



Manuals.plus /

› Astro Pneumatic Tool /

› Astro Pneumatic Tool 7412 12-Piece 1/4" Drive Flex Socket Set - 6 Point - Metric Metric Drive Socket Set

Astro Pneumatic Tool 7412

Astro Pneumatic Tool 7412 12-Piece 1/4" Drive Flex Socket Set

Instruction Manual

INTRODUCTION

Thank you for choosing the Astro Pneumatic Tool 7412 12-Piece 1/4" Drive Flex Socket Set. This manual provides essential information for the proper use, maintenance, and care of your new socket set. Designed for professionals and DIY enthusiasts alike, this set offers superior access and torque transmission in challenging applications. Please read this manual thoroughly before using the product to ensure safe and effective operation.

PRODUCT OVERVIEW

The Astro Pneumatic Tool 7412 Flex Socket Set is engineered for precision and durability. Its unique design allows for flexible articulation, making it ideal for reaching fasteners in confined or awkward spaces.

Key Features:

- **Universal Flex Joint Design:** Allows sockets to angle and articulate, providing access to tight spaces while maintaining a solid grip on the fastener.
- **Surface Drive Technology:** Grips fasteners on the flats, not the corners, to prevent rounding and ensure greater torque transmission.
- **Loctite on Threaded Pins:** Prevents loosening of the flexible joints over time, ensuring long-term durability and consistent performance.
- **Full Polish Finish:** Provides a crisp, professional look and enhances corrosion resistance.
- **Comprehensive Metric Sizes:** Includes a full range of commonly used metric sizes for versatile applications.

Included Components:

The 7412 set includes 12 pieces of 1/4" Drive 6-Point Metric Flex Sockets, housed in a convenient storage tray:

- 5mm Flex Socket
- 5.5mm Flex Socket
- 6mm Flex Socket
- 7mm Flex Socket

- 8mm Flex Socket
- 9mm Flex Socket
- 10mm Flex Socket
- 11mm Flex Socket
- 12mm Flex Socket
- 13mm Flex Socket
- 14mm Flex Socket
- 15mm Flex Socket

Product Images:



The complete 12-piece Astro Pneumatic Tool 7412 Flex Socket Set, neatly arranged in its red and black foam storage tray.



Front view of the retail packaging for the Astro Pneumatic Tool 7412 Flex Socket Set, showing the sockets through a clear window.



Back view of the retail packaging, highlighting key features such as the universal flex joint design and included sizes.



A close-up view of a single 10mm flex socket, demonstrating its angled articulation for improved access.



A close-up view of a single flex socket in its straight, unarticulated position, showing the 1/4" drive end.



An image illustrating the compact size of the socket set in its tray relative to a human hand, indicating portability.

SETUP

The Astro Pneumatic Tool 7412 Flex Socket Set requires minimal setup. Upon receiving your set, please follow these steps:

1. **Unpack:** Carefully remove the socket set from its packaging.
2. **Inspect:** Examine all 12 sockets for any signs of damage or manufacturing defects. Ensure all components listed in the "Included Components" section are present.
3. **Organize:** Keep the sockets stored in their provided foam tray for easy organization and identification of sizes. This also helps protect the sockets from damage and loss.

OPERATING INSTRUCTIONS

The Astro Pneumatic Tool 7412 Flex Socket Set is designed for use with 1/4" drive ratchets, extensions, or other drive tools. Its flexible joint allows for unique access capabilities.

1. **Select the Correct Size:** Identify the appropriate metric socket size (5mm to 15mm) for the fastener you are working with. Using the correct size prevents rounding of the fastener and damage to the socket.
2. **Attach to Drive Tool:** Securely attach the selected flex socket to your 1/4" drive ratchet, extension, or other compatible drive tool. Ensure the socket is fully seated on the drive square.
3. **Position the Socket:**
 - For standard applications, use the socket in its straight position.
 - For hard-to-reach fasteners or those at an angle, articulate the flex joint of the socket to achieve the necessary angle.

The joint is designed to hold its position, allowing for easier engagement with the fastener.

4. **Engage the Fastener:** Carefully place the socket onto the fastener, ensuring it fully engages all six points of the fastener head. The surface drive technology helps to grip the flats of the fastener, reducing the risk of slippage.
5. **Apply Torque:** Apply steady and controlled torque using your drive tool. Avoid sudden jerking motions, especially when the socket is angled, to prevent damage to the tool or fastener.
6. **Remove the Socket:** Once the task is complete, carefully remove the socket from the fastener and then from the drive tool.

Important: While these sockets are designed for durability, always use appropriate safety gear, including eye protection, when working with tools. Do not use damaged sockets.

MAINTENANCE

Proper maintenance will extend the life and performance of your Astro Pneumatic Tool 7412 Flex 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.
- **Lubrication:** The flexible joints are designed with Loctite on the threaded pins to prevent loosening. No additional lubrication is typically required for the joints. However, a light coat of rust-preventative oil can be applied to the entire socket if storing in a humid environment.
- **Storage:** Always store the sockets in their original foam tray or a suitable toolbox organizer. This protects them from impact, corrosion, and keeps them organized. Store in a dry environment.
- **Inspection:** Periodically inspect each socket for wear, cracks, or damage. Pay close attention to the drive square and the flex joint. Discontinue use of any damaged sockets immediately.

TROUBLESHOOTING

This section addresses common issues you might encounter with your flex socket set.

Issue: Socket feels stiff or difficult to articulate.

Possible Cause: Accumulation of dirt or debris in the joint, or the Loctite setting firmly over time.

Solution: Clean the joint thoroughly with a brush and a mild degreaser. Work the joint back and forth to loosen any trapped particles. The stiffness is often a design feature to ensure the socket holds its angle during use, preventing floppiness.

Issue: Socket slips or rounds the fastener.

Possible Cause: Incorrect socket size, worn socket, or improper engagement with the fastener.

Solution: Ensure you are using the correct metric size for the fastener. Verify the socket is fully seated on the fastener head. Inspect the socket's internal hex for wear; if worn, replace the socket. Always apply steady pressure and avoid excessive force or angled torque that could cause slippage.

Issue: Socket appears to be rusting.

Possible Cause: Exposure to moisture or corrosive substances, or improper storage.

Solution: Clean the rust with a rust remover or fine abrasive pad. Apply a light coat of rust-preventative oil. Ensure sockets are always stored in a dry environment, away from humidity and corrosive chemicals.

SPECIFICATIONS

Attribute	Detail
Brand	Astro Pneumatic Tool
Model Number	7412
Part Number	APT-7412
Number of Pieces	12
Drive Size	1/4"
Socket Type	Flex Socket, 6-Point
Measurement System	Metric
Included Sizes	5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm
Finish Type	Polished
Item Weight	8.8 ounces
Product Dimensions	6 x 6 x 6 inches
Country of Origin	China

WARRANTY AND SUPPORT

Warranty Information:

The Astro Pneumatic Tool 7412 12-Piece 1/4" Drive Flex Socket Set comes with a **1-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, alteration, or normal wear and tear. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, warranty claims, or any questions regarding your Astro Pneumatic Tool product, please contact Astro Pneumatic Tool customer service. Visit the official Astro Pneumatic Tool website for the most current contact information and support resources.

Website: www.astropneumatic.com