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Voyager Tools VOY-156010

Voyager Tools 10 Ton Porta Power Hydraulic Kit User Manual

Model: VOY-156010

1. Important Safety Information

Read and understand all safety warnings and instructions before operating this 10 Ton Porta Power Hydraulic Kit. Failure to follow these instructions may result in serious injury or property damage. Keep this manual for future reference.

- **Wear Personal Protective Equipment (PPE):** Always wear ANSI-approved safety goggles, heavy-duty work gloves, and steel-toed boots when operating this equipment.
- **Work Area:** Ensure your work area is clean, well-lit, and free from obstructions. Keep bystanders and children away from the operating area.
- **Proper Use:** Use this hydraulic kit only for its intended purpose: lifting, pushing, pulling, bending, straightening, and spreading. Do not exceed the 10-ton load capacity.
- **Inspect Equipment:** Before each use, inspect all components for damage, leaks, or wear. Do not use damaged equipment.
- **Hydraulic Fluid:** Hydraulic fluid is under high pressure. Never attempt to repair or disconnect hydraulic lines while the system is under pressure. Use caution when handling hydraulic fluid.
- **Stability:** Always ensure the load is stable and properly supported before and during operation. Use appropriate blocking or stands.
- **Release Pressure:** Always release all hydraulic pressure before disconnecting components or performing maintenance.

2. Package Contents

Carefully unpack all components and verify that you have received all items listed below. If any parts are missing or damaged, contact customer support immediately.

- 10 Ton Ram
- Spreader Ram
- Flat Base

- Wedge Head
- Spreader Plunger Toe
- Sp Flex Head
- Serrated Saddle
- Male Connector
- 90 Degree "V" Base
- Jack Hose
- 4 Extension Tubes (4", 8", 12", 22")



Image: Voyager Tools 10 Ton Porta Power Hydraulic Kit with various attachments and extensions.

3. Setup and Assembly

Follow these steps to prepare your Porta Power kit for operation:

1. **Connect the Jack Hose:** Securely attach one end of the jack hose to the hydraulic pump and the other end to the 10 Ton Ram. Ensure all connections are tight to prevent leaks.
2. **Select Attachments:** Choose the appropriate ram head (e.g., Flat Base, Serrated Saddle, Wedge Head) and extension tubes (4", 8", 12", 22") for your specific task.
3. **Assemble Components:** Connect the selected ram head to the ram, and if needed, insert extension tubes between the ram and the ram head. Ensure all connections are fully engaged.
4. **Position the Unit:** Place the assembled hydraulic unit in a stable position, ensuring the ram is correctly aligned with the object to be moved or supported.

4. Operating Instructions

4.1. General Operation

1. **Close Release Valve:** Before pumping, ensure the release valve on the hydraulic pump is fully closed by turning it clockwise.
2. **Pump Handle:** Operate the pump handle with steady, even strokes to extend the ram and apply force. Observe the load carefully.
3. **Monitor Load:** Do not exceed the 10-ton capacity. If the ram struggles or the pump becomes difficult to operate, you may be exceeding the capacity.
4. **Release Pressure:** To retract the ram and release pressure, slowly turn the release valve counter-clockwise. The ram will retract gradually. Never open the valve quickly under heavy load.

4.2. Specific Applications

Lifting: Use the Serrated Saddle or Flat Base. Ensure the load is balanced and supported by appropriate stands once lifted.

Pushing: Use the Flat Base or Wedge Head. Position the ram squarely against the object to be pushed.

Spreading: Attach the Spreader Ram or Spreader Plunger Toe. Position the spreading tool between the objects to be separated.

Bending/Straightening: Use the 90 Degree "V" Base or Wedge Head with appropriate support points. Apply gradual pressure.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your Porta Power kit.

- **Hydraulic Fluid Level:** Periodically check the hydraulic fluid level in the pump reservoir. Refill with high-quality hydraulic jack oil if necessary. Do not overfill.
- **Clean Components:** After each use, clean all components to remove dirt, grease, and debris. This prevents contamination and wear.
- **Inspect for Leaks:** Regularly inspect the hose, ram, and pump for any signs of hydraulic fluid leaks. Address leaks immediately.
- **Lubrication:** Lightly lubricate moving parts and threads with a suitable lubricant to prevent rust and ensure smooth operation.
- **Storage:** Store the kit in a clean, dry place, protected from extreme temperatures and moisture. Ensure the ram is fully retracted before storage.

6. Troubleshooting

Problem	Possible Cause	Solution
Ram does not extend or extends slowly	Low hydraulic fluid level Release valve open Air in hydraulic system Overload	Check and refill hydraulic fluid Close release valve fully Bleed air from the system (refer to pump instructions) Reduce load; do not exceed capacity

Problem	Possible Cause	Solution
Ram retracts under load	Release valve not fully closed Internal leak in ram or pump	Ensure release valve is fully closed Contact qualified service personnel
Hydraulic fluid leaks	Loose connections Damaged seals or hose	Tighten all connections Replace damaged seals or hose; contact qualified service personnel
Pump handle feels spongy	Air in hydraulic system	Bleed air from the system (refer to pump instructions)

7. Specifications

Feature	Specification
Model Number	VOY-156010
Load Capacity	10 tons
Maximum Lifting Height	22 Inches
Material	Alloy Steel
Item Weight	81 pounds
UPC	609053678107
Manufacturer	Voyager Tools

8. Warranty and Support

This Voyager Tools 10 Ton Porta Power Hydraulic Kit is manufactured to high-quality standards. For specific warranty details, please refer to the warranty card included with your purchase or visit the official Voyager Tools website.

For technical assistance, replacement parts, or any questions regarding the operation or maintenance of your product, please contact Voyager Tools customer support. Have your model number (VOY-156010) and purchase information ready when contacting support.

Note: Unauthorized repairs or modifications will void the product warranty.

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