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DURATECH DURATECH-55SAE-METRIC-1/2

DURATECH 55-Piece 1/2-inch Impact Socket Set Instruction Manual

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1. PRODUCT OVERVIEW

The DURATECH 55-Piece 1/2-inch Impact Socket Set is engineered for durability and performance in demanding applications. This comprehensive set includes a variety of standard and deep impact sockets, extension bars, and adapters, all designed for use with 1/2-inch drive impact wrenches. Each component is crafted from heat-treated chrome vanadium steel with a black phosphate finish for corrosion resistance and features laser-etched sizes for easy identification.

The sockets feature a 6-point design, providing a secure grip and effective torque transfer, minimizing the risk of rounding fasteners. This set is suitable for a wide range of tasks, from automotive repair to industrial maintenance.

Heat treated chrome vanadium
Steel black phosphate finish
Laser etched size



Image 1.1: A DURATECH impact socket, highlighting its heat-treated chrome vanadium steel construction, black phosphate finish, and clear laser-etched size markings for durability and easy identification.

Super strong locking force

**Comprehensive Touching
for effective torque**

6-point Socket Design



Image 1.2: Several DURATECH impact sockets, illustrating their 6-point socket design which ensures a super strong locking force and comprehensive contact for effective torque application.

2. PRODUCT COMPONENTS

This 55-piece set includes a comprehensive selection of 1/2-inch drive impact sockets and accessories, designed to meet various fastening needs. All components are organized within a robust storage case for convenience and protection.

Set Contents:

- **Standard Impact Sockets (6-point):** A range of common SAE and Metric sizes.
- **Deep Impact Sockets (6-point):** A range of common SAE and Metric sizes for fasteners with extended threads or in recessed areas.
- **Impact Extension Bars:** Various lengths to provide extended reach.
- **Impact Adapters:** For versatility with different drive sizes.
- **Flip Socket:** A specialized socket for specific applications.
- **Robust Storage Case:** Keeps all components organized and protected.

- Adaptable, suitable for many tools
- Inflexible in narrow space
- Comprehensive Touching



Image 2.1: A collection of DURATECH impact tools, including various sockets, extension bars, and adapters, demonstrating the set's adaptability for numerous applications.

The sizes of Sockets and Extensions

6pt standard impact sockets



6pt deep impact sockets



Image 2.2: A comprehensive visual guide detailing all the standard and deep impact socket sizes, impact extension bars, and impact adapters included in the 55-piece set.

3. SETUP

Before using your DURATECH Impact Socket Set, ensure you are familiar with the components and proper safety procedures.

3.1 Initial Inspection

1. Unpack the socket set and inspect all components for any signs of damage or manufacturing defects.
2. Familiarize yourself with the different socket sizes (SAE and Metric) and types (standard and deep), as well as the extension bars and adapters.
3. Ensure the storage case latches securely to keep tools organized and protected.

3.2 Safety Precautions

- Always wear appropriate personal protective equipment (PPE), including safety glasses, to protect against flying debris.
- Ensure your impact wrench is in good working condition and compatible with 1/2-inch drive sockets.

- Never use damaged or worn sockets, as this can lead to fastener damage or personal injury.
- Keep the work area clean and well-lit.

4. OPERATING INSTRUCTIONS

Follow these guidelines for safe and effective use of your DURATECH Impact Socket Set.

4.1 Selecting the Correct Socket

1. Identify the correct size and type of socket (standard or deep) that precisely fits the fastener. A snug fit prevents rounding of the fastener head.
2. For recessed fasteners or those with long threads, select a deep impact socket.
3. Use extension bars for increased reach in confined spaces.

4.2 Attaching to an Impact Wrench

- Align the square drive of the socket (or extension/adaptor) with the anvil of your 1/2-inch impact wrench.
- Push the socket firmly onto the anvil until it locks into place. Ensure it is fully seated to prevent it from detaching during operation.

4.3 Fastening and Loosening

- Position the socket squarely onto the fastener head.
- Apply steady pressure and activate the impact wrench.
- For loosening, ensure the impact wrench is set to the counter-clockwise (reverse) direction.
- For tightening, ensure the impact wrench is set to the clockwise (forward) direction. Avoid overtightening, which can damage fasteners or components. Always refer to manufacturer torque specifications when available.
- After use, remove the socket from the impact wrench by pulling it off the anvil.



Image 4.1: A collage depicting the DURATECH impact socket set being used in various practical applications, including tire removal and engine maintenance, demonstrating its versatility.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your DURATECH Impact Socket Set.

5.1 Cleaning

- After each use, wipe down sockets and accessories with a clean, dry cloth to remove dirt, grease, and debris.
- For stubborn grime, use a mild degreaser and a brush, then wipe dry immediately to prevent corrosion.

5.2 Inspection

- Regularly inspect all sockets and accessories for signs of wear, cracks, chips, or deformation.
- Pay close attention to the drive end and the fastener engagement points.
- Replace any damaged components immediately to prevent injury or damage to fasteners.

5.3 Storage

- Store the socket set in its robust case in a dry, clean environment, away from direct sunlight and extreme temperatures.
- Ensure all components are securely placed in their designated slots within the case to prevent rattling and damage.



Robust Case
makes the tools more **organized**

Image 5.1: The DURATECH 55-piece impact socket set displayed within its robust, organized storage case, emphasizing the importance of proper storage for tool protection and accessibility.

6. TROUBLESHOOTING

This section addresses common issues you might encounter while using your impact socket set.

6.1 Socket Slipping on Fastener

- **Cause:** Incorrect socket size, worn socket, or worn fastener head.
- **Solution:** Ensure you are using the correct size socket for the fastener. Inspect the socket for wear; replace if damaged. If the fastener head is rounded, consider using a specialized fastener extractor.

6.2 Socket Stuck on Impact Wrench Anvil

- **Cause:** Dirt or debris in the anvil mechanism, or excessive force during attachment.

- **Solution:** Apply a small amount of penetrating oil to the anvil and socket connection. Gently twist and pull the socket. Ensure the anvil mechanism is clean before reattaching.

6.3 Socket Breaking or Cracking

- **Cause:** Exceeding the socket's torque capacity, using a non-impact rated socket with an impact wrench, or material defect.
- **Solution:** Always use impact-rated sockets with impact wrenches. Do not exceed the recommended torque for the fastener or tool. Replace any broken or cracked sockets immediately.

7. SPECIFICATIONS

Feature	Specification
Model Number	DURATECH-55SAE-METRIC-1/2
Drive Size	1/2 inch (1.3 cm)
Number of Pieces	55
Material	Chrome Vanadium Steel
Finish	Black Phosphate, Painted
Socket Type	6-point Standard and Deep Impact Sockets
Package Dimensions	53.97 x 34.92 x 13.33 cm
Item Weight	12.38 kg
Manufacturer	HANGZHOU GREATSTAR INDUSTRIAL CO. LTD
UPC	820909659648

8. WARRANTY AND SUPPORT

DURATECH products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official DURATECH website. If you encounter any issues or require technical assistance, please contact DURATECH customer support through their official channels.