

TONE BRFS27

TONE BRFS27 Bit Ratchet Set Instruction Manual

Model: BRFS27

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, setup, operation, and maintenance of your TONE BRFS27 Bit Ratchet Set. Please read this manual thoroughly before using the product and retain it for future reference. This set is designed for various fastening and loosening tasks using its versatile bit selection and ratchet mechanism.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the tool:

- Wear appropriate personal protective equipment, such as safety glasses, when using hand tools.
- Ensure the bit is securely seated in the ratchet or extension before applying torque.
- Do not use the tool if it is damaged or appears to be malfunctioning.
- Avoid applying excessive force that could damage the tool or the fastener.
- Keep hands and fingers clear of moving parts during operation.
- Store the tool set in its case in a dry, secure location, out of reach of children.
- This tool is not insulated. Do not use it on or near live electrical circuits.

3. PACKAGE CONTENTS

The TONE BRFS27 Bit Ratchet Set includes the following components:

- 1 x Metal Storage Case with Urethane Tray
- 1 x Oscillating Ratchet Handle (1/4 inch / 6.35 mm bit drive)
- 1 x Extension Bar (for T-handle configuration)
- 27 x Assorted Bits:
 - **Plus bits:** No.1 (x2), No.2 (x2), No.3 (x2)
 - **Slotted bits:** 0.8x5.5, 1.0x6.0, 1.2x8.0
 - **Hexagon bits:** 2, 2.5, 3, 4, 5, 6, 8 mm

- **T-Torx bits (with hole):** T6H, T7H, T8H, T9H, T10H, T15H, T20H, T25H, T30H, T40H



Image 3.1: All components of the TONE BRFS27 Bit Ratchet Set displayed in the open metal case.

4. PRODUCT OVERVIEW

The TONE BRFS27 Bit Ratchet Set is a compact and versatile tool kit designed for precision work. It features a unique oscillating ratchet handle that can be configured in multiple ways for optimal access and leverage.



Image 4.1: The oscillating ratchet handle, showing its compact design and push-button oscillation mechanism.



Image 4.2: The ratchet handle alongside the extension bar, which is used for extended reach or T-handle configuration.

5. SETUP

Before using the tool, ensure all components are present and in good condition.

5.1. Inserting a Bit into the Ratchet Handle

1. Select the appropriate bit for your task from the set.
2. Insert the 1/4 inch (6.35 mm) hex end of the bit into the drive opening of the ratchet handle.
3. Push the bit firmly until it clicks into place, ensuring it is securely seated and does not wobble.



Image 5.1: A selected bit securely inserted into the ratchet handle.

5.2. Attaching the Extension Bar

The extension bar can be used to increase the reach of the ratchet handle or to create a T-handle configuration.

1. To extend the reach, insert the 1/4 inch hex end of the extension bar into the ratchet handle's drive opening, similar to inserting a bit.
2. Then, insert the desired bit into the other end of the extension bar.



Image 5.2: The ratchet handle connected to the extension bar, with a bit inserted into the extension bar.

6. OPERATING INSTRUCTIONS

6.1. Using the Ratchet Handle

1. With a bit securely inserted, place the bit onto the fastener head.
2. Adjust the direction of the ratchet mechanism using the small lever on the ratchet head for tightening or loosening.
3. Apply steady pressure and rotate the handle to turn the fastener. The ratchet mechanism allows for continuous turning without repositioning the handle.
4. The ratchet head features a push-button oscillation. Press this button to adjust the angle of the ratchet head for improved access in confined spaces.

6.2. T-Handle Configuration

For increased leverage and control, the ratchet handle can be converted into a T-handle:

1. Locate the matching marks on the dedicated extension bar and the ratchet handle.
2. Align these marks and insert the extension bar through the designated opening in the ratchet handle.
3. Push the extension bar through until it is centered, forming a T-shape.
4. Insert the desired bit into the end of the extension bar. This configuration provides a comfortable grip and enhanced torque for stubborn fasteners.



Image 6.1: The ratchet handle and extension bar assembled into a T-handle configuration.



Image 6.2: The T-handle configuration with a bit inserted, ready for use.

7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your tool set.

- **Cleaning:** After each use, wipe down the ratchet handle, extension bar, and bits with a clean, dry cloth to remove dirt, grease, and debris. For stubborn grime, a mild solvent or degreaser can be used, followed by thorough drying.
- **Lubrication:** Periodically apply a small amount of light machine oil to the moving parts of the ratchet mechanism to ensure smooth operation. Avoid over-lubricating.
- **Storage:** Always store the components back in their designated slots within the metal case. This protects the tools from damage, corrosion, and loss. Store the case in a dry environment.
- **Inspection:** Regularly inspect bits for wear, rounding, or damage. Replace worn bits to prevent damage to fasteners. Check the ratchet handle for any signs of damage or loose components.

8. TROUBLESHOOTING

If you encounter issues with your TONE BRFS27 Bit Ratchet Set, consider the following:

- **Bit slipping from fastener:** Ensure the correct bit size and type are used for the fastener. Verify the bit is fully seated in the ratchet or extension. Replace worn bits.
- **Ratchet mechanism not engaging:** Check the direction lever on the ratchet head. Ensure it is fully engaged in either the tightening or loosening position. Clean the ratchet mechanism if debris is present.
- **Difficulty inserting/removing bits:** Ensure the bit is clean and free of debris. Apply a small amount of lubricant to the bit's hex shank if necessary.
- **T-handle not forming correctly:** Ensure the extension bar is aligned with the matching marks on the ratchet handle and pushed through completely.

For issues not resolved by these steps, contact TONE customer support.

9. SPECIFICATIONS

Feature	Specification
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Model Number	BRFS27
Brand	TONE
Drive Size	1/4 inch (6.35 mm) Hex
Number of Pieces	27 (Bits) + Ratchet Handle + Extension Bar
Material	Metal
Finish Type	Polished
Item Weight	520 grams (approx. 18.2 oz)
Included Components	Metal Case, Urethane Tray, Ratchet Handle, Extension Bar, 27 Bits

10. WARRANTY AND SUPPORT

For warranty information or technical support regarding your TONE BRFS27 Bit Ratchet Set, please refer to the warranty card included with your purchase or visit the official TONE website. You may also contact your retailer for assistance.

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