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> SUNEX TOOLS 9710M 3/8-Inch Drive Metric Crowfoot Flare Nut Wrench Set Instruction Manual

Sunex Tools 9710M

SUNEX TOOLS 9710M 3/8-Inch Drive Metric Crowfoot Flare Nut Wrench Set

Model: 9710M | Brand: Sunex Tools

PRODUCT OVERVIEW

The Sunex 9710M 3/8-inch drive metric crowfoot flare nut wrench set is designed for automotive repair and other applications requiring access to fasteners in confined spaces. This 10-piece set includes common metric sizes from 10mm to 19mm, providing versatility for various tasks.



Image: The complete 10-piece Sunex 9710M metric crowfoot wrench set, neatly arranged on its included storage rail. Each wrench is polished and clearly marked with its size.

Key Features:

- **Fully Polished Drop Forged Alloy Steel:** Ensures durability, strength, and corrosion resistance.
- **3/8-Inch Drive:** Compatible with standard 3/8-inch drive ratchets and extensions.
- **Convenient Storage Rail:** Keeps wrenches organized and easily accessible.
- **Comprehensive Metric Sizes:** Includes 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, and 19mm.

10 Piece Set



Image: A visual representation of all ten metric crowfoot wrench sizes included in the set, ranging from 10mm to 19mm, clearly labeled for identification.

SETUP AND PREPARATION

Before using your Sunex crowfoot wrench set, ensure you have the necessary accompanying tools and a safe working environment.

- 1. Inspect Wrenches:** Before each use, visually inspect each crowfoot wrench for any signs of damage, cracks, or wear. Do not use damaged tools.
- 2. Select Correct Size:** Identify the correct metric size crowfoot wrench that precisely fits the fastener you intend to work on. Using an incorrect size can damage the fastener or the wrench.
- 3. Attach to Drive Tool:** Securely attach the selected crowfoot wrench to a 3/8-inch drive ratchet, extension, or torque wrench. Ensure it clicks firmly into place.
- 4. Clear Workspace:** Ensure your work area is well-lit, clean, and free of obstructions.
- 5. Wear Safety Gear:** Always wear appropriate personal protective equipment, including safety glasses, to protect against potential hazards.

Storage Rail

Convenient transport and storage.



Image: The Sunex crowfoot wrench set on its storage rail, positioned on a workbench alongside other common hand tools, illustrating its compact and organized storage.

OPERATING INSTRUCTIONS

Crowfoot wrenches are specifically designed for fasteners in tight or hard-to-reach areas where a standard wrench or socket cannot be used. They are particularly useful for flare nuts on brake lines, fuel lines, and hydraulic systems.

- 1. Accessing the Fastener:** Position the crowfoot wrench over the fastener. Its open-end design allows it to slide over lines or pipes, while the 3/8-inch drive connection allows for a ratchet or extension to be attached at a convenient angle.
- 2. Applying Torque:** Once the crowfoot wrench is securely seated on the fastener, attach your ratchet or torque wrench. Apply steady, controlled force to loosen or tighten the fastener. Avoid sudden jerking motions.
- 3. Working in Confined Spaces:** The compact design of crowfoot wrenches, especially with a 15-degree offset, provides improved clearance for fingers and other obstructions near the fastener. This offset helps in maneuvering the tool in restricted areas.
- 4. Torque Applications:** When using a torque wrench with a crowfoot wrench, remember that the effective

length of the torque wrench changes. If the crowfoot wrench extends the length of the torque wrench, the applied torque will be higher than the setting. Consult a torque extension calculator or formula if precise torque is critical.

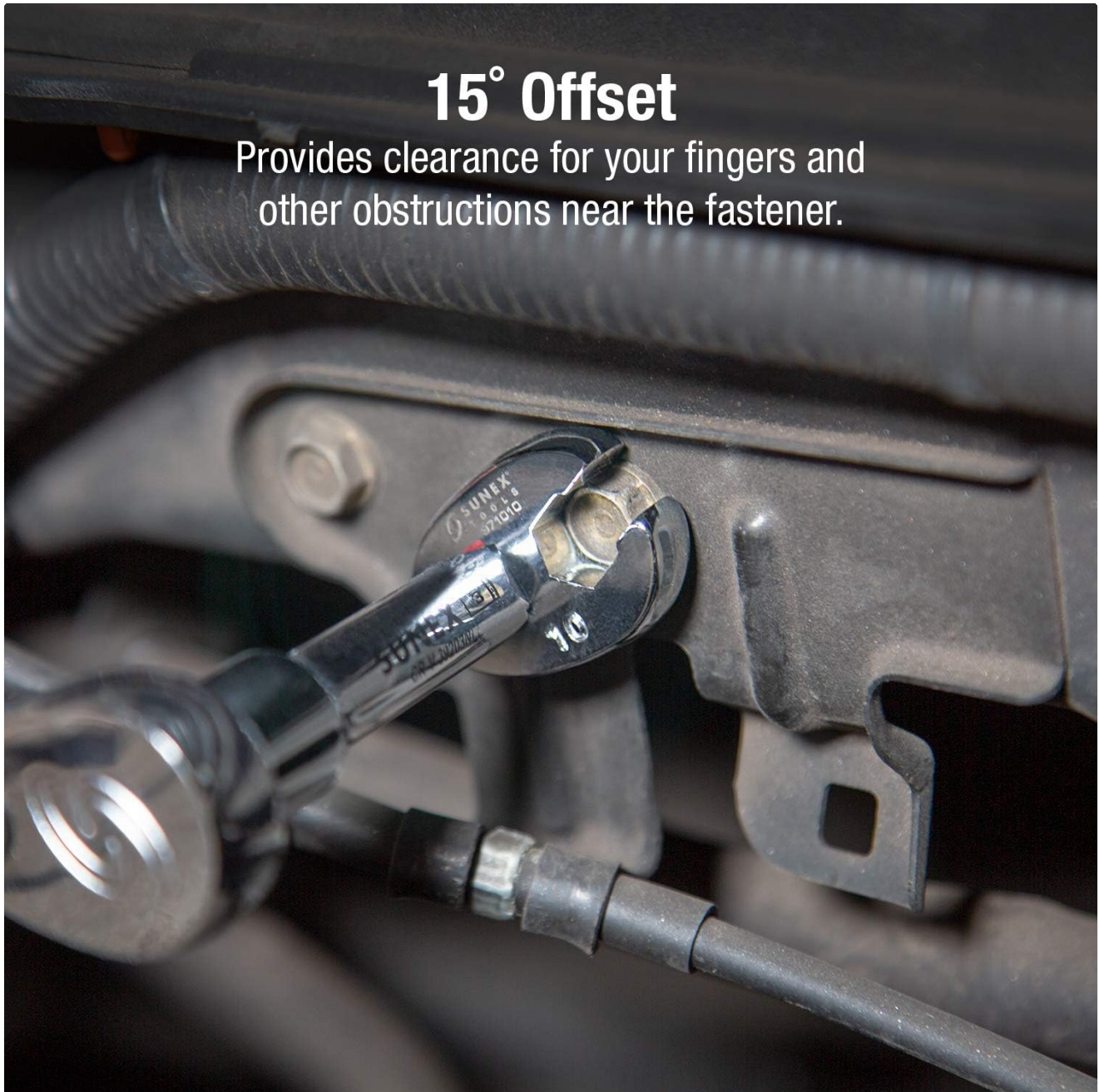


Image: A Sunex crowfoot wrench connected to a ratchet, demonstrating its use on a fastener located in a confined space within an automotive engine compartment, highlighting its 15-degree offset for improved access.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Sunex crowfoot wrench set.

- **Cleaning:** After each use, wipe down the wrenches with a clean cloth to remove dirt, grease, and grime. For stubborn residue, use a mild degreaser and then wipe dry.
- **Storage:** Store the wrenches on the provided storage rail in a dry environment to prevent rust and corrosion. Avoid storing them in damp or humid conditions.
- **Lubrication:** While not typically required for crowfoot wrenches, a light coat of rust preventative oil can be applied if storing for extended periods in a humid environment.
- **Inspection:** Periodically inspect the drive square for wear or damage. Ensure the wrench opening is not

spread or deformed, which could lead to slipping.



Image: An angled view of the Sunex crowfoot wrench set on its metal storage rail, showcasing the polished finish and organized presentation of the tools.

TROUBLESHOOTING

Addressing common issues that may arise during the use of crowfoot wrenches.

- **Wrench Slipping on Fastener:**
 - Ensure the correct size wrench is being used.
 - Verify the wrench is fully seated on the fastener.
 - Check for excessive wear on the wrench jaws or rounded edges on the fastener.
- **Difficulty Attaching to Ratchet/Extension:**
 - Ensure the drive square of the wrench and the drive of the ratchet are clean and free of debris.
 - Verify both tools are 3/8-inch drive.
- **Fastener Damage (Rounding):**
 - This often occurs from using an ill-fitting wrench or applying excessive, uncontrolled force. Always use the correct size and apply steady pressure.
 - Ensure the crowfoot wrench is fully engaged with the fastener's flats.

SPECIFICATIONS

Attribute	Detail
Model Number	9710M
Brand	Sunex Tools
Drive Size	3/8 inch
Measurement System	Metric
Sizes Included	10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm
Material	Alloy Steel

Attribute	Detail
Finish Type	Polished
Head Style	Flare Nut
Item Weight	1.25 Pounds
Product Dimensions	0.38 x 0.1 x 0.16 inches (approximate, for individual wrenches)

Drop Forged Alloy Steel

Provides strength and comfort.



Image: A detailed close-up of several Sunex crowfoot wrenches, emphasizing their polished finish and the quality of the drop-forged alloy steel construction.

WARRANTY INFORMATION

Sunex Tools provides a **Lifetime Warranty** on this product. This warranty covers defects in material and workmanship under normal use. For specific details regarding warranty claims, returns, or service, please refer to the official Sunex Tools warranty policy or contact their customer support.

Note: Warranty terms and conditions may vary. Always consult the manufacturer's official documentation for the

most accurate and up-to-date warranty information.

SUPPORT

For further assistance, technical questions, or to report any issues with your Sunex 9710M crowfoot wrench set, please visit the official Sunex Tools website or contact their customer service department. Always provide the model number (9710M) and a detailed description of your inquiry when seeking support.

You can often find helpful resources, FAQs, and contact information on the manufacturer's official website:

[Visit Sunex Tools Official Website](#)