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### Master Mechanic TV1010205

# Master Mechanic 0.5 in. Drive 19mm Impact Shallow Socket User Manual

Model: TV1010205

## Introduction

This user manual provides essential information for the safe and effective use of your Master Mechanic 0.5 inch Drive 19mm Impact Shallow Socket. Please read this manual thoroughly before use and retain it for future reference.
The Master Mechanic 1/2 inch drive 19mm impact shallow socket is engineered from durable chrome molybdenum alloy steel, designed for heavy-duty applications. Its features include hard-stamped size markings for permanent identification and chamfered ends for easy attachment to driving tools and fasteners.

## Product Overview



Figure 1: An assortment of Master Mechanic hand tools, showcasing the range of products including sockets, wrenches, screwdrivers, and pliers. The 19mm impact shallow socket is part of this comprehensive tool family.

The 19mm Impact Shallow Socket is a specialized tool designed for use with 0.5 inch drive impact wrenches or ratchets. Its shallow design is ideal for applications where space is limited, while its robust construction ensures longevity under high torque conditions.

## Safety Information

- Always wear appropriate personal protective equipment (PPE), including safety glasses, when using impact tools.
- Ensure the socket is fully seated on the fastener and the drive tool before applying torque.
- Do not use damaged or worn sockets. Inspect the socket for cracks or deformation before each use.

- Avoid using chrome sockets with impact wrenches, as they are not designed for impact use and may shatter. This specific socket is made of chrome molybdenum alloy steel, suitable for impact use.
- Keep hands and fingers clear of moving parts and pinch points.
- Store sockets in a clean, dry place to prevent corrosion.

## Setup

1. **Select the Correct Tool:** Ensure you are using a 0.5 inch drive impact wrench, ratchet, or breaker bar that is compatible with the socket.
2. **Inspect the Socket:** Before attaching, visually inspect the 19mm impact shallow socket for any signs of damage, such as cracks, chips, or excessive wear.
3. **Attach the Socket:** Align the square drive opening of the socket with the drive anvil of your tool. Push the socket firmly onto the anvil until it clicks into place, ensuring a secure connection. The chamfered ends facilitate easy attachment.
4. **Verify Fit:** Confirm that the 19mm socket fits snugly onto the fastener (e.g., nut or bolt head) you intend to work on. A proper fit prevents rounding of the fastener and damage to the socket.

## Operating Instructions

1. **Position the Socket:** Place the 19mm impact shallow socket squarely onto the fastener. Ensure it is fully engaged and not at an angle.
2. **Apply Torque:**
    - **With an Impact Wrench:** Activate the impact wrench, applying controlled bursts of power until the fastener is tightened or loosened as required. Avoid over-tightening.
    - **With a Ratchet or Breaker Bar:** Apply steady, even pressure to the handle of the ratchet or breaker bar. For loosening stubborn fasteners, a breaker bar provides greater leverage.
3. **Remove the Socket:** Once the task is complete, pull the socket straight off the fastener. Then, detach the socket from the drive tool by pulling it firmly.
4. **Clean After Use:** Wipe down the socket to remove any dirt, grease, or debris.

## Maintenance

- **Cleaning:** After each use, clean the socket with a dry cloth to remove dirt, oil, and debris. For stubborn grime, a mild degreaser can be used, followed by thorough drying.
- **Lubrication:** While not typically required for sockets, a light coat of rust-preventative oil can be applied if storing in a humid environment.
- **Inspection:** Regularly inspect the socket for signs of wear, such as rounded corners, cracks, or deformation. Pay close attention to the drive end and the hex opening.
- **Storage:** Store the socket in a dry, organized manner, preferably in a tool tray or box, to prevent loss and protect it from damage and corrosion.

## Troubleshooting

| Problem | Possible Cause | Solution |
| --- | --- | --- |

| Problem | Possible Cause | Solution |
|---|---|---|
| Socket slips on fastener. | Incorrect socket size; Worn fastener; Worn socket. | Ensure correct 19mm size; Replace worn fastener; Replace worn socket. |
| Socket difficult to attach/detach from tool. | Dirt/debris in drive opening; Damaged drive anvil on tool; Burrs on socket drive. | Clean drive opening; Inspect tool's anvil; File off burrs carefully or replace socket. |
| Socket shows signs of cracking/damage. | Excessive force; Improper use (e.g., using with non-impact tools if not designed for it, though this one is impact-rated); Manufacturing defect. | Discontinue use immediately; Replace the socket. |

## Specifications

- **Product Type:** Impact Shallow Socket
- **Drive Size:** 0.5 inches (1/2 inch)
- **Socket Size:** 19mm
- **Material:** Chrome Molybdenum Alloy Steel
- **Height:** 1.49 inches
- **Width:** 1.02 inches
- **Length:** 1.02 inches
- **Weight:** 0.18 pounds
- **Markings:** Hard-stamped for permanent identification
- **Ends:** Chamfered for easy attachment
- **Model Number:** TV1010205

## Warranty and Support

Master Mechanic products are manufactured to high-quality standards. For information regarding warranty coverage, product support, or to inquire about replacement parts, please contact Master Mechanic customer service or visit their official website. Keep your purchase receipt as proof of purchase.
For further assistance, please refer to the contact information provided on the product packaging or the official Master Mechanic website.

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