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› VESSEL MEGADORA JISDRIVE Screwdriver 6PC. Set Instruction Manual

VESSEL 9806JSPB

VESSEL MEGADORA JISDRIVE Screwdriver 6PC. Set Instruction Manual

1. INTRODUCTION

Thank you for choosing the VESSEL MEGADORA JISDRIVE Screwdriver 6PC. Set. This manual provides essential information for the proper use, care, and maintenance of your new screwdriver set. Designed for precision and durability, these tools are engineered to handle both JIS (Japanese Industrial Standard) and standard Phillips head screws effectively, minimizing cam-out and screw damage.



The complete VESSEL MEGADORA JISDRIVE 6-piece screwdriver set, presented in its retail packaging, showcasing the various screwdriver types and the VESSEL brand.

2. PRODUCT COMPONENTS

This set includes six high-quality JISDRIVE screwdrivers, each designed for specific applications and enhanced performance. The set comprises the following sizes and features:

- **+0 JISDRIVE Screwdriver:** For small, delicate screws.
- **+1 JISDRIVE Screwdrivers (x2):** Two screwdrivers of this size for common applications.
- **+2 JISDRIVE Screwdrivers (x2):** Two screwdrivers of this size for general-purpose use.
- **+3 JISDRIVE Screwdriver:** For larger screws requiring more torque.

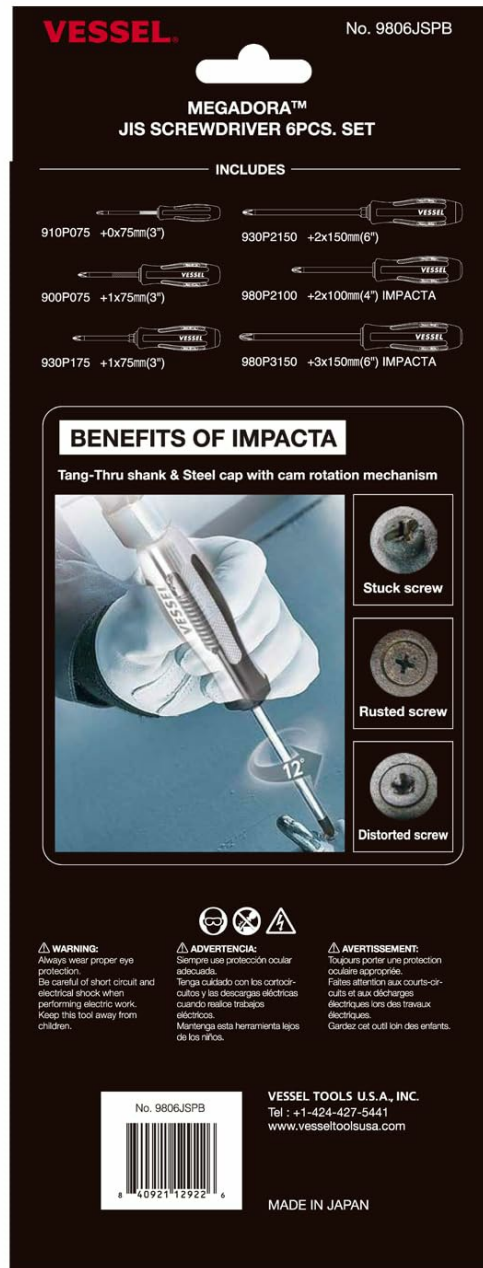
Key features across the set include:

- **Green Grip Screwdrivers:** Feature a useful knurled blade for quick and slip-resistant driving.

- **Red Grip Screwdrivers:** Equipped with a forged hexagonal bolster for applying additional wrenching force. These also feature the JAWSFIT tip.
- **Silver Grip Screwdrivers (IMPACTA):** Designed with a Tang-Thru shank and a steel cap with a cam rotation mechanism. The blade turns 12° counterclockwise when struck with a hammer, aiding in loosening stuck, rusted, or distorted screws.
- **Phillips JAWSFIT Tip (Red & Green Grip):** This specialized tip design firmly grips screws, significantly reducing cam-out.



An arrangement of the six VESSEL MEGADORA JISDRIVE screwdrivers, highlighting the distinct green, red, and silver handle designs, and the various tip sizes included in the set.



The reverse side of the product packaging, illustrating the specific screwdriver sizes (+0, +1, +2, +3) and explaining the benefits of the IMPACTA feature for loosening stuck, rusted, or distorted screws.

3. UNDERSTANDING JISDRIVE

JIS (Japanese Industrial Standard) screws are commonly found in Japanese-manufactured products, including vehicles, motorcycles, electronics, and machinery. While visually similar to Phillips head screws, JIS screws have a slightly different cross-point geometry. Using a standard Phillips screwdriver on a JIS screw can lead to cam-out (the screwdriver slipping out of the screw head) and eventual stripping of the screw head.

VESSEL JISDRIVE screwdrivers are specifically designed to fit JIS screw heads precisely, providing maximum contact and reducing the risk of cam-out. They also work effectively on standard Phillips screws due to their optimized tip design.

DO YOU KNOW



JISDRIVE?

A graphic with the question 'DO YOU KNOW JISDRIVE?' and a lightbulb icon, introducing the concept of JISDRIVE screwdrivers.



VESSEL

JISDRIVE+
FOR ALL SCREWS



Cross Point Tip Set

A close-up image of a JISDRIVE cross point screwdriver tip, accompanied by technical diagrams illustrating its precise geometry, designed for optimal fit in JIS screws.

4. OPERATING INSTRUCTIONS

4.1 General Use

1. **Select the Correct Size:** Always choose the screwdriver tip that best fits the screw head. A proper fit prevents damage to both the screw and the screwdriver.
2. **Apply Firm Pressure:** When turning, apply firm, consistent downward pressure to keep the tip engaged with the screw head.
3. **Turn Smoothly:** Rotate the screwdriver smoothly and steadily. Avoid jerky movements.
4. **Knurled Blade (Green Grip):** For quick fastening or loosening, the knurled section of the blade on green-handled screwdrivers provides extra grip for finger-turning before applying full torque.

4.2 Using the IMPACTA Screwdriver (Silver Grip)

The IMPACTA screwdriver is designed for loosening stubborn, rusted, or overtightened screws.

1. **Position the Tip:** Place the screwdriver tip firmly into the screw head.
2. **Hold Securely:** Hold the screwdriver handle firmly with one hand.
3. **Strike with a Hammer:** Use a hammer to strike the steel cap at the end of the handle. The impact force, combined with the internal cam rotation mechanism, will cause the blade to turn 12° counterclockwise, breaking the screw free.
4. **Normal Use:** This screwdriver can also be used as a standard screwdriver when impact is not required.



An image demonstrating the use of the silver-handled IMPACTA screwdriver, where a hammer is used to strike the steel cap, applying impact force to loosen a stubborn screw.



Tang-Thru shank and Steel Cap with Cam Rotation Mechanism

Blade turns 12° counterclockwise when striking with a hammer

With its impact force applied to the tip by striking, Loosening stuck, rusted, or stripped screws

Possible to use as a normal screwdriver too!

A detailed diagram explaining the internal mechanism of the IMPACTA screwdriver, showing how the Tang-Thru shank and steel cap with a cam rotation mechanism allow the blade to turn 12 degrees counterclockwise upon impact, aiding in screw removal.

4.3 Using the Hexagonal Bolster (Red Grip)

Red-handled screwdrivers feature a hexagonal bolster on the shaft, near the handle.

1. **For Extra Torque:** When a screw requires significant force to turn, a wrench can be applied to the hexagonal bolster.
2. **Apply Wrench:** Select an appropriately sized wrench and place it onto the bolster.
3. **Turn Carefully:** Use the wrench to turn the screwdriver, applying additional torque. Exercise caution to avoid over-tightening or damaging the screw.



Hexagonal Bolster for Additional Wrenching

An image showing a wrench being used on the hexagonal bolster of a red-handled VESSEL screwdriver, demonstrating how additional torque can be applied for tightening or loosening screws.

4.4 Benefits of JAWSFIT Tip

The JAWSFIT tip, found on red and green grip screwdrivers, is engineered to provide superior grip.

- **Reduced Cam-Out:** The unique design of the JAWSFIT tip creates a stronger engagement with the screw head, significantly reducing the tendency for the screwdriver to slip out.
- **Enhanced Driving Power:** This secure fit allows for more efficient transfer of torque, making it easier to drive or remove screws.

FEATURING
JAWSFIT
BITES INTO SCREW

REDUCES CAM-OUT

A magnified view of the VESSEL JAWSFIT screwdriver tip engaging with a screw head, illustrating its unique design that provides a firm grip and reduces cam-out during use.

5. CARE AND MAINTENANCE

Proper care will extend the life and performance of your VESSEL screwdrivers.

- **Cleaning:** Wipe screwdrivers clean after each use to remove dirt, grease, or debris. A damp cloth can be used, followed by thorough drying.
- **Storage:** Store screwdrivers in a dry environment to prevent rust. Keep them organized in a tool roll, tray, or toolbox to protect the tips from damage.
- **Inspection:** Periodically inspect the tips for wear or damage. While VESSEL screwdrivers are durable, extreme misuse can cause damage.
- **Avoid Misuse:** Do not use screwdrivers as chisels, pry bars, or punches. This can damage the tip and compromise the tool's integrity.

6. TROUBLESHOOTING

Most issues with screws can be resolved by ensuring proper tool selection and technique.

- **Screw Head Stripping:** If a screw head is stripping, ensure you are using the correct JISDRIVE tip size. Apply more downward pressure to maintain engagement. For already stripped or very tight screws, utilize the IMPACTA screwdriver (silver grip) as described in Section 4.2.
- **Difficulty Turning:** If a screw is difficult to turn, verify the tip size. For increased leverage, use a wrench on the hexagonal bolster of the red-handled screwdrivers (Section 4.3).
- **Cam-Out:** The JAWSFIT tip is designed to minimize cam-out. If cam-out occurs, ensure the tip is fully seated in the screw head and apply consistent downward pressure.

7. SPECIFICATIONS

Attribute	Detail
Product Dimensions	5 x 1.5 x 13 inches
Item Weight	1.6 Pounds
Model Number	9806JSPB
Manufacturer	VESSEL Co.,Inc
Number of Items	6
Head Style	JIS Cross Point
Material	Tool Steel
Handle Colors	Green, Silver, Red

8. WARRANTY AND SUPPORT

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

Manufacturer Contact:

- **Manufacturer:** VESSEL Co.,Inc
- **Website:** www.vesseltools.com
- **UPC:** 0840921129226