

VESSEL IBMG50K003

VESSEL Impact Ball Torsion Bits Assortment IBMG50K003 Instruction Manual

Model: IBMG50K003

1. INTRODUCTION AND OVERVIEW

This manual provides essential information for the safe and effective use of your VESSEL Impact Ball Torsion Bit Assortment IBMG50K003. This set includes five specialized power bits (PH2, PH2, SQ2, T20, T25) and a magnetic charge holder, designed for high-power impact drivers. The bits feature impact ball torsion technology and are constructed from VoHA special alloy steel with a hardness of HRC62 for enhanced durability.

2. PRODUCT COMPONENTS

The VESSEL IBMG50K003 set includes the following components:

- 2 x PH2 Phillips Head Impact Ball Torsion Bits
- 1 x SQ2 Square Head Impact Ball Torsion Bit
- 1 x T20 Torx Head Impact Ball Torsion Bit
- 1 x T25 Torx Head Impact Ball Torsion Bit
- 1 x Magnetic Charge Holder (for magnetizing/demagnetizing bits)



Image 2.1: Overview of the VESSEL Impact Ball Torsion Bit Set, showing the five bits and the red magnetic charge holder.

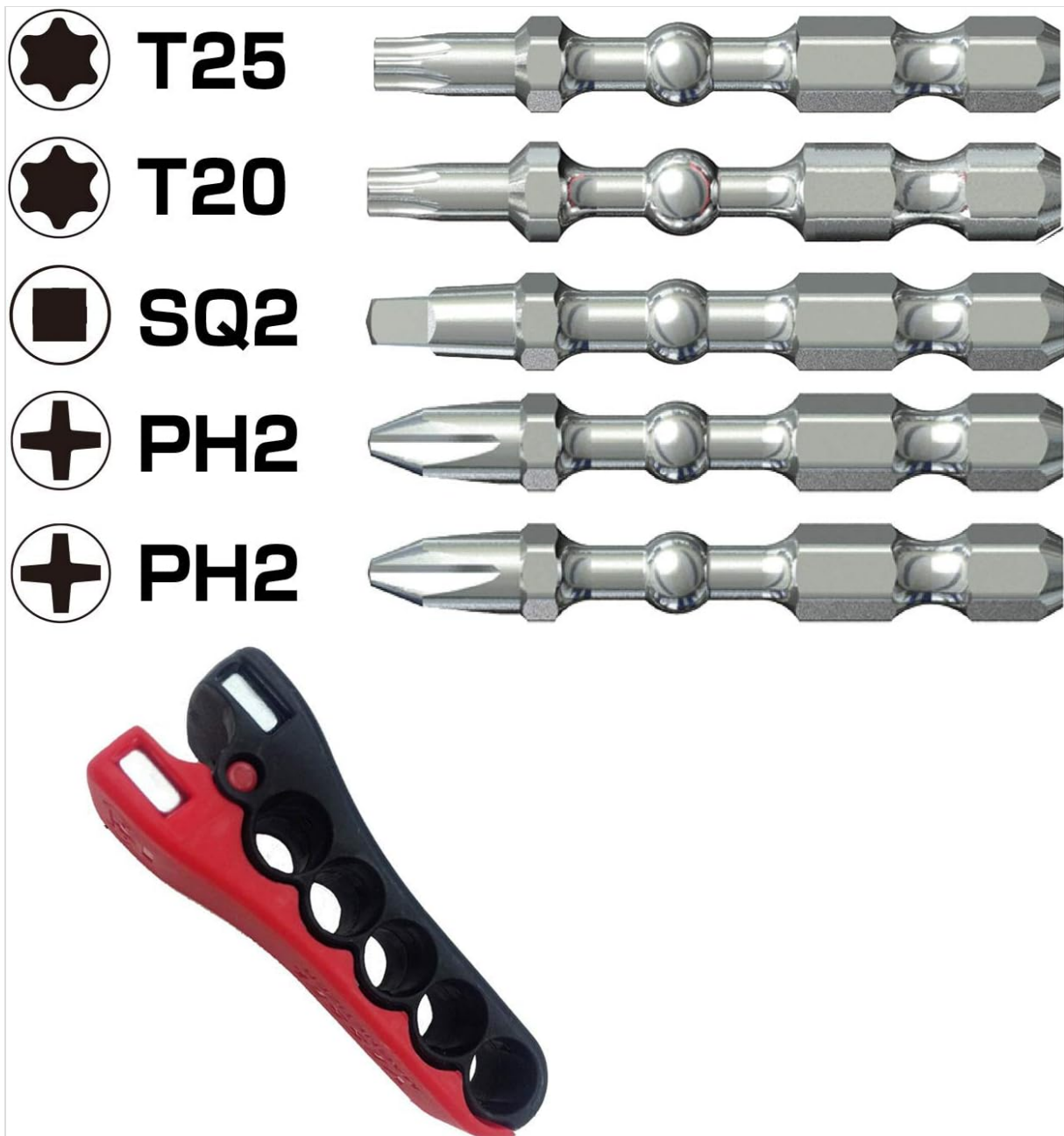


Image 2.2: Detailed view of the individual bits, clearly showing the PH2, SQ2, T20, and T25 designations.

3. SETUP AND PREPARATION

Before using the bits, ensure your impact driver is in good working condition and that you are wearing appropriate personal protective equipment (PPE), such as safety glasses.

3.1 Attaching a Bit to an Impact Driver

1. Select the appropriate bit type (PH2, SQ2, T20, or T25) for your fastener.
2. Insert the 1/4" hex shank of the bit into the chuck of your impact driver. Ensure it is fully seated and securely locked in place.

3.2 Magnetizing/Demagnetizing Bits

The included magnetic charge holder allows for easy magnetization and demagnetization of the bits.

- **To Magnetize:** Slide the bit through the '+' (plus) opening of the magnetic holder. Repeat a few times for stronger magnetization.
- **To Demagnetize:** Slide the bit through the '-' (minus) opening of the magnetic holder. Repeat a few

times to remove magnetism.

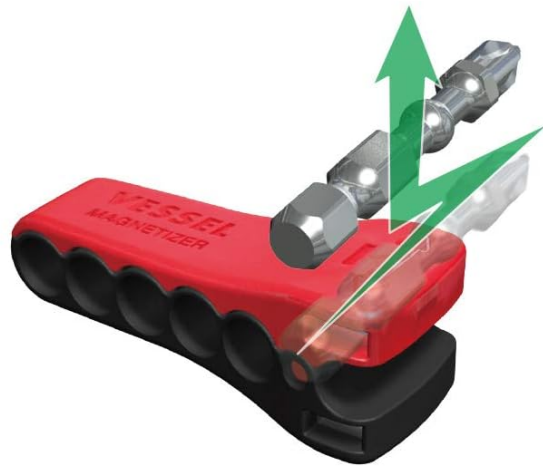


Mag Charge!

Eazy Magnetizing and Demagnetizing by friction.



+ Magnetize



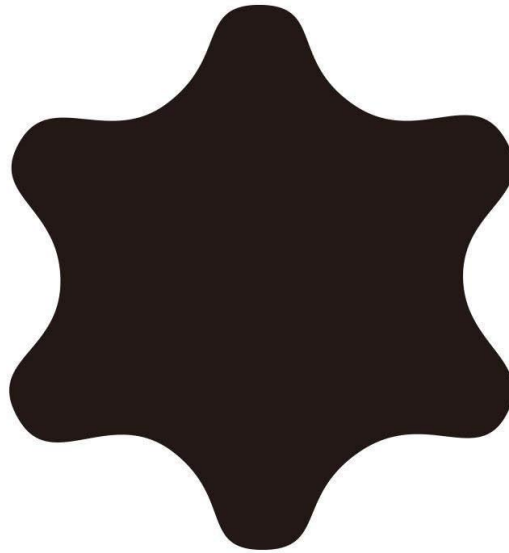
-Demagnetize

Image 3.1: Visual guide for magnetizing and demagnetizing bits using the magnetic charge holder.

4. OPERATING INSTRUCTIONS

These impact ball torsion bits are designed to absorb shocks during high-power impact driving, reducing wear on the bit and fastener.

1. Ensure the bit is securely inserted into your impact driver.
2. Align the bit with the fastener head, applying firm, steady pressure.
3. Engage the impact driver. The torsion zone in the bit is designed to flex and absorb rotational impact forces, providing a more stable drive and reducing cam-out.
4. Continue driving until the fastener is seated to the desired depth.



TORX®

Image 4.1: Diagram showing how the ball torsion part of the bit absorbs shocks, enhancing durability.



Image 4.2: Example of an impact driver being used with a VESSEL bit for fastening.

5. MAINTENANCE

Proper maintenance extends the life of your VESSEL bits.

- **Cleaning:** After use, wipe bits clean of any debris, dust, or metal shavings. A dry cloth is usually sufficient.
- **Storage:** Store bits in a dry environment to prevent rust. The included holder or a dedicated bit case is recommended.
- **Inspection:** Periodically inspect bits for signs of wear, damage, or excessive rounding of the tip. Replace worn bits to prevent damage to fasteners.

6. TROUBLESHOOTING

If you encounter issues during use, consider the following:

- **Bit Slipping/Cam-out:** Ensure you are using the correct bit type and size for the fastener. Apply firm, consistent pressure to keep the bit engaged.
- **Difficulty Picking Up Fasteners:** If the bit is not magnetic enough, use the magnetic charge holder

to re-magnetize it (refer to Section 3.2).

- **Bit Breakage:** Ensure the bit is fully seated in the impact driver chuck. Avoid excessive side pressure or using damaged bits.

7. SPECIFICATIONS

Feature	Specification
Brand	VESSEL
Model Number	IBMG50K003
Bit Types Included	PH2 (x2), SQ2 (x1), T20 (x1), T25 (x1)
Drive Bit Shank Style	1/4" Hex
Material	VoHA Special Alloy Steel
Hardness	HRC62 (Highest Hardness)
Features	Impact Ball Torsion Technology, Magnetized
Item Length	1.97 Inches
Number of Pieces	5 (bits) + 1 (holder)
Country of Origin	Japan

8. SAFETY INFORMATION

- Always wear appropriate eye protection (safety glasses) when operating power tools.
- Ensure the bit is correctly inserted and secured in the impact driver chuck before operation.
- Do not use damaged or worn bits, as this can lead to injury or damage to the fastener/workpiece.
- Keep hands and loose clothing away from rotating parts.
- Use the correct bit type and size for the fastener to prevent stripping or damage.
- Keep out of reach of children.

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official VESSEL website or contact your point of purchase. Specific warranty terms and conditions may vary by region and retailer. You can visit the official VESSEL store for more product information:[VESSEL Store on Amazon](#)