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Performance Tool 1406

Performance Tool 1406 MM Combo Wrench Set

User Manual

Model: 1406

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use, maintenance, and care of your Performance Tool 1406 MM Combo Wrench Set. Please read this manual thoroughly before using the tools and retain it for future reference.

The Performance Tool 1406 Combo Wrench Set is designed for various mechanical and DIY tasks, offering a selection of commonly used metric sizes. This set includes five combination wrenches made from durable alloy steel, featuring precision-machined jaws and a chrome-plated finish for longevity and corrosion resistance.

2. SAFETY INFORMATION

Always observe basic safety precautions when using hand tools to reduce the risk of injury.

- **Wear appropriate personal protective equipment (PPE)**, such as safety glasses, to protect against flying debris.
- **Use the correct size wrench** for the fastener to prevent rounding the fastener head or slipping.
- **Ensure a secure grip** on the wrench and the fastener.
- **Do not use wrenches as hammers** or pry bars.
- **Do not extend the handle** of the wrench with a pipe or other means to increase leverage, as this can damage the wrench or fastener.
- **Keep tools clean and free of grease or oil** to maintain a firm grip.
- **Store tools properly** when not in use to prevent damage and corrosion.

3. PRODUCT OVERVIEW AND COMPONENTS

The Performance Tool 1406 MM Combo Wrench Set includes the following components:

- One (1) 8mm Combination Wrench
- One (1) 10mm Combination Wrench
- One (1) 12mm Combination Wrench

- One (1) 14mm Combination Wrench
- One (1) 17mm Combination Wrench
- One (1) Storage Pouch



Figure 3.1: The five metric combination wrenches included in the set, displayed out of their packaging.

4. SETUP

The Performance Tool 1406 MM Combo Wrench Set requires minimal setup before use.

1. **Unpack the Set:** Carefully remove the wrench set from its packaging.
2. **Inspect Tools:** Before first use, inspect each wrench for any signs of damage, such as cracks, bends, or excessive wear. Do not use damaged tools.
3. **Familiarize Yourself:** Identify each wrench by its size marking (8mm, 10mm, 12mm, 14mm, 17mm).





Figure 4.1: The wrench set as it appears in its retail packaging, ready for unboxing.

5. OPERATING INSTRUCTIONS

Using combination wrenches involves selecting the correct size and applying appropriate force.

1. **Select the Correct Size:** Choose the wrench that precisely fits the fastener (nut or bolt head). A snug fit prevents rounding the fastener and ensures efficient torque transfer.
2. **Position the Wrench:**
 - For the *open-end* side: Place it squarely over the fastener, ensuring full engagement on all flats.
 - For the *box-end* side: Slide it over the fastener until it fully seats. The box-end provides a more secure grip and is less likely to slip.
3. **Apply Force:**
 - Apply steady, even pressure. Pull the wrench towards you rather than pushing, as this allows for better control and reduces the risk of injury if the wrench slips.
 - For tightening, turn clockwise. For loosening, turn counter-clockwise (standard right-hand threads).
 - Avoid excessive force that could damage the fastener or the wrench.
4. **Reposition as Needed:** For fasteners that require multiple turns, reposition the wrench after each turn to maintain a secure grip.

6. MAINTENANCE

Proper maintenance extends the life of your wrench set.

- **Cleaning:** After each use, wipe down the wrenches with a clean cloth to remove dirt, grease, and grime. For stubborn residue, a mild degreaser can be used, followed by thorough drying.
- **Rust Prevention:** The chrome-plated finish provides good rust resistance. However, if exposed to moisture or corrosive environments, apply a light coat of rust-inhibiting oil to prevent corrosion.
- **Storage:** Store the wrenches in the provided storage pouch or a tool chest in a dry environment. This protects them from moisture, dust, and physical damage.
- **Inspection:** Periodically inspect the wrenches for any signs of wear, damage, or deformation. Discontinue use of any damaged tools.

7. TROUBLESHOOTING

Common issues and their solutions:

Problem	Possible Cause	Solution
Wrench slips on fastener.	Incorrect wrench size; Worn fastener head; Grease/oil on wrench/fastener.	Ensure correct wrench size; Clean wrench and fastener; Replace worn fastener.
Wrench feels uncomfortable or causes hand strain.	Improper grip; Excessive force; Prolonged use without breaks.	Adjust grip for better leverage; Use appropriate force; Take breaks during prolonged tasks.
Wrench shows signs of rust.	Exposure to moisture; Improper storage.	Clean and dry thoroughly after use; Store in a dry environment; Apply rust-inhibiting oil if needed.

8. SPECIFICATIONS

Feature	Detail
Model Number	1406
Set Type	Combination Wrench Set (MM)
Number of Pieces	5
Sizes Included	8mm, 10mm, 12mm, 14mm, 17mm
Material	Alloy Steel
Finish	Chrome-plated, Polished Chrome Finish
Head Style	Box End / Open End (Combination)
Item Weight	0.65 Pounds (approx. 10.4 ounces)
Product Dimensions	3.1 x 1.3 x 8.8 inches (packaging)
UPC	039564141676

9. WARRANTY AND SUPPORT

Performance Tool products are manufactured to high-quality standards. For specific warranty details and support, please refer to the information below:

Warranty Description: Lifetime Replacement on Hand tools. (Excludes blades, bits, punches, dies, bulbs, fuses, grinding wheels, belts and other consumables which must be replaced under normal use and service.)

For customer support or warranty claims, please contact Performance Tool directly or visit their official website. Contact information can typically be found on the product packaging or the manufacturer's website.

You can visit the Performance Tool Store for more information:[Performance Tool Store](#)

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This manual is subject to change without notice.