

VESSEL 9308EVA

VESSEL MEGADORA Tang-Thru Screwdriver Set 9308EVA Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use, maintenance, and care of your VESSEL MEGADORA Tang-Thru Screwdriver Set 9308EVA. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

2. PRODUCT OVERVIEW

The VESSEL MEGADORA Tang-Thru Screwdriver Set 9308EVA is an 8-piece collection of high-quality screwdrivers designed for demanding tasks. Featuring a tang-thru design for enhanced durability and a Jawsfit tip for superior screw engagement, this set is suitable for a wide range of applications in professional and home environments. The set comes organized in an EVA foam tray for convenient storage and easy access.

VESSEL®

No. 9308EVA

MEGADORA



Image 2.1: The complete VESSEL MEGADORA Tang-Thru Screwdriver Set 9308EVA, neatly arranged in its custom EVA foam storage tray.

3. COMPONENTS

The 9308EVA set includes 8 screwdrivers, each designed for specific screw types and sizes. The set comprises both Phillips (JIS) and Slotted screwdrivers, with various shaft lengths and tip sizes to accommodate diverse fastening needs.



⊕ 1×75



⊕ 2×150



⊕ 3×150



⊖ 5.5×75



⊖ 6×150



⊖ 8×150



⊕ 2×25



⊖ 6×25



Image 3.1: An illustration detailing the specific sizes and types of screwdrivers included in the 9308EVA set.

• **Phillips (JIS) Screwdrivers:**

- PH1 x 75mm
- PH2 x 150mm
- PH2 x 25mm (Stubby)
- PH3 x 150mm

• **Slotted Screwdrivers:**

- SL5.5 x 75mm
- SL6 x 150mm
- SL6 x 25mm (Stubby)
- SL8 x 150mm

4. KEY FEATURES

4.1. Tang-Thru Design

Each screwdriver in this set features a full-length tang that extends from the tip through the handle to a metal end cap. This design provides maximum strength and allows for hammering on the end cap without damaging the handle, making it suitable for breaking loose stubborn fasteners.

4.2. Jawsfit Tip

The Jawsfit tip design is engineered to bite into the screw head, significantly reducing cam-out (when the screwdriver slips out of the screw head). This provides a more secure grip and allows for greater torque transfer, minimizing damage to both the screw and the screwdriver tip.



FEATURING
JAWSFIT
BITES INTO SCREW
REDUCES CAM-OUT

Image 4.1: A detailed view of the Jawsfit tip, highlighting its serrated edges designed to prevent cam-out.

4.3. Hexagonal Bolster

The shaft of many screwdrivers in this set includes a hexagonal bolster near the handle. This feature allows a wrench to be applied for additional leverage and torque when loosening or tightening extremely tight screws.



Hexagonal Bolster for Additional Wrenching

Image 4.2: Demonstrating the use of a wrench on the hexagonal bolster to apply additional turning force.

4.4. JIS Drive Compatibility

VESSEL Phillips head screwdrivers are designed to meet Japanese Industrial Standard (JIS) specifications. While similar to Phillips, JIS screws have slightly different angles and a flatter tip, which can cause standard Phillips drivers to cam out. VESSEL JIS drivers are optimized for a precise fit in JIS screws and also work effectively with standard Phillips screws, reducing the risk of stripping.



Image 4.3: The JIS Drive logo, indicating compliance with Japanese Industrial Standards for screw heads.

5. SETUP

The VESSEL MEGADORA Tang-Thru Screwdriver Set 9308EVA requires minimal setup. Upon receiving the product:

1. **Unpack:** Carefully remove the screwdriver set from its packaging.
2. **Inspect:** Check all screwdrivers for any signs of damage or manufacturing defects. If any issues are found, contact customer support.
3. **Organize:** The screwdrivers are pre-arranged in an EVA foam tray. This tray is designed for convenient storage in toolboxes or drawers, keeping your tools organized and protected.



Image 5.1: The EVA foam tray provides organized storage within a toolbox drawer, allowing for easy selection of the correct tool.

6. OPERATING INSTRUCTIONS

6.1. Selecting the Correct Screwdriver

Always choose the screwdriver with the tip size and type that best matches the screw head. Using an incorrect size

can damage both the screw head and the screwdriver tip.

- For Phillips/JIS screws, match the PH number (e.g., PH1, PH2) to the screw size.
- For slotted screws, select a tip that fits snugly into the slot without being too wide or too narrow.

6.2. Proper Usage Technique

1. **Positioning:** Place the screwdriver tip firmly into the screw head.
2. **Pressure:** Apply downward pressure to keep the tip engaged with the screw head. This is crucial for preventing cam-out, especially with Phillips/JIS screws.
3. **Turning:** Rotate the screwdriver handle clockwise to tighten and counter-clockwise to loosen. Maintain consistent pressure throughout the turning motion.

6.3. Utilizing Tang-Thru and Hexagonal Bolster Features

- **For Stubborn Screws (Tang-Thru):** If a screw is seized, gently tap the metal end cap of the screwdriver with a hammer while applying turning force. This can help break the screw loose. Exercise caution to avoid damaging the workpiece.
- **For Extra Torque (Hexagonal Bolster):** For very tight fasteners, slide an appropriately sized open-end or adjustable wrench onto the hexagonal bolster on the screwdriver shaft. Use the wrench to apply additional rotational force.



Image 6.1: A stubby screwdriver being used in a confined space to secure a metal bracket.

7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your VESSEL screwdrivers.

- **Cleaning:** After each use, wipe down the screwdrivers with a clean, dry cloth to remove dirt, grease, or debris. For stubborn grime, a mild solvent can be used, ensuring it does not damage the handle material.
- **Storage:** Always store the screwdrivers in their EVA foam tray in a dry environment to prevent rust and corrosion. Avoid storing them in damp or humid conditions.
- **Inspection:** Periodically inspect the screwdriver tips for wear or damage. A worn tip can lead to cam-out and damage to screw heads. Replace screwdrivers if tips are significantly damaged.

8. TROUBLESHOOTING

8.1. Screwdriver Tip Slipping (Cam-out)

- **Cause:** Incorrect screwdriver size, insufficient downward pressure, or a worn screw head/screwdriver tip.
- **Solution:** Ensure you are using the correct tip size. Apply firm downward pressure while turning. If the screw head is damaged, consider using a screw extractor. If the screwdriver tip is worn, replace the tool.

8.2. Screw Not Turning

- **Cause:** Screw is seized, rusted, or overtightened.
- **Solution:** For seized screws, use the tang-thru feature by gently tapping the end cap while turning. For additional torque, use a wrench on the hexagonal bolster. Applying penetrating oil to rusted screws may also help.

9. SPECIFICATIONS

Feature	Detail
Brand	VESSEL
Model Name	9308EVA
Number of Pieces	8
Head Style	JIS (Phillips), Slotted
Material	Chrome Vanadium Steel, Resin, Plastic
Special Features	Tang-Thru, Jawsfit Tip, Hexagonal Bolster, EVA Foam Set
Item Weight	2.64 pounds (1.2 kg)
Product Dimensions	15.35 x 7.6 x 1.85 inches (39 x 19.3 x 4.7 cm)
Recommended Uses	Home Appliance, General Repair, Automotive

10. SAFETY INFORMATION

- Always wear appropriate personal protective equipment, such as safety glasses, when using hand tools.
- Do not use screwdrivers as chisels, pry bars, or punches unless specifically designed for such applications (e.g., using the tang-thru feature for light hammering).
- Ensure the screwdriver tip is fully engaged with the screw head to prevent slipping and potential injury.
- Keep tools clean and free of grease or oil to maintain a secure grip.
- Store tools out of reach of children.

11. WARRANTY AND SUPPORT

For information regarding product warranty, returns, or technical support, please refer to the official VESSEL website or contact your authorized VESSEL dealer. Keep your purchase receipt as proof of purchase.

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