

GEARWRENCH 84916N

GEARWRENCH 44 Pc. 3/8" Drive 6 Point Standard & Deep Impact SAE/Metric Socket Set - 84916N Instruction Manual

Model: 84916N

1. INTRODUCTION AND PRODUCT OVERVIEW

This manual provides essential information for the proper use and maintenance of your GEARWRENCH 44-piece 3/8" Drive 6 Point Standard & Deep Impact SAE/Metric Socket Set. This set is designed for professional use, offering durability and performance for various fastening applications.



Figure 1: Complete GEARWRENCH 44-piece socket set.

Key Features:

- **Material:** Constructed from chrome molybdenum alloy steel for exceptional strength and durability.
- **Fastener Protection:** Features an off-corner loading design to reduce fastener rounding during use.
- **Corrosion Resistance:** Sockets are treated with a black oxide finish to resist corrosion.
- **Size Identification:** Equipped with high-visibility laser-etched markings and secondary hard-stamped size markings for quick and clear identification.
- **Comprehensive Set:** Includes a variety of standard and deep impact sockets in both SAE and Metric measurements.



Figure 2: Detailed view of a socket showing off-corner loading design, black oxide finish, high-visibility laser-etched markings, and chrome molybdenum alloy steel construction.

2. SETUP AND COMPONENT IDENTIFICATION

Your socket set comes organized in a durable blow-molded case for convenient storage and transport. Familiarize yourself with the components and their respective sizes.



Figure 3: The 44-piece socket set neatly arranged in its protective case.

Set Contents:

- **3/8" Drive Deep Metric Sockets:** 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21mm
- **3/8" Drive Standard Metric Sockets:** 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19mm
- **3/8" Drive Deep SAE Sockets:** 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
- **3/8" Drive Standard SAE Sockets:** 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4"
- **Extensions:** 3" and 6" extensions for extended reach.
- **Universal Joint:** For accessing fasteners at angles.



Figure 4: High-visibility laser-etched markings ensure quick size identification, complemented by secondary hard-stamped markings for durability.

3. OPERATING INSTRUCTIONS

These sockets are designed for use with 3/8" drive impact tools. Always select the correct size socket for the fastener to prevent damage to both the fastener and the tool.

Using Sockets:

1. **Select Correct Size:** Match the socket size (SAE or Metric, standard or deep) to the fastener. The laser-etched and stamped markings aid in quick selection.
2. **Attach to Impact Tool:** Securely attach the chosen socket to your 3/8" drive impact wrench or ratchet. Ensure the detent pin engages properly.
3. **Position on Fastener:** Place the socket squarely onto the fastener. For hard-to-reach areas, utilize the 3" or 6" extensions. The universal joint allows for angled access.
4. **Apply Force:** Operate your impact tool according to its manufacturer's instructions. The off-corner loading design of these sockets helps distribute force across the fastener flats, reducing the chance of rounding.



Figure 5: A deep socket attached to an impact driver, demonstrating proper use on a vehicle engine component.

Off-Corner Loading Design:

The innovative off-corner loading design of these sockets applies torque to the sides of the fastener head, rather than the corners. This design minimizes stress on the fastener corners, significantly reducing the risk of rounding and allowing for more effective torque transfer.



Figure 6: Visual representation of the off-corner loading mechanism, which reduces fastener rounding.



Figure 7: Diagram illustrating how the entry angle guides the fastener into the socket.

4. MAINTENANCE

Proper maintenance ensures the longevity and performance of your GEARWRENCH socket set.

Cleaning and Storage:

- After each use, wipe down sockets to remove dirt, grease, and debris.
- Store the sockets in their original blow-molded case to protect them from damage and loss.
- Keep the case in a dry environment to prevent moisture buildup.

Corrosion Resistance:

The black oxide finish provides a layer of protection against corrosion. While durable, this finish can wear over time with heavy use. Regularly inspect sockets for any signs of rust or wear, and apply a light coat of rust-preventative oil if necessary.



Figure 8: Illustration of the manganese phosphate coating, which enhances corrosion resistance.

5. TROUBLESHOOTING

Addressing common issues encountered during socket use.

Fastener Rounding:

- **Issue:** Fastener head becomes rounded, making it difficult to remove or tighten.
- **Solution:** Ensure the correct size socket is used. The GEARWRENCH off-corner loading design is specifically engineered to minimize this issue by applying force to the fastener flats. If rounding occurs, specialized fastener extraction tools may be required.

Socket Slippage:

- **Issue:** Socket slips off the fastener or impact tool.
- **Solution:** Verify the socket is fully seated on the fastener and securely attached to the impact tool. Check for any debris or wear that might prevent proper engagement.

6. SPECIFICATIONS

Feature	Detail
Brand	GEARWRENCH
Model Number	84916N
Material	Chrome Molybdenum Steel
Finish Type	Black Oxide
Number of Pieces	44
Drive System	6 Point
Drive Bit Shank Style	3/8 inch
Measurement System	SAE & Metric
Item Weight	10.5 pounds
Product Dimensions	15.3 x 11.9 x 3.4 inches

7. WARRANTY AND SUPPORT

This GEARWRENCH socket set comes with a Standard Limited Lifetime Warranty. For warranty claims or product support, please refer to the official GEARWRENCH website or contact their customer service. Visit the official GEARWRENCH Store for more information:[GEARWRENCH Store](#)

8. PRODUCT VIDEOS

GEARWRENCH At Work

Your browser does not support the video tag.

This video demonstrates the GEARWRENCH tools in various professional work environments, showcasing their application and durability.

GEARWRENCH Impact Sockets

Your browser does not support the video tag.

An overview video highlighting the features and benefits of GEARWRENCH impact sockets, including their robust construction and design for demanding tasks.

Product Overview Video

Your browser does not support the video tag.

A concise product overview video detailing the components and general characteristics of the socket set.