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GEARWRENCH 80966

GEARWRENCH 80966 243-Piece 6-Point Mechanics Tool Set

Model: 80966

1. OVERVIEW

The GEARWRENCH 80966 243-Piece Mechanics Tool Set is designed for professional and advanced home users, offering a comprehensive selection of tools for various applications. This set emphasizes productivity, access, and strength, featuring tools crafted from premium alloy steel with a full polish chrome finish for durability and corrosion resistance.

The set includes a wide range of 1/4 inch, 3/8 inch, and 1/2 inch drive tools, including 6-point sockets in both SAE and metric sizes. Key components are the 90-tooth ratchets, which provide a 4-degree swing arc for efficient fastening in confined spaces. All tools are organized within a durable 3-drawer storage box, ensuring easy access and systematic organization.



Image 1.1: The GEARWRENCH 80966 243-Piece Mechanics Tool Set, showcasing the variety of tools and the organized storage box.

2. COMPONENTS

The GEARWRENCH 80966 tool set includes the following:

- 3 Ratchets (1/4", 3/8", 1/2" drive, 90-tooth)
- 11 Extensions
- 4 Adapters
- 3 Universal Joints
- 15 1/4" Drive SAE Sockets
- 13 1/4" Drive Metric Sockets
- 15 1/4" Drive Deep SAE Sockets
- 11 1/4" Drive Deep Metric Sockets
- 13 3/8" Drive SAE Sockets
- 17 3/8" Drive Metric Sockets
- 12 3/8" Drive Deep SAE Sockets
- 12 3/8" Drive Deep Metric Sockets
- 2 3/8" Drive Spark Plug Sockets
- 13 1/2" Drive SAE Sockets
- 14 1/2" Drive Metric Sockets
- 23 Combination Wrenches
- 14 Nut Driver Bits
- 16 Hex Bits
- Bit Holder Socket
- Bit Driver with 30 Bits

3. SETUP

Upon receiving your GEARWRENCH 80966 tool set, ensure all components are present and accounted for as listed in Section 2. The tools are pre-organized within a 3-drawer blow mold storage box. This box is designed for efficient storage and easy transport.

- Unpacking: Carefully remove the tool set from its packaging. Inspect the storage box for any signs of damage during transit.
- 2. **Accessing Drawers:** The storage box features side latches that secure the drawers. Release these latches to open the drawers and access the tools.
- 3. **Familiarization:** Take time to familiarize yourself with the layout of the tools within each drawer. Sockets, wrenches, and other accessories are arranged by size and type for quick identification.
- 4. Initial Inspection: Before first use, visually inspect each tool for any manufacturing defects or damage.

4. OPERATING INSTRUCTIONS

Proper use of your GEARWRENCH tools ensures safety, efficiency, and longevity. Always select the correct tool for the task at hand.

4.1 Ratchets and Sockets

- **Selection:** Choose the appropriate drive size (1/4", 3/8", or 1/2") and the correct SAE or metric socket size for the fastener. Ensure the socket is a 6-point type for optimal grip and to prevent rounding of fasteners.
- Attachment: Firmly attach the chosen socket to the ratchet. For extensions or universal joints, ensure they are securely connected between the ratchet and socket.
- **Operation:** The 90-tooth ratchets allow for a small 4-degree swing arc, which is beneficial in tight spaces. Turn the ratchet in the desired direction (tighten or loosen) using the directional switch on the ratchet head.
- **Application:** Apply steady, controlled force. Avoid using ratchets as pry bars or with impact tools, as this can damage the mechanism.

4.2 Combination Wrenches

- Selection: Choose the correct SAE or metric combination wrench size that fits snugly on the fastener.
- **Usage:** Use the open-end for quick engagement and disengagement, and the box-end for greater torque and reduced risk of slipping.
- **Safety:** Always pull on the wrench rather than push to avoid injury if the fastener breaks loose unexpectedly.

4.3 Bit Driver and Bits

- Attachment: Insert the desired nut driver, hex, or other bit into the bit holder socket or directly into the bit driver.
- Application: Use for driving or removing screws and other fasteners that require a bit.

5. MAINTENANCE

Regular maintenance will extend the life and performance of your GEARWRENCH tools.

• Cleaning: After each use, wipe down tools with a clean, dry cloth to remove dirt, grease, and moisture.

The full polish chrome finish is easy to clean and helps resist corrosion.

- **Lubrication:** Periodically apply a light coat of machine oil to the moving parts of ratchets to ensure smooth operation.
- **Storage:** Always return tools to their designated spots in the 3-drawer storage box. This prevents loss, protects tools from damage, and maintains organization. Ensure the side latches are secured before transporting the box.
- **Inspection:** Regularly inspect tools for wear, damage, or corrosion. Replace any damaged tools immediately to prevent injury or further damage to fasteners.

6. TROUBLESHOOTING

Most issues with hand tools can be resolved with proper selection and technique.

- **Socket Slipping:** Ensure the correct size and type (SAE/Metric, 6-point) of socket is used. A worn or incorrect socket can slip and damage the fastener.
- Ratcheting Mechanism Issues: If a ratchet is not engaging properly, it may require cleaning and lubrication. If the issue persists, the internal mechanism may be worn or damaged. Refer to the warranty section for replacement options.
- **Stuck Fasteners:** For stubborn fasteners, apply penetrating oil and allow it to soak. Use steady, increasing pressure rather than sudden jerks. Ensure the tool is fully seated on the fastener.
- **Tool Damage:** Avoid over-torquing tools beyond their intended capacity. Do not use extensions to increase leverage on ratchets, as this can cause damage.

7. SPECIFICATIONS

Feature	Detail
Brand	GEARWRENCH
Model Number	80966
Number of Pieces	243
Drive Sizes	1/4 inch, 3/8 inch, 1/2 inch
Socket Type	6-Point (SAE & Metric)
Ratchets	90-Tooth Gear
Material	Alloy Steel
Finish Type	Polished Chrome
Storage	3-Drawer Blow Mold Storage Box
Product Dimensions	19 x 13 x 12 inches

Feature	Detail
Item Weight	1.19 pounds (Note: This weight seems unusually low for a 243-piece tool set and may refer to a single component or be an error in the source data. Actual weight of the full set with case is significantly higher.)
UPC	099575809668, 095456809635

8. WARRANTY

The GEARWRENCH 80966 243-Piece Mechanics Tool Set is covered by a**Standard Limited Lifetime Warranty**. This warranty typically covers defects in material and workmanship for the expected life of the product. For specific details regarding warranty claims, coverage, and procedures, please refer to the official GEARWRENCH warranty policy or contact their customer support directly.

9. SUPPORT

For additional support, product information, or to inquire about replacement parts, please visit the official GEARWRENCH website or contact their customer service department.

You can also visit the GEARWRENCH Store on Amazon for more products and information.

Related Documents - 80966



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