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> Pittsburgh Professional 301 Piece Mechanic's Tool Kit SAE and Metric Instruction Manual

Pittsburgh 63464

Pittsburgh Professional 301 Piece Mechanic's Tool Kit SAE and Metric

Model: 63464 | Brand: Pittsburgh

1. INTRODUCTION

Welcome to the instruction manual for your Pittsburgh Professional 301 Piece Mechanic's Tool Kit. This comprehensive kit is designed to provide a wide array of tools for various mechanical tasks, featuring both SAE and Metric measurements. This manual will guide you through the proper setup, operation, maintenance, and troubleshooting to ensure safe and effective use of your tools.

Please read this manual thoroughly before using the tool kit and retain it for future reference.

2. IMPORTANT SAFETY INSTRUCTIONS

Always prioritize safety when working with tools. Failure to follow these instructions may result in injury or damage to property.

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- Ensure your work area is clean, well-lit, and free from obstructions.
- Use the correct tool for the job. Do not force tools or use them for purposes for which they were not designed.
- Inspect tools before each use for any signs of wear, damage, or defects. Do not use damaged tools.
- Keep tools clean and dry to prevent corrosion and maintain optimal performance.
- Store tools securely in their designated places to prevent loss and damage, and keep them out of reach of children.
- Never use tools near live electrical circuits unless they are specifically insulated for such use.

3. PRODUCT OVERVIEW

The Pittsburgh Professional 301 Piece Mechanic's Tool Kit is a comprehensive set designed for a wide range of automotive and general mechanical repairs. It includes a variety of drive sizes, sockets, wrenches, pliers, and specialty bits.



Image: The Pittsburgh Professional 301 Piece Mechanic's Tool Kit, showcasing its organized layout within the storage case. This image provides a visual representation of the kit's contents and overall presentation.

Kit Contents Summary:

- **1/4" Drive Set:** Includes 6-pt. SAE & Metric sockets, 6-pt. SAE & Metric deep wall sockets, 8-pt. SAE sockets, 12-pt. SAE sockets, External Star sockets, Star bit sockets, Hex bit SAE/Metric sockets, Robertson bit sockets, Slotted bit sockets, Phillips bit sockets, and a 5-1/2" Ratchet.
- **3/8" Drive Set:** Features 6-pt. SAE/Metric sockets, 6-pt. SAE/Metric deep wall sockets, External Star sockets, Star bit sockets, Hex bit SAE & Metric sockets, Extension bars, an 8" Ratchet, an 8" breaker bar, and a Socket adapter.
- **1/2" Drive Set:** Contains 6-pt. SAE & Metric sockets, 6-pt. SAE & Metric deep wall sockets, Star bit sockets, Hex bit SAE & Metric sockets, Extension bars, a T-bar adapter, a Socket adapter, a 9-3/4" Ratchet, Spark plug sockets, and a Universal joint.
- **Wrenches:** Combination SAE & Metric wrenches and an 8" Adjustable wrench.
- **Pliers:** 6" Diagonal, 8" Long Nose, and 6" Lineman's pliers.
- **Other Tools:** 8 pc. precision screwdriver set, 16 pc. short arm hex key set (SAE/Metric), 26 pc. long arm hex key set (SAE/Metric), and a 16 pc. screwdriver set.

4. INITIAL SETUP

Upon receiving your tool kit, follow these steps for initial setup:

1. **Unpack:** Carefully remove all components from the packaging.
2. **Inspect:** Check all tools for any shipping damage or missing parts against the kit contents list provided in Section 3.
3. **Organize:** Familiarize yourself with the layout of the tools within the storage case. Each tool has a designated slot for easy identification and organization.
4. **Clean:** Wipe down any tools with a clean, dry cloth to remove any manufacturing residues or protective oils.

5. OPERATING INSTRUCTIONS

This section provides general guidance on using the various tools included in your kit. Always refer to specific project requirements and safety guidelines.

5.1. Socket and Ratchet Usage

- **Selection:** Choose the correct socket size (SAE or Metric) and drive size (1/4", 3/8", or 1/2") that precisely fits the fastener. A loose fit can strip the fastener.
- **Attachment:** Securely attach the chosen socket to the ratchet. Ensure it clicks into place.
- **Operation:** Place the socket squarely onto the fastener. Turn the ratchet handle in the desired direction (clockwise for tightening, counter-clockwise for loosening). Use extension bars for reaching recessed fasteners and universal joints for angled access.
- **Deep Wall Sockets:** Use deep wall sockets for fasteners with extended bolts or nuts.
- **Specialty Sockets:** Star, Hex, Robertson, Slotted, and Phillips bit sockets are designed for specific fastener head types.

5.2. Wrench Usage

- **Combination Wrenches:** Use the open end for quick engagement and the box end for a more secure grip and higher torque. Match the wrench size to the fastener.
- **Adjustable Wrench:** Adjust the jaw to fit the fastener snugly. Ensure the fixed jaw is applying pressure in the direction of rotation to prevent slippage.

5.3. Pliers Usage

- **Diagonal Pliers:** Primarily used for cutting wires. Do not use for gripping or twisting.
- **Long Nose Pliers:** Ideal for gripping small objects, bending wire, and reaching into tight spaces.
- **Lineman's Pliers:** Versatile for gripping, twisting, and cutting wires.

5.4. Screwdriver and Hex Key Usage

- **Selection:** Choose the correct tip type (Phillips, Slotted, Torx, Hex, etc.) and size that matches the screw head.
- **Application:** Apply firm, downward pressure while turning to prevent cam-out and damage to the screw head.
- **Hex Keys:** Insert the hex key fully into the fastener head before applying torque.

6. CARE AND MAINTENANCE

Proper care and maintenance will extend the life of your tool kit and ensure reliable performance.

- **Cleaning:** After each use, wipe down tools with a clean cloth to remove dirt, grease, and debris. For stubborn grime, use a mild solvent and then wipe dry.
- **Lubrication:** Periodically apply a light coat of machine oil to moving parts of ratchets, adjustable wrenches, and pliers to ensure smooth operation and prevent rust.
- **Storage:** Always return tools to their designated slots in the storage case. Store the case in a dry environment to prevent corrosion.
- **Inspection:** Regularly inspect tools for signs of wear, cracks, bends, or other damage. Replace or repair damaged tools immediately. Do not use tools with stripped or worn heads.

7. TROUBLESHOOTING COMMON ISSUES

This section addresses common issues you might encounter while using your tool kit.

- **Stripped Fastener:** If a fastener head is stripping, stop immediately. Try using a different type of tool (e.g., a 6-point

socket instead of a 12-point, or a specialized fastener extractor).

- **Stuck Fastener:** For stubborn fasteners, apply penetrating oil and allow it to soak. Use a breaker bar for increased leverage on appropriate fasteners.
- **Ratchets Not Engaging:** Check if the direction switch on the ratchet head is fully engaged. If the mechanism feels gritty, it may require cleaning and lubrication.
- **Tool Slippage:** Ensure the tool (socket, wrench, screwdriver) is correctly sized and fully seated on the fastener. Avoid using worn tools.

8. PRODUCT SPECIFICATIONS

Specification	Detail
Model Number	63464
Brand	Pittsburgh
Material	Chrome Vanadium Steel
Item Weight	47 Pounds
Item Length	9 Inches
Head Style	Open End, Box End
Finish Type	Polished
Operation Mode	Mechanical
UPC	792363459518

9. WARRANTY INFORMATION AND CUSTOMER SUPPORT

This Pittsburgh Professional 301 Piece Mechanic's Tool Kit is manufactured to high-quality standards. For specific warranty details, please refer to the documentation included with your purchase or contact the retailer.

If you encounter any issues or have questions regarding the use or maintenance of your tool kit, please contact customer support through the retailer where the product was purchased. Ensure you have your model number (63464) and purchase information available when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

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