

Astro Pneumatic Tool 78215, 78211

Astro Pneumatic 1/2" Drive Low Profile Nano Impact Sockets User Manual

MODELS: 78215 (METRIC) & 78211 (SAE)

1. Introduction

This instruction manual provides essential information for the safe and effective use of your Astro Pneumatic 1/2" Drive Low Profile Nano Impact Sockets. This product includes two sets: the 15-piece Metric set (Model 78215) and the 11-piece SAE set (Model 78211). Please read this manual thoroughly before operation and retain it for future reference.

2. Product Features

- **Compact Design:** Sockets measure 1.10" (28mm) in length, making them significantly shorter than standard shallow impact sockets and other stubby impact sockets.
- **Enhanced Access:** Each socket features a 22mm (7/8") outside hex, allowing for increased access and versatility when used with a wrench.
- **Durable Construction:** Manufactured from forged Chrome Molybdenum (CR-MO) steel, ensuring superior material thickness and strength between the socket body and drive.
- **Comprehensive Metric Set (Model 78215):** Includes 15 sockets ranging from 10mm to 24mm, with no skipped sizes.
- **Comprehensive SAE Set (Model 78211):** Includes 11 sockets ranging from 3/8" to 1", with no skipped sizes.



Figure 1: Overview of the Astro Pneumatic 1/2" Drive Low Profile Nano Impact Sockets, showing both Metric and SAE sets.

3. Package Contents

Your package should contain the following items:

- 15-piece 1/2" Drive Low Profile Nano Impact Socket Set - Metric (Model 78215)
- 11-piece 1/2" Drive Low Profile Nano Impact Socket Set - SAE (Model 78211)

- Storage rails for both Metric and SAE sets.



Figure 2: The 15-piece Metric socket set (10mm to 24mm) on its storage rail.



Figure 3: The 11-piece SAE socket set (3/8" to 1") on its storage rail.

4. Setup and Preparation

1. **Inspect Sockets:** Before first use, inspect all sockets for any signs of damage or manufacturing defects. Do not use damaged sockets.
2. **Select Correct Size:** Identify the appropriate socket size (Metric or SAE) that precisely fits the fastener you intend to work with. Using an incorrect size can damage the fastener or the socket.
3. **Choose Impact Wrench:** Ensure your impact wrench has a 1/2" drive anvil.

5. Operating Instructions

These sockets are designed for use with 1/2" drive impact wrenches. Always follow the safety guidelines provided with your impact wrench.

1. **Attach Socket:** Firmly push the selected impact socket onto the 1/2" drive anvil of your impact wrench until it clicks into place.
2. **Position on Fastener:** Place the socket squarely onto the head of the fastener (nut or bolt). Ensure full engagement to prevent stripping.
3. **Operate Impact Wrench:** Activate the impact wrench to loosen or tighten the fastener. Apply steady pressure and allow the impact mechanism to do the work.
4. **Utilize External Hex:** For fasteners in confined spaces, the 22mm (7/8") external hex on the socket can be used with a standard wrench for additional leverage or access, if necessary.

Important Safety Note: Always wear appropriate personal protective equipment, including eye protection, when operating impact tools. Ensure the impact wrench's operating pressure does not exceed recommended limits (e.g., 90 PSI if specified on the tool). Use only impact-rated sockets and accessories with impact tools.



Figure 4: Example of compact impact tools, highlighting the utility of low-profile sockets in tight spaces. Note the warning label on the larger tool regarding operating pressure and use of impact sockets.

6. Maintenance and Storage

- **Cleaning:** After each use, wipe the sockets clean of any dirt, grease, or debris. A mild solvent can be used if necessary, followed by thorough drying.
- **Inspection:** Regularly inspect sockets for wear, cracks, or deformation. Discontinue use of any damaged sockets immediately.
- **Lubrication:** While not typically required for sockets themselves, ensure your impact wrench is properly maintained and lubricated according to its manufacturer's instructions.
- **Storage:** Store the sockets in their provided storage rails or a suitable toolbox in a dry environment to prevent rust and corrosion.

7. Troubleshooting

These impact sockets are passive tools and generally do not require troubleshooting. However, if you encounter issues during use, consider the following:

- **Socket Slipping:** Ensure the socket is fully seated on the fastener and that the correct size is being used. Worn fasteners or sockets can cause slipping.
- **Socket Not Fitting:** Double-check that you are using the correct measurement system (Metric or SAE) and the

exact size for the fastener.

- **Impact Wrench Performance:** If the impact wrench is not effectively loosening or tightening, refer to its instruction manual for troubleshooting steps related to air pressure, lubrication, or internal mechanisms.

8. Specifications

Feature	Detail
Brand	Astro Pneumatic Tool
Material	Chrome Molybdenum Steel (CR-MO)
Drive Size	1/2 inch
Socket Length	1.10 inches (28mm)
External Hex Size	22mm (7/8 inch)
Metric Set (Model 78215)	15 pieces: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm
SAE Set (Model 78211)	11 pieces: 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1"
Total Number of Pieces	26

9. Warranty and Support

Astro Pneumatic Tool stands behind the quality of its products. These sockets are backed by a Lifetime Warranty.



Figure 5: Astro Pneumatic Lifetime Warranty logo.

For warranty claims, technical support, or further inquiries, please contact Astro Pneumatic Tool directly through their official website or authorized distributors. Keep your purchase receipt as proof of purchase. You can find more information and contact details on the official Astro Pneumatic Tool website: www.astropneumatic.com

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