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## 10,000 P.S.I. HYDRAULIC HAND PUMP SETUP • OPERATING • MAINTENANCE INSTRUCTIONS

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### IMPORTANT: READ THESE INSTRUCTIONS BEFORE OPERATING

**BEFORE USING THIS DEVICE, READ THIS MANUAL COMPLETELY AND THOROUGHLY, UNDERSTAND ITS OPERATING PROCEDURES, SAFETY WARNINGS AND MAINTENANCE REQUIREMENTS. FAILURE TO DO SO COULD CAUSE ACCIDENTS RESULTING IN SERIOUS OR FATAL PERSONAL INJURY AND/OR PROPERTY DAMAGE.**

The use of hydraulic hand pumps is subject to certain hazards that cannot be prevented by mechanical means, but only by the exercise of intelligence, care, and common sense. It is therefore essential to have owners and personnel involved in the use and operation of equipment who are careful, competent, trained, and qualified in the safe operation of the equipment and its proper use. Hazards such as pressurized hydraulic fluid bursting from hoses or fittings can happen resulting in loss of load, uncontrolled lowering or dropping of load if instructions are not followed. Failure

to avoid hazards could cause accidents resulting in serious or fatal personal injury and/or property damage.

It is the responsibility of the owner to make sure all personnel read this manual prior to using this device. It is also the responsibility of the device owner to keep these instructions intact and in a convenient location for all to see and read. If these instructions are lost or not legible, contact FREEDOM for a free replacement. If the operator is not fluent in English, the product and safety instructions shall be read to and discussed with the operator in the operator's native language by the purchaser/owner or his designee, making sure that the operator comprehends its contents.

### WARRANTY

This product is covered by a Limited Lifetime Warranty. For details see the back cover of FREEDOM's product catalog.

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### WARNING

- Do not use hoses in systems exceeding 10,000 psi (700 bar).
- The system operating pressure must not exceed the pressure rating of the lowest rated component in the system.
- Avoid sharp bends and kinks when routing hydraulic hoses.
- Do not drop heavy objects on hose.
- Do not use the hydraulic hose to carry a hydraulic component.
- Keep hydraulic equipment away from flames and heat.
- Keep hose away from sharp objects and eliminate abrasion.
- Inspect the system before each use. Replace questionable components immediately.
- Use only compatible fluids.
- Make sure quick disconnect fittings are correctly and completely fastened together. Quick disconnect couplers should be hand tightened only. Never use tools.
- Never attempt to disconnect couplers while under system pressure.
- Be sure pressure system and setup are stable before using.
- Never connect a hand pump to any hydraulic system that can return more fluid to the reservoir than its capacity.

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### BEFORE OPERATING

1. Remove the large allen socket pipe plug in the hydraulic connections of the hand pump manifold. Remove any remnants of teflon tape that may still be in the threads of the hydraulic connections.
2. Make sure the hose fitting threads are not crossthreaded. Use at least 1-1/2 wraps of teflon tape (or suitable sealant) on the threads. Make sure the first complete thread is free from tape or sealant so they do not enter and contaminate the hydraulic system.

3. If tubing is used instead of hose, make sure the tubing is supported. Unsupported tubing can lead to premature fitting failure. Always hand mount valves and gages and never allow tubing to support them. Place tube supports 4 to 7 inches behind the fitting.

4. Install any reservoir vent cap that was supplied with your hand pump before operating.

**WARNING: This hand pump's maximum working pressure is 10,000 PSI. Do not exceed this rating, or use any components not rated for 10,000 PSI with this pump.**

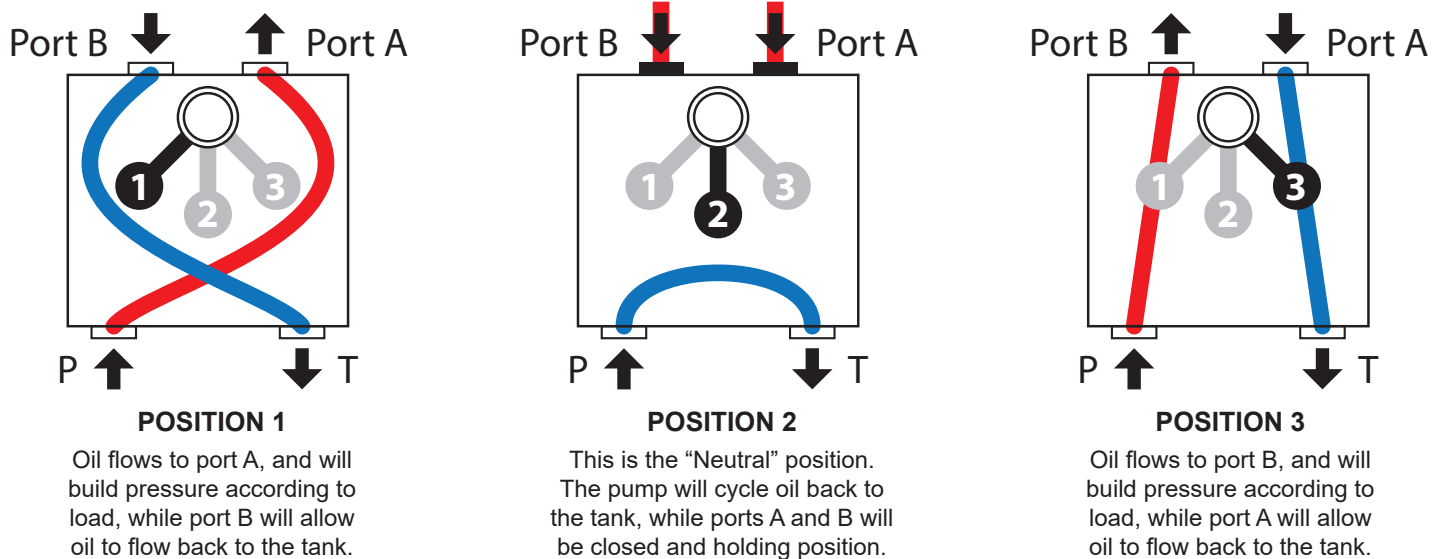
## SINGLE-ACTING HAND PUMP OPERATING INSTRUCTIONS

1. Determine the layout of your hydraulic system based on the work to be performed.
2. Be sure hoses do not have cracks, kinks, cuts or other damage which might cause the hoses to leak. If hoses include spring guards, make sure the springs protect the crimped areas of each end of the hose.
3. Hose should not be twisted or bent too sharply. The bend radius should not be less than nine times the outside diameter of the hose. Always use as few bends as possible.
4. Make sure all hose ends, couplers, or union ends are clean and threads are in good condition.
5. Make sure all hose connections between pump and rams are tight and leak free. Do not over-tighten connections. Excessive tightening may cause premature thread or fitting failure.
6. When using quick disconnect fittings, make sure fittings are correctly and completely fastened together.
7. Verify that reservoir is filled to capacity.
8. Open release valve by counter-clockwise rotation. Pump the handle 10 times to evacuate any air trapped in the pump.
9. Tighten the release valve by clockwise rotation. Do not tighten with tools.
10. Pump the handle in full strokes until the desired work is achieved.
11. To release the system pressure, open the release valve by counter-clockwise rotation slowly.

## DOUBLE-ACTING HAND PUMP OPERATING INSTRUCTIONS

1. Determine the layout of your hydraulic system based on the work to be performed.
2. Placing the directional valve in the appropriate position will determine which direction your ram will move. There are 3 positions, explained in the diagram below.
3. Continue to Step 2 of Single-Acting instructions above.

### FLOWPATH OF THE VALVE POSITIONS AND OPERATIONS



## PREVENTATIVE MAINTENANCE

1. Keep components clean at all times. Use every precaution to guard against dirt entering the system.
2. Cover couplers with dust caps when not connected to the system. All coupler threads must be clean and lubricated regularly.
3. Changing fluid in system components is recommended to be done once a year, with approved and compatible hydraulic fluid.
4. Leave hydraulic hoses in the carton until needed.
5. Store hoses away from direct sunlight, moisture, or temperatures above 75°F (24°C) or below 50°F (10°C).
6. Do not stack hoses. The weight of the pile may flatten hoses on the bottom. Hang the hoses.

## REPAIR SERVICE

If your FREEDOM product requires service or repair, contact the FREEDOM Customer Service Department for the location of the nearest FREEDOM Authorized Service Center.

Freedom Industrial Hydraulics  
226 NW Platte Valley Dr.  
Riverside, MO 64150  
(816) 541-3243 • Fax: (816) 541-3246  
[www.freedomhydraulics.com](http://www.freedomhydraulics.com)

It will be necessary to provide the FREEDOM Authorized Service Center with a copy of the bill of sale if requesting warranty repair. If the authorized service center determines your product is eligible for warranty repair, the repair will be made at no charge and returned freight prepaid. The cost of non-warrantable service, repair, and return freight is the customer's responsibility.