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- › [GEARWRENCH](#) /
- › [GEARWRENCH 81380 120XP Flexing Handle Ratchet Set Instruction Manual](#)

GEARWRENCH 81380

GEARWRENCH 81380 120XP Flexing Handle Ratchet Set Instruction Manual

1. PRODUCT OVERVIEW

The GEARWRENCH 120XP™ ratchets are engineered for enhanced access and operational speed. The design incorporates a double-stacked pawl mechanism, providing 120 positions and a 3-degree ratcheting arc. Both ratchets feature a low-profile head and a flush-mounted on/off switch, facilitating access in confined spaces. The full polish chrome finish resists rust and corrosion, and the enclosed head design offers resistance to dirt infiltration. This set includes standard and extra-long handle lengths.

Key Features:

- Double-stacked pawls engage a 60-tooth gear, ensuring strength and durability.
- 11-position push-button locking flex head design allows for adjustable angled access in both locked and unlocked positions.
- Compact head design, up to 22% more compact than previous ratchet designs, improves access to hard-to-reach fasteners.
- Enclosed head design provides resistance against dirt infiltration, extending tool life.



Image 1.1: The GEARWRENCH 120XP Flexing Handle Ratchet Set, featuring both the standard and extra-long handle ratchets.

2. SETUP

The GEARWRENCH 120XP Flexing Handle Ratchet Set is ready for immediate use upon removal from packaging. No assembly is required. Ensure the ratchets are clean and free of any debris before first use.

Initial Inspection:

- Inspect both ratchets for any signs of shipping damage.

- Verify the smooth operation of the ratcheting mechanism and the flex head.
- Confirm the forward/reverse switch operates correctly.

3. OPERATING INSTRUCTIONS

These ratchets are designed for efficient fastening and loosening of nuts and bolts when paired with appropriate sockets.

Attaching Sockets:

1. Select the correct size socket for the fastener.
2. Align the square drive of the socket with the drive anvil on the ratchet head.
3. Push the socket firmly onto the drive anvil until it clicks into place. Ensure it is securely seated.

Using the 120XP Ratcheting Mechanism:

- The 120XP mechanism provides 120 engagement positions, allowing for a 3-degree swing arc. This enables work in very tight spaces where a larger swing arc would be impractical.
- To change the direction of rotation (tighten or loosen), use the flush-mounted on/off switch located on the ratchet head. Push the switch to the desired direction.

Adjusting the Flex Head:

- The flex head can be adjusted to 11 different positions to provide optimal access angles.
- To adjust, press the push-button lock on the side of the ratchet head. While holding the button, pivot the head to the desired angle.
- Release the button to lock the head in position. Ensure the head is securely locked before applying torque.



Image 3.1: The longer GEARWRENCH 120XP ratchet being used to access a fastener in an engine compartment, demonstrating the utility of the flexing head.

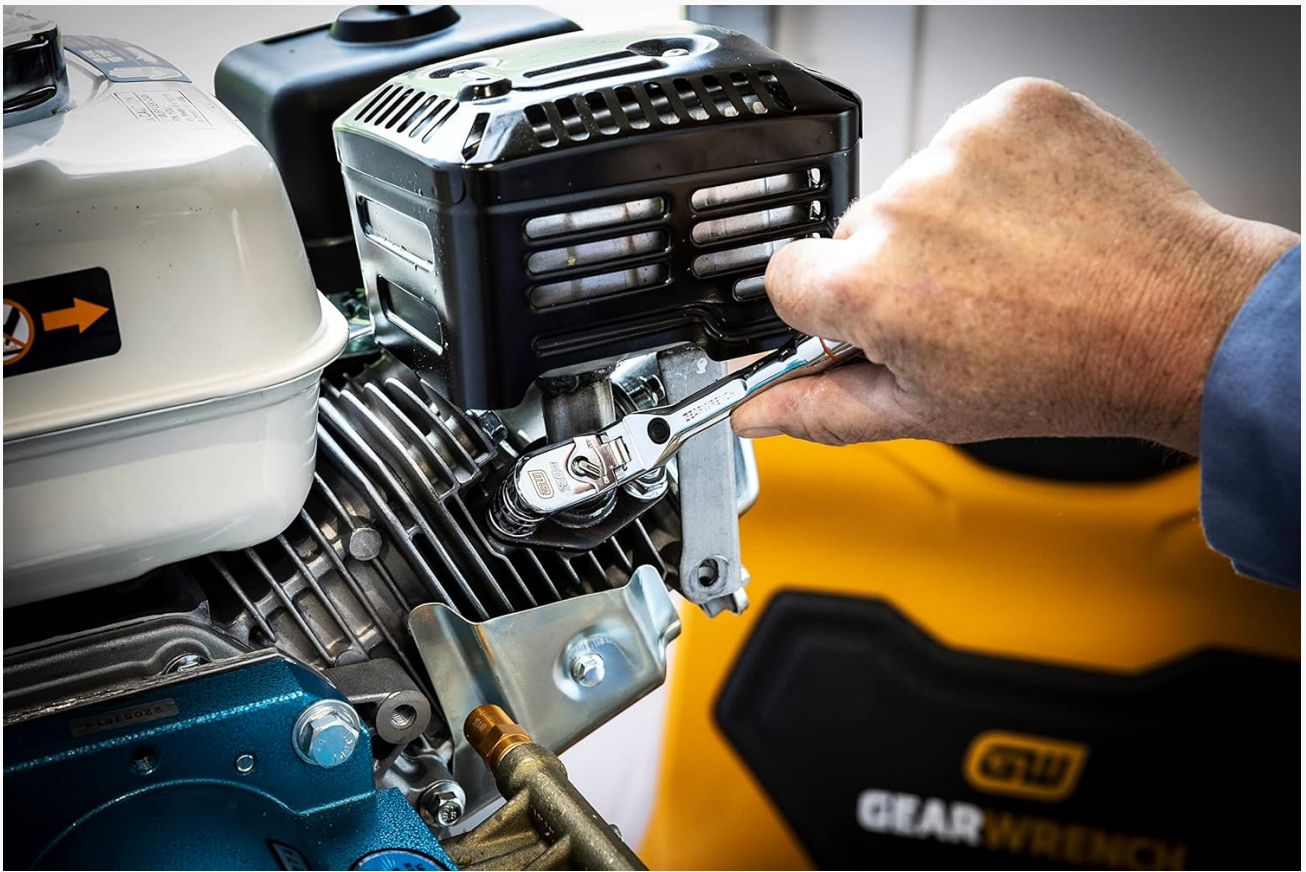


Image 3.2: The shorter GEARWRENCH 120XP ratchet being used on a smaller engine, highlighting its compact design for tight spaces.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your GEARWRENCH ratchets.

Cleaning:

- After each use, wipe down the ratchets with a clean, dry cloth to remove dirt, grease, and debris.
- For stubborn grime, use a mild degreaser or solvent applied to a cloth, then wipe dry. Avoid harsh chemicals that may damage the chrome finish.
- The enclosed head design helps prevent dirt infiltration, but occasional cleaning of the exterior mechanism is still recommended.

Lubrication:

- Periodically apply a small amount of light machine oil to the moving parts of the flex head and the forward/reverse switch to ensure smooth operation.
- Avoid over-lubrication, which can attract dirt.

Storage:

- Store ratchets in a clean, dry environment to prevent rust and corrosion.
- Keep them away from excessive moisture or corrosive chemicals.

5. TROUBLESHOOTING

If you encounter issues with your GEARWRENCH 120XP ratchets, consider the following:

Ratcheting Mechanism Stiffness or Skipping:

- **Cause:** Accumulation of dirt or lack of lubrication within the mechanism.
- **Solution:** Clean the ratchet head thoroughly and apply a small amount of light machine oil. Operate the ratchet back and forth to distribute the lubricant.

Flex Head Not Locking Securely:

- **Cause:** Debris in the locking mechanism or wear.
- **Solution:** Ensure the push-button lock is fully depressed and released. Clean any visible debris around the locking pin. If the issue persists, contact customer support.

Socket Not Attaching Securely:

- **Cause:** Worn drive anvil, worn socket, or debris.
- **Solution:** Clean the drive anvil and the socket. Ensure the socket is the correct size and in good condition. If the issue is with the ratchet's drive anvil, contact customer support.

6. SPECIFICATIONS

Attribute	Detail
Manufacturer	Apex Tool Group
Part Number	81380
Product Dimensions	46.99 x 13.97 x 3.81 cm
Item Model Number	81380
Size	Large (Set includes standard and extra-long handles)
Colour	Chrome
Style	Full Polish
Finish	Polished
Material	Chrome Vanadium Steel
Power Source	Hand Powered
Item Package Quantity	1 (containing 2 ratchets)
Head Style	Teardrop
Usage	Professional
Included Components	1) 120XP Flexing Handle Ratchet Set, 2 Piece
Item Weight	907 g
Country of Origin	Taiwan
Ratcheting Arc	3 degrees

Attribute	Detail
Tooth Count	120 positions (double-stacked pawl design)
Flex Head Positions	11



Image 6.1: The GEARWRENCH 120XP Flexing Handle Ratchet Set displayed on an engine, illustrating their application in automotive work.

7. WARRANTY AND SUPPORT

Warranty Information:

The GEARWRENCH 81380 120XP Flexing Handle Ratchet Set is backed by a **Limited Lifetime Warranty**. This warranty covers defects in material and workmanship under normal use. For specific terms and conditions, or to initiate a warranty claim, please refer to the official GEARWRENCH warranty policy available on their website or contact their customer service.

Customer Support:

For technical assistance, product inquiries, or warranty service, please contact GEARWRENCH customer support through their official website or the contact information provided with your purchase. When contacting support, please have your product model number (81380) and purchase details readily available.



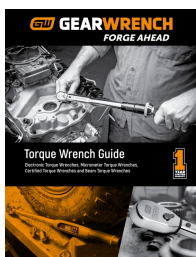
[GEARWRENCH MEGAMOD358 358-Piece Metric Mechanics Tool Set with Rolling Cabinet](#)

Discover the GEARWRENCH MEGAMOD358, a comprehensive 358-piece metric mechanics tool set designed for professional use. This set includes a premium quality collection of metric chrome and impact sockets, ratchets, and wrenches, all organized in modular foam trays within a durable rolling cabinet. Featuring award-winning 120XP Next Generation ratchets for superior access in tight spaces, this tool set enhances productivity and efficiency for demanding jobs.



[GEARWRENCH MEGAMODMRO 614-Piece Master Mechanics Tool Set with Mobile Workstation](#)

Discover the comprehensive GEARWRENCH MEGAMODMRO 614-piece Master Mechanics Hand Tool Set. This professional-grade set includes a mobile workstation, modular foam trays, and over 600 tools across 15 categories, designed for efficiency and organization. Features detailed lists of sockets, wrenches, pliers, screwdrivers, and more.



[GEARWRENCH Torque Wrench Guide: Electronic, Micrometer, and Beam Models](#)

Comprehensive guide to GEARWRENCH torque wrenches, including electronic, micrometer, and beam types. Details features, specifications, and model numbers for precise torque application.



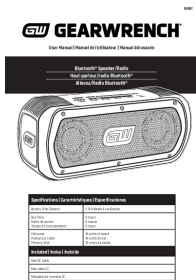
[GearWrench GWSMARTBT Professional Bidirectional Diagnostic Tool Quick Start Guide](#)

A concise guide to setting up and using the GearWrench GWSMARTBT Professional Bidirectional Diagnostic Tool, including product overview, getting started steps, and specifications.



[GEARWRENCH GWSMARTBT Professional Bidirectional Diagnostic Tool User Manual](#)

This manual provides instructions for setting up and using the GEARWRENCH GWSMARTBT Professional Bidirectional Diagnostic Tool. Learn how to connect the device, pair it with your smartphone, activate the software, and perform diagnostics.



[GEARWRENCH Bluetooth Speaker/Radio User Manual](#)

This user manual provides instructions for operating the GEARWRENCH Bluetooth Speaker/Radio, including charging, powering on/off, switching modes, microSD card playback, AUX mode, Bluetooth pairing, handshake mode, FM radio mode, and answering phone calls.