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› OEMTOOLS 23563 12-Pc Extra Long Hex Socket Set (SAE) User Manual

OEMTOOLS 23563

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User Instruction Manual

INTRODUCTION

The OEMTOOLS 23563 12 Piece Extra Long Hex Bit Socket Set (SAE) is designed to provide the necessary reach and torque for fasteners located in tight or recessed areas. This set is suitable for various automotive, mechanical, and home repair applications. Constructed from durable S2 steel bits and reinforced chrome vanadium steel sockets, it ensures reliable performance and longevity. The set features a corrosion-resistant finish for extended tool life.



Figure 1: The OEMTOOLS 23563 12-Pc Extra Long Hex Socket Set, including the green storage case and all 12 hex bit sockets arranged

in a semicircle.

PRODUCT OVERVIEW

This hex bit socket set is engineered for durability and efficiency. Key features include:

- **Extended Reach Design:** Sockets are extra long to access deep or tight spaces without compromising torque or stability.
- **Durable S2 Steel Bits:** Heat-treated S2 steel bits offer exceptional hardness and resistance to wear, ensuring long-term performance.
- **High Torque Chrome Sockets:** Reinforced chrome vanadium steel sockets provide increased turning power for efficient work on various fasteners.
- **Corrosion-Resistant Finish:** Features fully refined hard chrome plating and zinc phosphate bit treatment to protect against rust and corrosion.
- **Versatile Drive Compatibility:** Compatible with both 1/4 inch and 3/8 inch drive tools, covering SAE sizes from 1/16 inch to 3/8 inch.



Figure 2: The durable green storage case, opened to display the organized arrangement of the 12 extra long hex bit sockets, ensuring easy

SETUP

The OEMTOOLS 23563 Hex Socket Set comes ready for immediate use. Follow these steps to prepare your tools:

1. **Unpack the Set:** Carefully remove the hex socket set from its packaging.
2. **Inspect Components:** Open the green storage case and verify that all 12 hex bit sockets are present and free from any visible damage. Refer to the "Specifications" section for a list of included sizes.
3. **Familiarize Yourself:** Identify the different SAE sizes (1/16" to 3/8") and their corresponding drive sizes (1/4" or 3/8"). The case is designed to keep them organized.

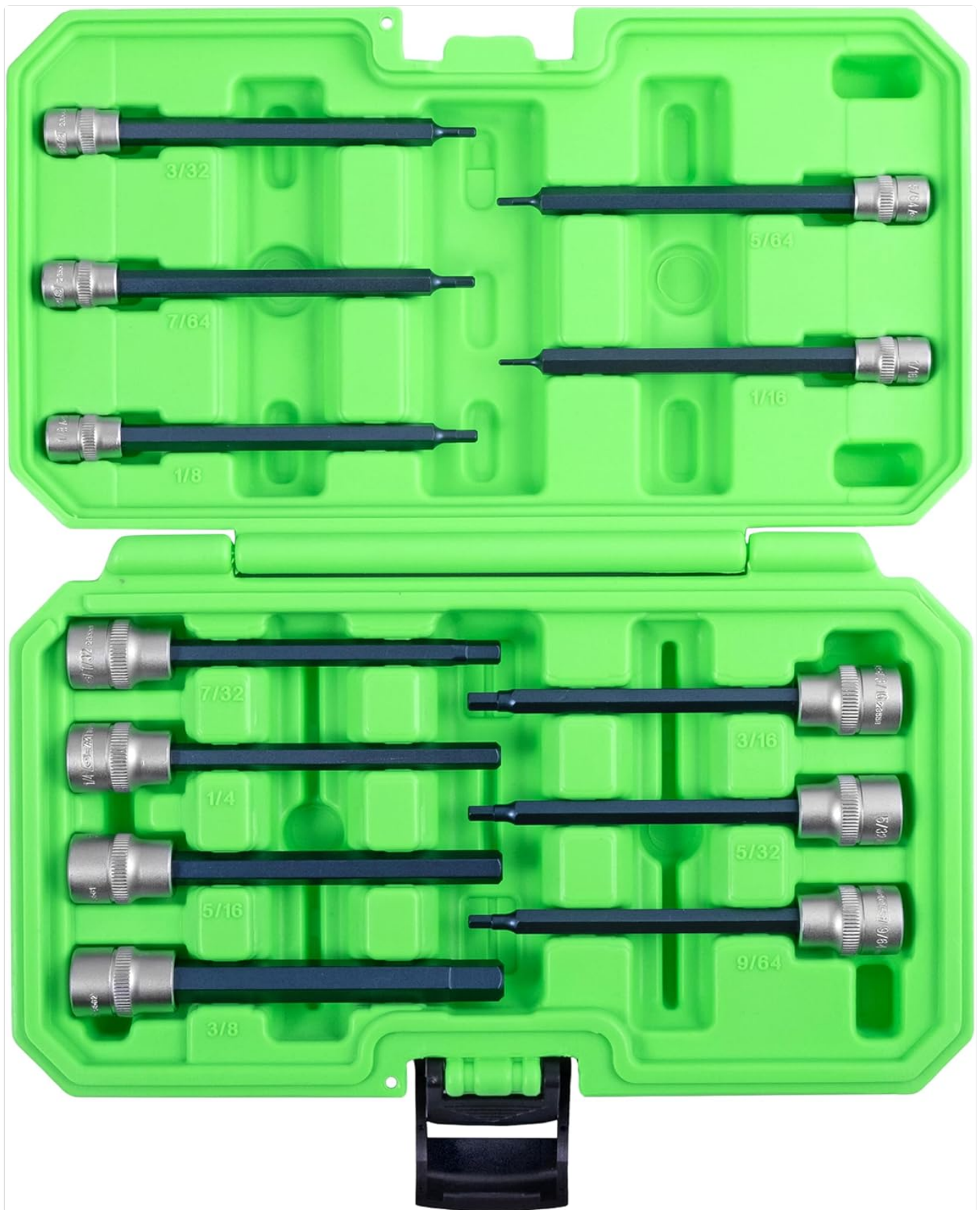


Figure 3: A detailed view of the open storage case, showcasing the precise cutouts for each hex bit socket and clearly labeling their respective SAE sizes for quick identification.

OPERATING INSTRUCTIONS

Using the OEMTOOLS 23563 Hex Socket Set is straightforward. Always ensure you select the correct size and drive tool for the task.

1. **Select the Correct Size:** Identify the hex fastener you need to work with and choose the corresponding SAE hex bit

socket from the set. The sizes are clearly marked on each socket and within the storage case.

2. Choose the Appropriate Drive Tool:

- For smaller hex bit sockets (1/16", 5/64", 3/32", 7/64", 1/8"), use a 1/4 inch drive ratchet, breaker bar, or power tool adapter.
- For larger hex bit sockets (9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"), use a 3/8 inch drive ratchet, breaker bar, or power tool adapter.

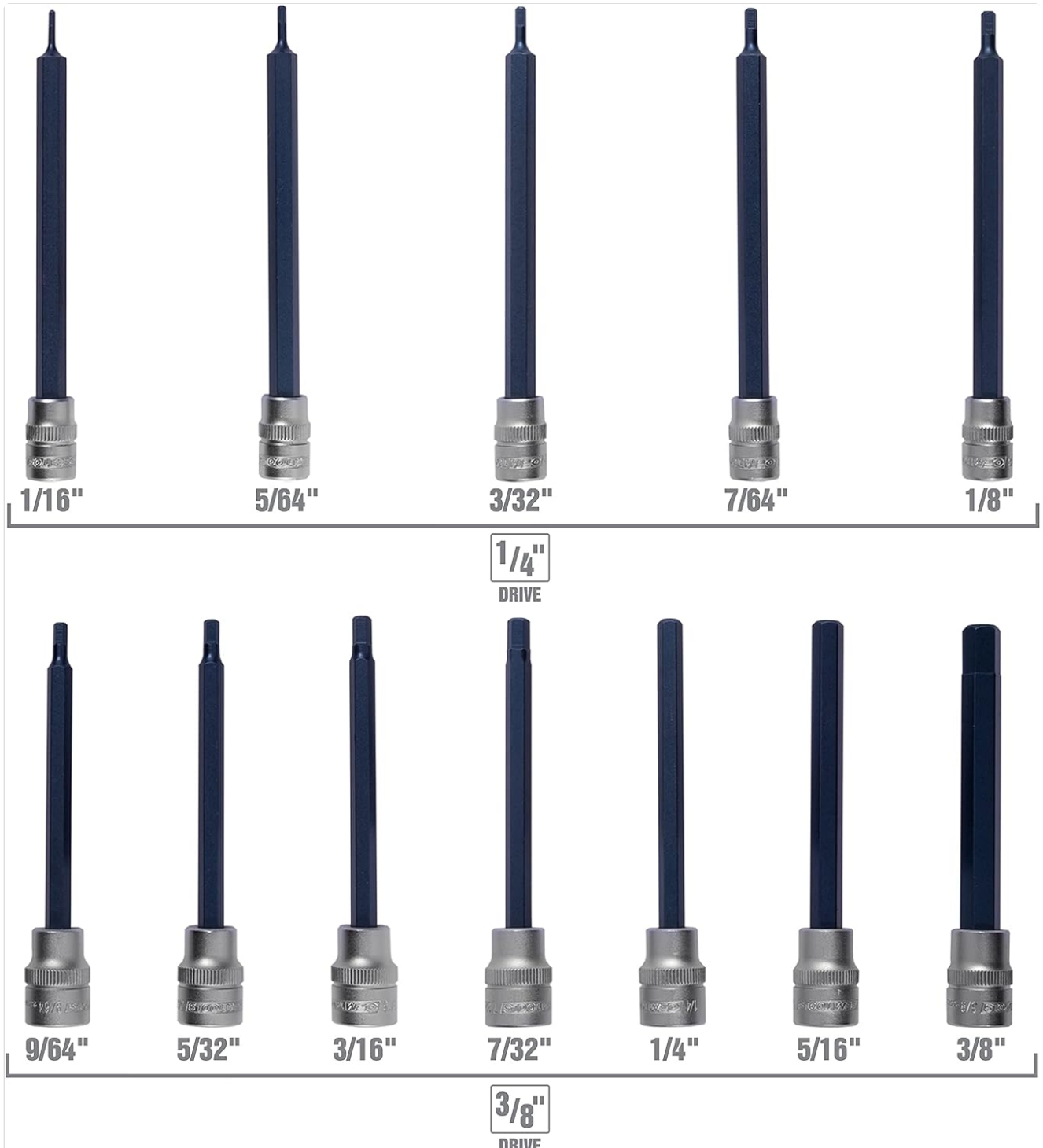


Figure 4: Visual guide illustrating the division of hex bit socket sizes between 1/4 inch and 3/8 inch drive compatibility.

3. **Attach the Socket:** Firmly attach the selected hex bit socket to your drive tool. Ensure it clicks securely into place if using a ratchet or impact driver.
4. **Engage the Fastener:** Insert the hex bit into the fastener head, ensuring a full and snug fit to prevent stripping. The extra-long design allows access to recessed fasteners.
5. **Apply Torque:** Apply steady and controlled torque to loosen or tighten the fastener. Avoid excessive force that

could damage the fastener or the tool.

6. **Remove and Store:** Once the task is complete, remove the socket from the drive tool and return it to its designated slot in the storage case to maintain organization and protect the tools.

REINFORCED CHROME VANADIUM STEEL INCREASES TURNING POWER



Figure 5: A hex bit socket securely attached to a ratchet, illustrating how the tool is used to apply torque to fasteners. The image highlights the robust connection between the socket and the drive tool.



Figure 6: A user demonstrating the insertion of a hex bit socket into an impact driver, showcasing the compatibility of the sockets with power tools for efficient operation.

MAINTENANCE

Proper maintenance will extend the life and performance of your OEMTOOLS Hex Socket Set.

- **Cleaning:** After each use, wipe down the sockets with a clean, dry cloth to remove dirt, grease, and debris. For stubborn grime, a mild degreaser can be used, followed by thorough drying.
- **Corrosion Protection:** While the sockets have a corrosion-resistant finish, storing them in a dry environment is recommended. If exposed to moisture, ensure they are completely dry before storage.
- **Storage:** Always store the hex bit sockets in their original green storage case. This protects them from damage, keeps them organized, and prevents loss.
- **Inspection:** Periodically inspect each socket for signs of wear, such as rounding of the hex bit, cracks in the socket, or corrosion. Replace any damaged sockets immediately to ensure safe and effective operation.

TROUBLESHOOTING

Most issues with hex bit sockets can be resolved with proper usage and maintenance. Here are some common scenarios:

- **Socket Slipping on Fastener:**
 - Ensure you are using the correct SAE size for the fastener. A slightly oversized socket will slip.
 - Verify the hex bit is fully seated into the fastener head.
 - Inspect the hex bit for wear or rounding. A worn bit will not grip properly.
- **Difficulty Attaching to Drive Tool:**
 - Confirm you are using the correct drive size (1/4" or 3/8") for the socket.
 - Check for debris or obstructions in the drive square of the socket or on the drive tool.
- **Corrosion Appearing:**
 - Ensure sockets are cleaned and thoroughly dried after exposure to moisture.
 - Store the set in a dry environment, preferably in its case.

SPECIFICATIONS

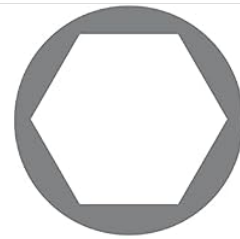
Attribute	Detail
Brand	OEMTOOLS
Model Number	23563
Number of Pieces	12
Material	S2 Steel (Bits), Chrome Vanadium Steel (Sockets)
Drive System	Hex
Drive Sizes	1/4 inch, 3/8 inch
SAE Sizes Included	1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"
Finish Type	Chrome Plated (Sockets), Zinc Phosphate (Bits)
Item Length	Approximately 4 inches (for individual sockets)
Item Weight	2.01 pounds (total set)
UPC	076812235633
Manufacturer	Great Neck Saw Mfg. Inc.
Standards Met	Meets and exceeds ANSI standards

HEAT-TREATED S2 STEEL BITS TO REDUCE PREMATURE WEAR



Figure 7: A complete display of all 12 hex bit sockets, highlighting their S2 steel construction designed for durability and resistance to wear.

4.33"



S2
STEEL



**HARD CHROME SATIN FINISH IS RUST RESISTANT
AND EASY TO CLEAN**

Figure 8: A diagram illustrating the approximate 4.33-inch length of an individual hex bit socket and confirming its construction from S2 steel, meeting ANSI Z87.1 standards.

WARRANTY

The OEMTOOLS 23563 12-Pc Extra Long Hex Socket Set (SAE) is backed by a **Lifetime Limited Warranty**. This

warranty covers defects in material and workmanship under normal use and service. For specific terms, conditions, and claim procedures, please refer to the official OEMTOOLS warranty policy available on their website or contact customer support.

SUPPORT

For further assistance, technical support, or warranty claims regarding your OEMTOOLS 23563 Hex Socket Set, please contact OEMTOOLS customer service. You can find contact information and additional resources on the official OEMTOOLS website:

[Visit OEMTOOLS Official Website](#)

Please have your product model number (23563) and UPC (076812235633) ready when contacting support.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question