit holder, illustrating their various sizes and lengths for different applications.

3. SAFETY INFORMATION

Always prioritize safety when working with tools. Failure to follow safety guidelines can result in injury or damage to property.

- **Eye Protection:** Always wear ANSI-approved safety goggles or safety glasses with side shields when operating power tools or using these adapters.
- **Proper Tool Selection:** Ensure the correct size adapter and socket are used for the fastener to prevent stripping or damage.
- **Secure Workpiece:** Always secure the workpiece in a vise or with clamps to prevent movement during operation.
- **Power Tool Safety:** Disconnect power tools from the power source before changing accessories or performing maintenance.
- **Inspect Tools:** Before each use, inspect adapters and sockets for any signs of wear, cracks, or damage. Do not use damaged tools.
- **California Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

4. SETUP

Setting up the socket adapters is a straightforward process, allowing you to quickly convert your power tools for various tasks.

1. **Select the Correct Adapter:** Choose the appropriate hex to square drive adapter (1/4-inch, 3/8-inch, or 1/2-inch) that matches the drive size of your socket.
2. **Insert into Power Tool:** Insert the hex end of the adapter into the chuck of your power drill or impact driver. Ensure the adapter is fully seated and securely tightened in the chuck.
3. **Attach Socket:** Align the square drive end of the adapter with the corresponding square opening on your socket. Push the socket onto the adapter until the spring-loaded ball bearing locks it securely in place.
4. **Magnetic Bit Holder:** For using 1/4-inch hex bits, insert the magnetic bit holder into your power tool's chuck, then insert the desired 1/4-inch hex bit into the magnetic end of the holder.

5. OPERATING INSTRUCTIONS

Once the adapters are properly set up, they can be used to efficiently drive or remove fasteners.

1. **Verify Connection:** Before operating, gently pull on the socket to ensure it is firmly locked onto the adapter by the spring-loaded ball bearing.
2. **Align with Fastener:** Position the socket squarely onto the head of the fastener (nut or bolt).
3. **Apply Power:** Slowly start your power drill or driver, applying steady pressure. Increase speed as needed, maintaining control. Avoid excessive force or angled driving, which can damage the fastener or tool.
4. **Removing Fasteners:** For removal, ensure the power tool is set to reverse rotation.
5. **Using with Hand Tools:** The adapters can also be used with hand wrenches or screwdrivers that accept hex bits, providing flexibility for tasks where power tools are not suitable or available.



HIGH VERSATILITY

Turn your hand or power drill into a driver
with these versatile adaptors

Figure 3: An adapter securely fitted into a power drill, demonstrating its use for driving fasteners. The image highlights the versatility of the set in converting standard drills into nut drivers.



Figure 4: The socket adapter being used in an automotive repair scenario, illustrating its practical application in tight spaces and for various mechanical tasks.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your NEIKO socket adapter set.

- **Cleaning:** After each use, wipe down the adapters with a clean, dry cloth to remove dirt, grease, or debris. For stubborn grime, a mild solvent can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a light coat of machine oil to the spring-loaded ball bearings to ensure smooth operation and prevent corrosion.
- **Storage:** Store the set in a dry, clean environment, preferably in its original packaging or a tool organizer, to protect it from moisture and physical damage.
- **Inspection:** Regularly inspect each adapter for signs of wear, such as rounding of the square drive, cracks in the steel, or a weakened ball bearing. Replace any damaged components immediately to prevent injury or damage to fasteners.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with the socket adapter set.

- **Socket Slippage:** If a socket slips off the adapter during use, ensure the socket is fully engaged with the spring-loaded ball bearing. Inspect the ball bearing for damage or excessive wear. Ensure the socket's square opening is not worn or oversized.
- **Adapter Not Fitting in Chuck:** Verify that your power tool's chuck is compatible with 1/4-inch hex shanks. Ensure the adapter's hex shank is clean and free of debris.
- **Fastener Stripping:** This is often caused by using the wrong size socket, applying excessive force, or driving at an angle. Ensure the correct socket size is used and maintain a straight approach to the fastener.
- **Excessive Wear:** While made from durable CrV steel, prolonged heavy use can lead to wear. Regular inspection and replacement of worn adapters will maintain performance and safety.

8. SPECIFICATIONS

Specification	Detail
Model Number	00257
Material	Chrome Vanadium Steel
Number of Pieces	9
Drive Sizes Included	1/4-inch, 3/8-inch, 1/2-inch
Magnetic Bit Holder Length	60 mm
Item Weight	0.01 ounces
UPC	816914021778

9. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please contact NEIKO customer service directly or visit the official NEIKO store online.

Official NEIKO Store: [Visit the NEIKO Store](#)

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