

## CRAFTSMAN CMMT12019

# CRAFTSMAN CMMT12019 47-Piece Mechanics Tool Set User Manual

Model: CMMT12019

## 1. INTRODUCTION

This manual provides instructions for the proper use, care, and maintenance of your CRAFTSMAN CMMT12019 47-Piece Mechanics Tool Set. Designed for automotive repair, general construction, and DIY tasks, this set offers a comprehensive selection of SAE and Metric sockets and wrenches in a portable soft storage case. Please read this manual thoroughly before using the tools to ensure safe and effective operation.

## 2. PRODUCT OVERVIEW: COMPONENTS

The CRAFTSMAN CMMT12019 47-Piece Mechanics Tool Set includes the following components, organized within a soft zipper case for mobility and easy access:

- **3/8" Drive Shallow 6 PT Sockets SAE (10 pieces):** 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16"
- **3/8" Drive 6 PT Deep Sockets SAE (5 pieces):** 5/16", 3/8", 7/16", 1/2", 9/16"
- **3/8" Drive Shallow 6 PT Sockets MM (13 pieces):** 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm
- **3/8" Drive 6 PT Deep Sockets MM (5 pieces):** 9mm, 10mm, 12mm, 13mm, 14mm
- **SAE Combination Wrenches (5 pieces):** 3/8", 7/16", 1/2", 9/16", 5/8"
- **MM Combination Wrenches (6 pieces):** 8mm, 10mm, 12mm, 13mm, 14mm, 15mm
- **3/8" Drive Extension Bars (2 pieces):** 3", 6"
- **3/8" Drive Ratchet (1 piece)**



Figure 2.1: The 47-piece Craftsman Mechanics Tool Set displayed open in its soft storage case, showing all included sockets, wrenches, ratchet, and extension bars.

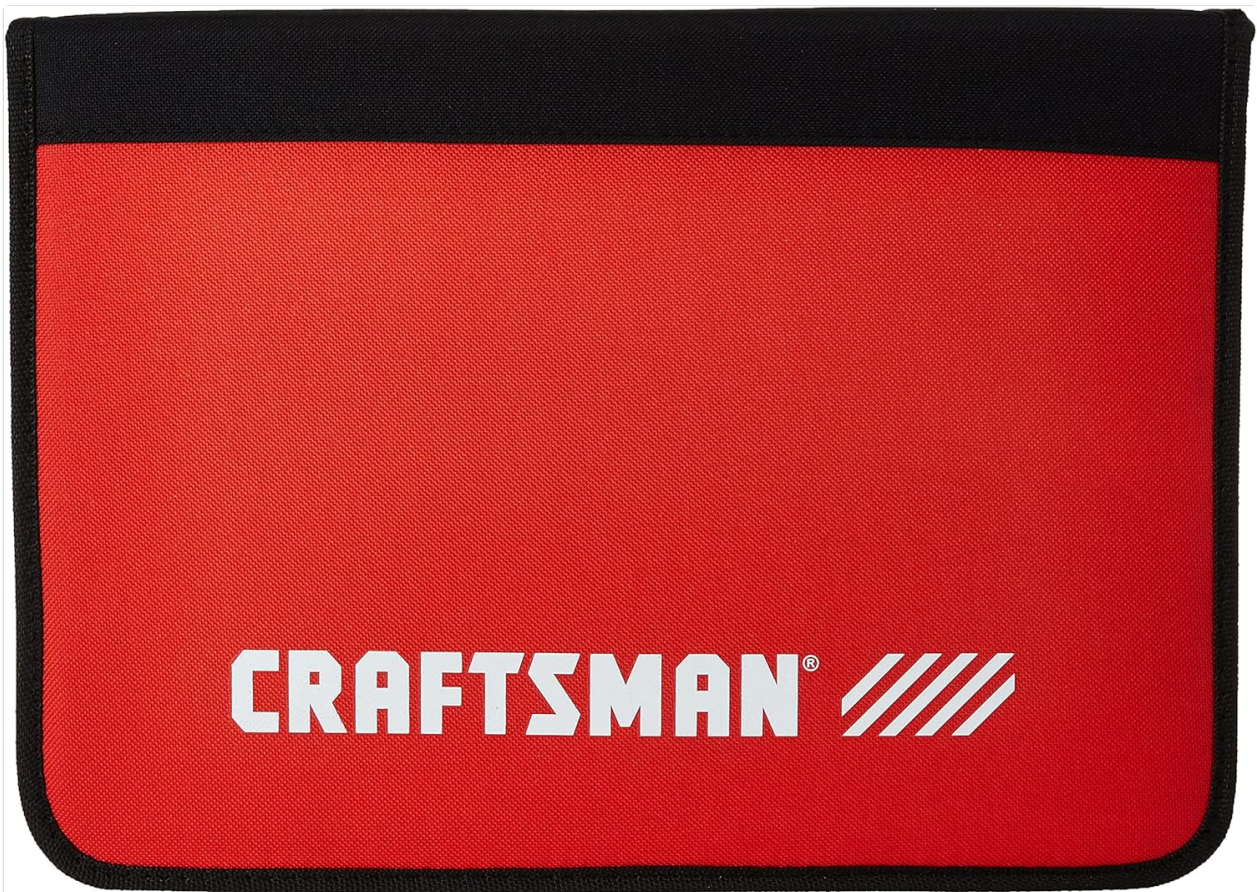


Figure 2.2: An alternative perspective of the Craftsman 47-piece tool set, highlighting the organization of tools within the soft case.

### 3. SETUP

---

The CRAFTSMAN CMMT12019 tool set is designed for immediate use. No assembly is required. Upon receiving the set, simply unzipper the soft case to access the tools. Each tool is secured in its designated slot for organized storage and easy identification.

1. **Inspection:** Before first use, inspect all tools for any signs of damage or manufacturing defects. Do not use damaged tools.
2. **Familiarization:** Take time to familiarize yourself with the different sizes and types of sockets and wrenches included. Note the large markings for quick size identification.
3. **Storage:** When not in use, ensure all tools are returned to their respective places within the soft case and zipped closed to prevent loss and protect the tools.

### 4. OPERATING INSTRUCTIONS

---

Proper operation of hand tools ensures safety and extends tool life. Always select the correct tool for the task.

#### 4.1 Using Ratchets and Sockets

1. **Select the Correct Socket:** Choose a socket that precisely fits the fastener head (nut or bolt). Using an incorrect size can strip the fastener or damage the socket.
2. **Attach to Ratchet:** Press the socket onto the square drive of the 3/8" drive ratchet until it clicks securely into place.
3. **Direction Control:** Use the directional switch on the ratchet head to select tightening (clockwise) or loosening (counter-clockwise) rotation.
4. **Apply Force:** Position the socket firmly on the fastener. Apply steady, controlled force to the ratchet

handle. Avoid sudden jerking motions. The 72-tooth ratchet design allows for minimal arc swing, useful in confined spaces.

5. **Extension Bars:** Use the 3" or 6" extension bars when fasteners are in recessed areas or difficult to reach. Attach the extension bar between the ratchet and the socket.

## 4.2 Using Combination Wrenches

1. **Select the Correct Wrench:** Choose a wrench that matches the size of the fastener. The combination wrenches feature both an open-end and a box-end for versatility.
2. **Positioning:** For initial loosening or final tightening, use the box-end of the wrench as it provides a more secure grip and reduces the risk of slipping. The open-end is useful for quick turns once the fastener is loose.
3. **Apply Force:** Ensure the wrench is fully seated on the fastener. Pull the wrench towards you rather than pushing, as this provides better control and reduces the risk of injury if the wrench slips.

**Safety Precaution:** Always wear appropriate personal protective equipment (PPE), such as safety glasses, when using hand tools. Do not use tools that are damaged or worn. Do not use extension bars or "cheater pipes" on wrenches or ratchets unless specifically designed for such use, as this can overload the tool and cause breakage or injury.

## 5. MAINTENANCE

---

Proper maintenance ensures the longevity and performance of your CRAFTSMAN tools.

- **Cleaning:** After each use, wipe down tools with a clean, dry cloth to remove dirt, grease, and moisture. For stubborn grime, a mild degreaser can be used, followed by thorough drying.
- **Corrosion Resistance:** The tools feature a full polish chrome finish for corrosion resistance. However, prolonged exposure to moisture or harsh chemicals can still cause rust. Store tools in a dry environment.
- **Lubrication:** The ratchet mechanism may benefit from occasional light lubrication with a suitable tool oil to maintain smooth operation. Do not over-lubricate.
- **Storage:** Always store tools in their soft zipper case. This protects them from environmental elements and prevents them from being misplaced or damaged.

## 6. TROUBLESHOOTING

---

This section addresses common issues encountered during tool use.

- **Socket Slipping:** Ensure the socket is the correct size for the fastener and is fully seated. Worn fasteners or sockets can cause slipping. Replace worn components.
- **Ratchet Not Engaging:** Check the directional switch on the ratchet head. Ensure it is fully engaged in either the tightening or loosening position. If the ratchet mechanism feels gritty or sticky, it may require cleaning and light lubrication.
- **Stripped Fasteners:** If a fastener head becomes rounded or stripped, specialized tools (e.g., bolt extractors) may be required. Always use the correct size tool and apply steady force to prevent stripping.
- **Tool Breakage:** Tools are designed for specific torque limits. Excessive force, especially with extension bars not intended for the tool, can cause breakage. Do not use broken tools; they pose a safety risk.

## 7. SPECIFICATIONS

---

Feature	Detail
Brand	CRAFTSMAN
Model Number	CMMT12019
Material	Alloy Steel
Item Package Quantity	1
Head Style	Fixed Square, Hex
Finish Type	Polished
Operation Mode	Mechanical
Item Weight	8.49 pounds
Package Dimensions	14.33 x 10.39 x 2.05 inches
Size	1/4", 3/8" in
Style	47 Piece Set
Number Of Pieces	47
UPC	885911590020

## 8. WARRANTY AND SUPPORT

CRAFTSMAN stands behind the quality of its tools. This product is covered by a **Full Lifetime Warranty**. For detailed information regarding warranty claims, service, or support, please refer to the official CRAFTSMAN website or contact their customer service directly. Keep your purchase receipt as proof of ownership. This tool set meets or exceeds ASME Specifications, ensuring high standards of quality and performance.