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AP 78314

AP Astro Tools 78314 14-Piece 3/8" Drive Low Profile Nano Impact Sockets - Metric User Manual

Model: 78314

1. Introduction

This manual provides essential information for the safe and effective use of your AP Astro Tools 78314 14-Piece 3/8" Drive Low Profile Nano Impact Sockets - Metric. These sockets are designed for professional and DIY applications requiring compact, durable tools for fasteners in confined spaces. Please read this manual thoroughly before using the product.



Image 1.1: The AP Astro Tools 78314 14-Piece 3/8" Drive Low Profile Nano Impact Sockets - Metric set. This image displays the complete set of sockets, showcasing their compact design and organized presentation.

2. Safety Information

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Always wear appropriate personal protective equipment (PPE) when using hand tools.

- Always wear safety glasses to protect your eyes from flying debris.
- Ensure the socket is fully seated on the fastener and the drive tool before applying force.
- Do not use damaged or worn sockets. Inspect tools before each use.
- Do not use impact sockets with manual wrenches for applications exceeding their design limits.
- Keep hands and fingers clear of moving parts and pinch points.
- Store tools in a dry, secure place away from children.

3. Package Contents

The AP Astro Tools 78314 set includes the following:

- 14 x 3/8" Drive Low Profile Nano Impact Sockets (Metric sizes)

- Socket rail/organizer (may vary by packaging)

4. Product Features

The Astro 78314 Nano Impact Sockets are engineered for durability and access in tight spaces:

- **Low Profile Design:** At 0.88" (22.5mm) long, these sockets are significantly shorter than standard shallow impact sockets, providing superior access in confined areas.
- **Durable Construction:** Made from precision broached forged Chrome-Molybdenum (CR-MO) steel for strength and longevity.
- **External Hex Feature:** All sockets include a 17mm outside hex, allowing for increased access and versatility when used with a wrench in extremely tight spots.
- **Enhanced Material Thickness:** Superior material thickness between the socket body and drive ensures robust performance under impact.



Image 4.1: Size comparison between a Nano Impact Socket and a standard socket. This image clearly illustrates the significantly reduced length of the Nano Impact Socket, highlighting its advantage for use in restricted access areas.



Image 4.2: A close-up view of a single Astro Nano Impact Socket. This image details the socket's markings, drive end, and the 17mm outside hex feature designed for wrench access.

5. Setup

These sockets are designed for use with 3/8" drive impact wrenches, ratchets, and other drive tools.

1. **Select the Correct Socket:** Identify the correct metric size socket that matches your fastener.
2. **Attach to Drive Tool:** Firmly press the square drive end of the socket onto the 3/8" drive anvil of your impact wrench or ratchet until it clicks or is securely seated. Ensure the socket is fully engaged to prevent slippage during use.



Image 5.1: A hand attaching a Nano Impact Socket to a ratchet. This image demonstrates the proper method for securing the socket onto a drive tool, ensuring a firm connection for safe operation.

6. Operating Instructions

Follow these steps for effective and safe operation:

1. **Prepare the Fastener:** Clean any dirt or debris from the fastener head to ensure proper socket engagement.
2. **Position the Socket:** Place the socket squarely over the fastener head. Apply slight pressure to ensure it is fully seated and does not wobble.
3. **Apply Force:**
    - **With Impact Wrench:** Operate the impact wrench according to its manufacturer's instructions. Apply controlled bursts of power.
    - **With Ratchet/Breaker Bar:** Apply steady, even pressure. Avoid sudden jerking motions. For stubborn fasteners, use a breaker bar for increased leverage.
4. **Utilizing the Outside Hex:** In extremely confined spaces where a ratchet or impact wrench cannot fit, a standard wrench can be used on the 17mm outside hex of the socket to turn the fastener.
5. **Remove Socket:** Once the task is complete, remove the socket from the fastener and then from the drive tool.

Your browser does not support the video tag.

Video 6.1: Product Overview Video. This video provides a general overview of the Astro Tools Nano Impact Sockets, demonstrating their features and potential applications.

7. Maintenance

- **Cleaning:** After each use, wipe sockets clean with a cloth to remove dirt, grease, and oil. For heavy grime, use a mild degreaser and dry thoroughly.

- **Inspection:** Regularly inspect sockets for signs of wear, cracks, or damage. Discard any damaged sockets immediately to prevent injury or fastener damage.
- **Storage:** Store sockets in their provided rail or a suitable tool organizer in a dry environment to prevent rust and corrosion.

8. Troubleshooting

Most issues with sockets relate to improper selection or use.

- **Socket Does Not Fit Fastener:**
  - Ensure you have selected the correct metric size.
  - Check for debris on the fastener head or inside the socket.
  - Verify the fastener is not stripped or damaged.
- **Socket Slips on Fastener:**
  - Ensure the socket is fully seated on the fastener.
  - The fastener head may be rounded or damaged; consider using a specialized fastener extractor.
  - The socket may be worn; replace if necessary.
- **Socket Stuck on Drive Tool:**
  - Apply a small amount of penetrating oil around the drive connection and gently twist to free.
  - Ensure the drive tool's detent ball is not jammed.

9. Specifications

Feature	Detail
Model Number	78314
Drive Size	3/8 inch
Socket Type	Low Profile Nano Impact
Measurement System	Metric
Number of Pieces	14
Material	Chrome-Molybdenum (CR-MO) Steel
Finish Type	Painted (Black Oxide)
Item Length	0.88 inches (22.5mm)
Outside Hex Size	17mm
Item Weight	1.1 pounds (total set)
UPC	745227025190

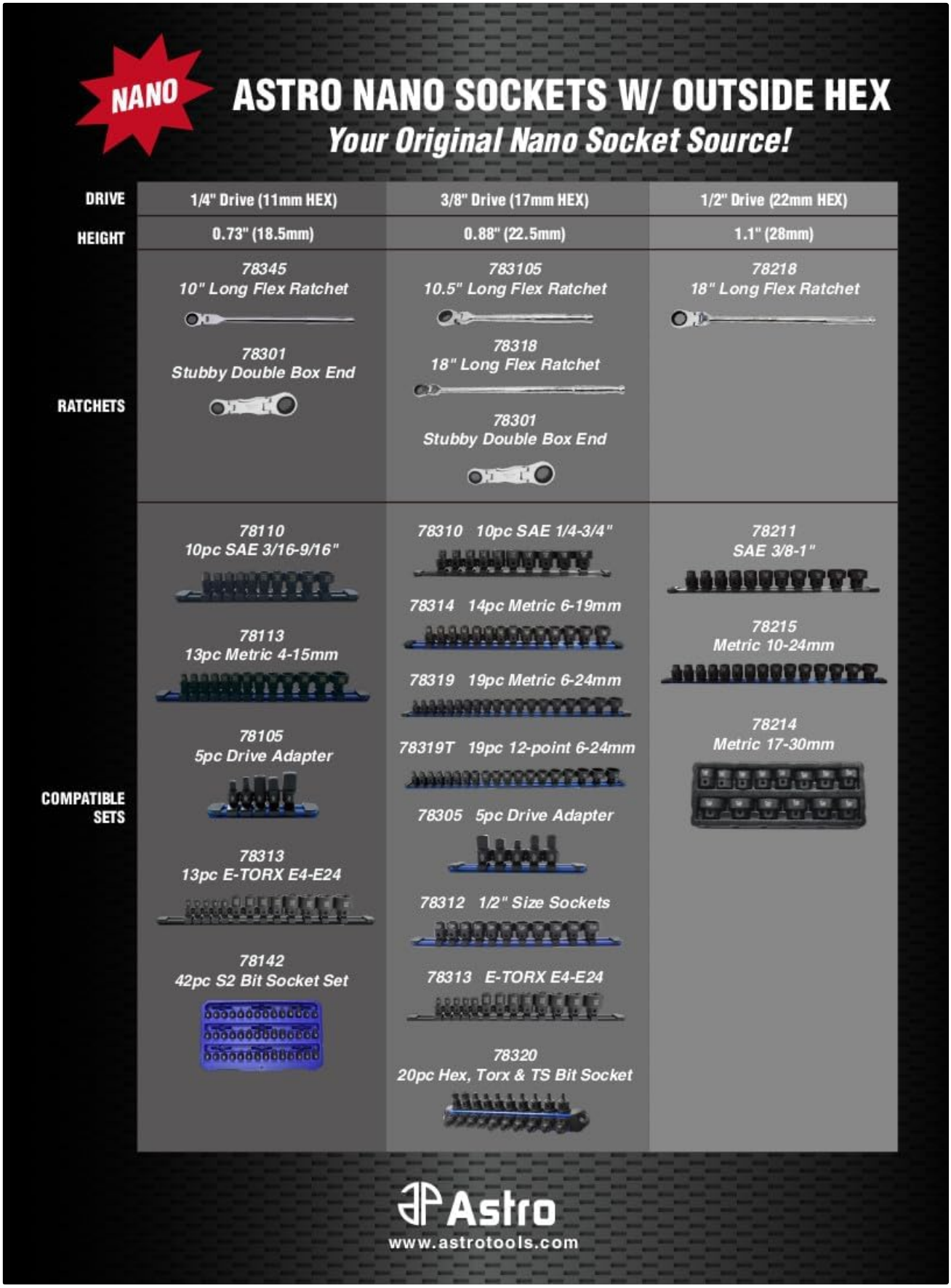


Image 9.1: Astro Nano Sockets with Outside Hex compatibility chart. This chart provides detailed specifications and compatible tools for various Astro Nano Socket sets, including drive sizes, heights, and related products.

10. Warranty

AP Astro Tools products are manufactured to high standards and are backed by a comprehensive warranty. For specific details regarding the warranty coverage for your 78314 Nano Impact Sockets, please refer to the official Astro

Pneumatic Tool website or contact their customer service.



Image 10.1: AP Astro Tools Lifetime Warranty Guaranteed logo. This logo signifies the manufacturer's commitment to quality and provides assurance of a lifetime warranty for their products.

11. Support

For further assistance, technical support, or to inquire about replacement parts, please contact AP Astro Tools customer service or visit their official website:

www.astrotools.com

Please have your model number (78314) and purchase information ready when contacting support.

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