

## Draper 97918

# Draper 97918 Combination Spanner Set User Manual

## 1. PRODUCT OVERVIEW

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The Draper 97918 Combination Spanner Set is a comprehensive collection of 25 metric spanners, designed for a wide range of fastening and loosening tasks. Manufactured from high-quality chrome vanadium steel, these spanners are hardened, tempered, and polished chrome plated for enhanced durability and corrosion resistance. The set includes a convenient storage pouch for organization and portability.

### Key Features:

- **25 Spanners:** Sizes ranging from 6mm to 32mm, covering a broad spectrum of applications.
- **Durable Construction:** Made from polished chrome vanadium steel, hardened and tempered for strength.
- **HI-TORQ Ring End:** Features a 15° offset ring end for improved access in confined spaces.
- **Offset Open Jaw:** The open jaw is also offset at 15° for better leverage and accessibility.
- **Corrosion Protection:** Polished chrome plating helps prevent rust and wear.
- **Storage Pouch:** Supplied with a robust storage pouch for easy organization and transport.



Figure 1: The complete Draper 97918 Combination Spanner Set displayed in its storage pouch, showing all 25 spanners from smallest to largest.

## 2. SETUP

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### Unpacking:

1. Carefully remove the spanner set from its packaging.
2. Unroll the storage pouch to access all 25 spanners.
3. Inspect each spanner for any signs of damage during transit. If any damage is found, contact customer support.

### Storage:

The provided storage pouch is designed to keep your spanners organized and protected. Each spanner has a designated slot, ensuring easy identification and preventing loss. After use, always return the spanners to their respective slots in the pouch and roll it up securely.

## 3. OPERATING INSTRUCTIONS

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Combination spanners feature an open-end wrench on one side and a ring (box) end wrench on the other, both typically of the same size. This design offers versatility for various applications.

### Selecting the Correct Spanner Size:

- Always select the spanner that precisely matches the size of the fastener (nut or bolt head). Using an incorrect size can round off the fastener or damage the spanner.
- The set includes sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, and 32mm.

## Using the Open End:

- The open end is ideal for quick engagement and disengagement of fasteners, especially when access from the top is restricted.
- Position the open end fully onto the fastener, ensuring a snug fit.
- Apply force evenly and in the direction that tightens or loosens the fastener.

## Using the Ring End (HI-TORQ):

- The ring end provides a more secure grip on the fastener, reducing the risk of slipping and rounding. It is suitable for applying higher torque.
- The HI-TORQ ring end is offset at 15°, which allows for better knuckle clearance and access to fasteners in recessed areas.
- Slide the ring end completely over the fastener.
- Apply steady pressure to turn the fastener.



Figure 2: A person using a Draper combination spanner to work on an engine, demonstrating practical application of the tool.

## Safety Precautions:

- Always wear appropriate personal protective equipment, such as safety glasses.
- Do not use spanners that are damaged or worn.
- Never extend the handle of a spanner with a pipe or other leverage device, as this can damage the spanner or fastener and cause injury.
- Ensure a stable footing and proper grip before applying force.

## 4. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your Draper spanner set.

## Cleaning:

- After each use, wipe down the spanners with a clean, dry cloth to remove dirt, grease, and moisture.
- For stubborn grime, use a mild degreaser or solvent, then wipe dry immediately.
- Avoid abrasive cleaners or materials that could scratch the polished chrome finish.

## Storage:

- Store the spanners in their original storage pouch in a dry environment to prevent rust.
- Avoid storing in areas with high humidity or extreme temperature fluctuations.

## Inspection:

- Periodically inspect spanners for signs of wear, such as rounded jaws, cracks, or excessive corrosion.
- Replace any damaged spanners to ensure safety and effectiveness.

## 5. TROUBLESHOOTING

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### Spanner Slipping on Fastener:

- **Cause:** Incorrect spanner size, worn fastener, or improper application of force.
- **Solution:** Ensure the spanner size precisely matches the fastener. Use the ring end for a more secure grip. Apply steady, even pressure. If the fastener is worn, consider replacing it.

### Difficulty Accessing Fastener:

- **Cause:** Limited space or obstruction.
- **Solution:** Utilize the 15° offset of both the open and ring ends to gain better access. For very tight spaces, consider alternative tools if necessary.

### Rust or Corrosion:

- **Cause:** Exposure to moisture or improper storage.
- **Solution:** Clean spanners thoroughly after use and store them in the dry storage pouch. Apply a light coat of rust-preventative oil if storing in a humid environment.

## 6. SPECIFICATIONS

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Attribute	Specification
Model Number	97918
Number of Pieces	25
Sizes Included	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32mm
Material	Chrome Vanadium Steel
Finish	Polished Chrome Plated
Head Style	Open End, HI-TORQ Ring End (15° offset)

Item Weight	Approximately 10.35 lbs (4695 Grams)
Product Dimensions	14.65 x 4.96 x 3.94 inches (approximate package dimensions)

## 7. WARRANTY AND SUPPORT

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### Warranty Information:

The Draper 97918 Combination Spanner Set is backed by a **Draper lifetime warranty**. This warranty covers manufacturing defects and material flaws under normal use. For specific terms and conditions, please refer to the official Draper warranty policy or contact Draper customer service.

### Customer Support:

For any questions, concerns, or warranty claims regarding your Draper 97918 Combination Spanner Set, please contact Draper customer support through their official website or the retailer from whom the product was purchased. Please have your product model number (97918) and proof of purchase available when contacting support.