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Astro Pneumatic Tool 78300

Astro Tools 78300 Ratcheting Double Flex Head Wrench for Nano Sockets User Manual

Model: 78300

INTRODUCTION

This manual provides essential instructions for the safe and effective use of your Astro Tools 78300 Ratcheting Double Flex Head Wrench. This specialized tool is designed to work seamlessly with Astro's 3/8" and 1/2" drive low-profile Nano impact sockets, offering enhanced access in confined spaces.



Figure 1: The Astro Tools 78300 Ratcheting Double Flex Head Wrench.

KEY FEATURES

- **Dual Ratcheting Heads:** Features 17mm and 22mm ratcheting ends, specifically designed to lock onto and retain Astro's 3/8" and 1/2" drive low-profile Nano impact sockets.
- **100-Tooth Flex-Head Design:** Provides fine ratcheting action with minimal swing arc, allowing access in extremely confined areas. The flex-head pivots 180 degrees for versatile positioning.
- **Ultra Low-Profile:** Maintains a total thickness of 0.9" to 1.1" with a socket attached, enabling work in tight spaces where standard wrenches cannot reach.
- **Overall Length:** Measures 11.8 inches, offering a balance of reach and maneuverability.
- **Compatibility:** Works with Astro 78310, 78314, 78211, 78215, and other socket sets featuring 17mm or 22mm outside hex dimensions.

SAFETY INFORMATION

Always observe the following safety precautions when using hand tools:

- Wear appropriate personal protective equipment, such as safety glasses, to prevent eye injury.
- Ensure the tool and workpiece are stable before applying force.
- Do not use the wrench if it is damaged or appears to be malfunctioning.
- Avoid using extension handles or "cheater bars" as this can overload the wrench and cause damage or injury.
- Keep hands and fingers clear of moving parts and pinch points.
- Store the tool in a clean, dry place away from children.

SETUP

Attaching Nano Sockets

1. Select the appropriate Nano impact socket (3/8" or 1/2" drive) for your application.
2. Identify the corresponding wrench head (17mm for 3/8" drive Nano sockets, 22mm for 1/2" drive Nano sockets).
3. Align the Nano socket with the hexagonal opening on the wrench head.
4. Firmly press the socket into the wrench head until it clicks into place. The internal spring clip mechanism will retain the socket.
5. Gently pull on the socket to ensure it is securely attached before use.



Figure 2: Proper grip and socket attachment demonstration.

OPERATING INSTRUCTIONS

Using the Ratcheting Mechanism

- The wrench features a 100-tooth ratcheting mechanism on both ends, allowing for fine adjustments and minimal handle swing.
- To change the direction of the ratcheting action (tightening or loosening), simply flip the wrench over. The wrench is designed to operate in both directions by reversing its orientation.

Utilizing the Flex-Head

- The flex-head design allows the wrench head to pivot up to 180 degrees. This feature is crucial for accessing fasteners in awkward or obstructed locations.
- Adjust the angle of the head by gently bending it to the desired position. The internal friction mechanism will hold the head in place during use.



Figure 3: Demonstrating the low-profile access in a confined space.



Figure 4: The wrench with its flex-head adjusted for angled access.

MAINTENANCE

- **Cleaning:** After each use, wipe the wrench clean with a dry cloth to remove dirt, grease, and debris. For stubborn

grime, a mild solvent or degreaser can be used, followed by thorough drying.

- **Lubrication:** Periodically apply a small amount of light machine oil to the ratcheting mechanisms and flex-head pivot points to ensure smooth operation and prevent corrosion. Avoid over-lubrication.
- **Storage:** Store the wrench in a dry environment to prevent rust. A tool roll or drawer organizer is recommended to protect the polished finish and prevent damage.
- **Inspection:** Regularly inspect the wrench for any signs of wear, damage, or deformation. Discontinue use if any issues are found and consider replacement.

TROUBLESHOOTING

Socket not retaining securely:

Ensure the socket is fully seated and clicked into place. Inspect the internal spring clip mechanism for any obstructions or damage. If damaged, the wrench may require replacement.

Ratcheting mechanism feels stiff or gritty:

Clean the ratcheting head thoroughly and apply a small amount of light machine oil. Operate the mechanism back and forth to distribute the lubricant. If the issue persists, internal components may be worn.

Flex-head does not hold position:

The friction mechanism in the flex-head may be worn. This can occur over extended use. If the head cannot maintain its angle, the tool's effectiveness in tight spaces will be reduced.

SPECIFICATIONS

Model Number	78300
Brand	Astro Pneumatic Tool
Wrench Sizes	17mm (for 3/8" Nano Sockets), 22mm (for 1/2" Nano Sockets)
Ratcheting Teeth	100-tooth mechanism
Flex-Head Angle	180 degrees
Total Thickness (with socket)	0.9" to 1.1"
Overall Length	11.8 inches
Finish	Polished
Item Weight	1.01 pounds
UPC	745227071562

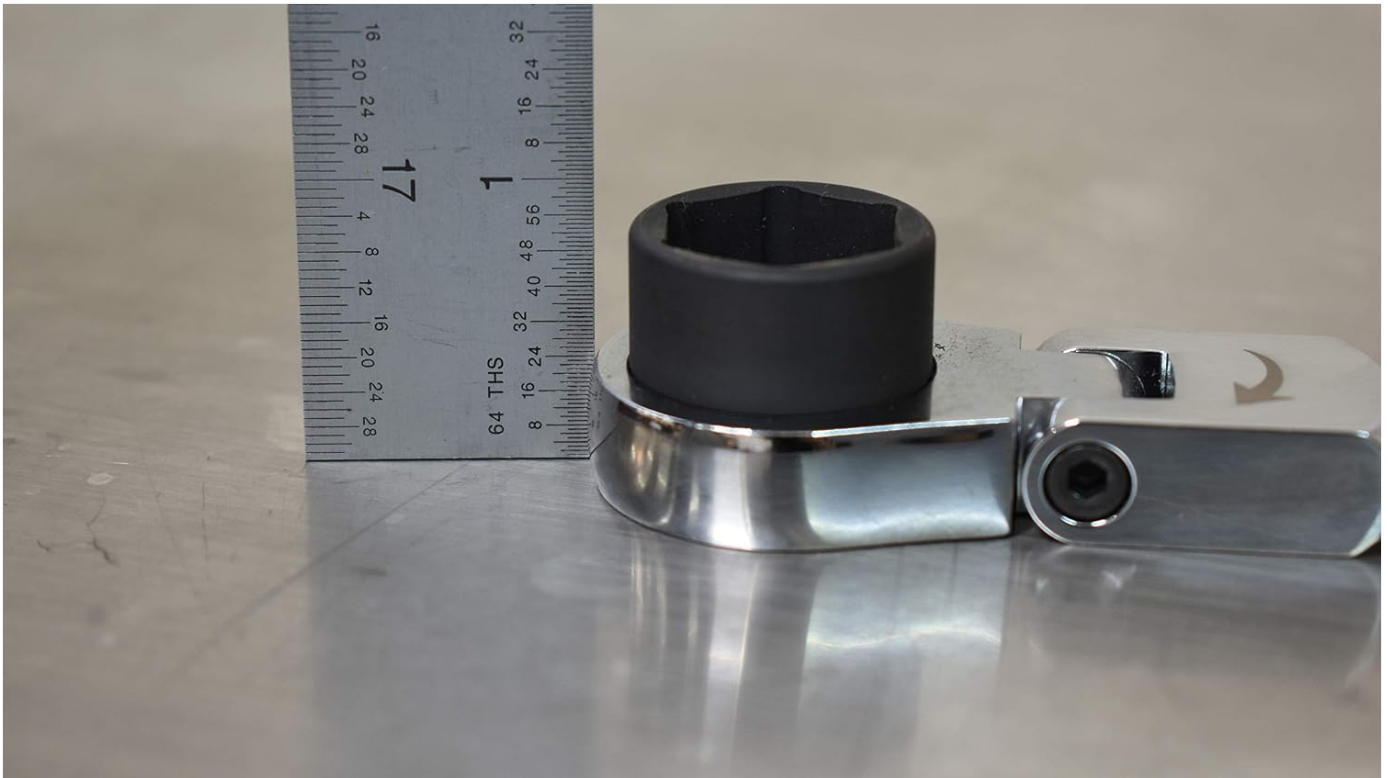


Figure 5: Measurement illustrating the low-profile design.

WARRANTY AND SUPPORT

Warranty Information

Astro Pneumatic Tool products are manufactured to high-quality standards. For specific warranty details regarding your 78300 Ratcheting Double Flex Head Wrench, please refer to the warranty documentation included with your purchase or visit the official Astro Pneumatic Tool website. Warranty coverage typically addresses defects in materials and workmanship under normal use.

Customer Support

Should you have any questions, require technical assistance, or need to report an issue with your Astro Tools 78300 wrench, please contact Astro Pneumatic Tool customer service. Contact information can typically be found on the product packaging or their official website.

Note: Always provide your model number (78300) when contacting support for efficient service.

ASK A QUESTION ABOUT THIS MANUAL

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.

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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