

VESSEL 220W-3

VESSEL BALL GRIP 1/4" Hex. Bit Interchangeable Screwdriver (Model 220W-3) Instruction Manual

Model: 220W-3 | Brand: VESSEL

1. INTRODUCTION

The VESSEL BALL GRIP 1/4" Hex. Bit Interchangeable Screwdriver, Model 220W-3, is designed for versatile use in various applications, including the assembly and maintenance of electrical tools, furniture, and automotive components. This tool features a unique ball grip handle for enhanced ergonomics and includes a set of interchangeable bits to cover a wide range of fastening needs.

Key Features:

- Interchangeable driver grip with 3 double-ended bits: (+1, +3 / +2, -6 / PZ2, PZ3).
- Ergonomic BALL GRIP design for comfortable use and reduced fatigue, allowing for various driving methods.
- Provides a 3-inch blade length when a bit is inserted into the handle.
- Compatible with any 1/4" Hex bit that is longer than 2 inches in overall length.
- Includes Pozidrive tips (PZ2 and PZ3), commonly used in European appliances, furniture, and other applications.



Image 1: VESSEL Ball Grip Screwdriver with its interchangeable bits.

2. SETUP

This section details how to prepare your VESSEL Ball Grip Screwdriver for use by inserting and changing the interchangeable bits.

2.1. Inserting a Bit

1. Select the appropriate double-ended bit for your task. The set includes bits with Phillips (+1, +2, +3), Slotted (-6), and Pozidrive (PZ2, PZ3) tips.
2. Hold the screwdriver handle firmly.
3. Insert one end of the chosen bit into the hexagonal opening at the front of the handle. Ensure the bit is fully seated and securely held by the internal mechanism.



Image 2: Demonstrates the process of inserting a bit into the screwdriver handle.

2.2. Changing or Removing a Bit

1. To remove the currently inserted bit, firmly pull it straight out from the handle.
2. To change the tip, simply flip the double-ended bit and re-insert the desired tip into the handle, ensuring it is fully seated.
3. If using a different bit from the set, follow the steps for "Inserting a Bit" with the new bit.



Image 3: The screwdriver handle shown with the three double-ended bits.

3. OPERATING INSTRUCTIONS

The VESSEL Ball Grip Screwdriver is designed for efficient and comfortable fastening. Follow these guidelines for optimal performance.

3.1. General Use

1. **Select the Correct Bit:** Always match the screwdriver tip to the fastener head (e.g., Phillips to Phillips, Slotted to Slotted, Pozidrive to Pozidrive). Using the wrong size or type can damage both the fastener and the bit.
2. **Apply Pressure:** Place the tip of the screwdriver into the fastener head. Apply firm, consistent downward pressure to prevent cam-out (the bit slipping out of the fastener head).
3. **Turn the Handle:** Rotate the handle clockwise to tighten a fastener or counter-clockwise to loosen it. The ergonomic ball grip allows for comfortable rotation and increased torque when needed.



Image 4: The screwdriver in use, demonstrating its application in electrical work.

3.2. Ergonomic Ball Grip

The unique ball grip design provides multiple ways to hold the screwdriver, optimizing for either speed or torque:

- For quick fastening or loosening, hold the slimmer part of the handle and rotate rapidly.
- For applying maximum torque, grip the wider, ball-shaped part of the handle with your palm. This allows for greater leverage and force.

4. MAINTENANCE

Proper maintenance ensures the longevity and performance of your VESSEL Ball Grip Screwdriver.

- **Cleaning:** Wipe the handle and bits with a clean, dry cloth after each use to remove dirt, grease, or debris. For stubborn grime, a mild detergent solution can be used, followed by thorough drying.
- **Storage:** Store the screwdriver and bits in a dry environment to prevent rust. Keep them organized to easily find the correct bit for future tasks.
- **Inspection:** Periodically inspect the bits for wear or damage. Worn tips can lead to stripped fasteners. Replace damaged bits as necessary.

- **Magnetic Tip:** The screwdriver features a magnetic tip for holding fasteners. Ensure the magnetic property is maintained by keeping it away from strong demagnetizing fields.

5. TROUBLESHOOTING

If you encounter issues while using your VESSEL Ball Grip Screwdriver, consider the following common solutions:

- **Bit Slipping/Stripping Fastener:**
 - Ensure you are using the correct bit type and size for the fastener.
 - Apply firm, consistent downward pressure while turning.
 - Inspect the bit tip for wear; a worn tip may need replacement.
- **Bit Not Holding Securely in Handle:**
 - Ensure the bit is fully inserted into the hexagonal opening until it clicks or feels secure.
 - Check for any debris inside the handle's bit receiver that might prevent full insertion.
- **Difficulty Loosening Tight Fasteners:**
 - Utilize the wider, ball-shaped part of the grip for increased torque.
 - Ensure the bit is fully engaged with the fastener head to prevent rounding.

6. SPECIFICATIONS

Feature	Detail
Brand	VESSEL
Model Name	220W-3
Manufacturer Part Number	No.220W-3
Item Type Name	Replaceable screwdriver
Number of Items	1 (Screwdriver handle)
Included Bits	3 double-ended bits (+1, +3 / +2, -6 / PZ2, PZ3)
Head Style	Phillips, Slotted, Pozidriv
Material	Alloy Steel (bits)
Special Feature	Magnetic Tip
Item Dimensions (L x W x H)	3.94 x 1.61 x 1.61 inches (handle)
Bit Compatibility	1/4" Hex bits longer than 2 inches
UPC	827165742879
GTIN	827165742879



Image 5: Technical diagram showing the dimensions of the VESSEL Ball Grip Screwdriver and its bits.

7. WARRANTY AND SUPPORT

For information regarding warranty coverage, product support, or to purchase replacement parts, please contact VESSEL directly through their official website or authorized distributors. Specific warranty terms may vary by region and retailer. Official VESSEL Website: www.vessel.co.jp

© 2026 VESSEL. All rights reserved. This manual is for informational purposes only.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question