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Garvee 3EV-3-Q1CLTLKABXYBTOHKVQUCEYE

Garvee Hydraulic H-Frame Shop Press User Manual (6/12/20 Ton)

Model: 3EV-3-Q1CLTLKABXYBTOHKVQUCEYE

1. Introduction

Thank you for choosing the Garvee Hydraulic H-Frame Shop Press. This professional-grade press is designed for a wide range of applications, including automotive repair, metalworking, fabrication, and general workshop tasks. Available in 6, 12, or 20-ton capacities, it features a robust carbon steel frame, adjustable work table, and integrated safety mechanisms to ensure reliable and safe operation. Please read this manual thoroughly before assembly or operation to ensure proper use and maintenance.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and steel-toed boots.
- Ensure the press is securely anchored to a stable, level surface before operation.
- Never exceed the rated capacity of the press (6, 12, or 20 tons, depending on model). The integrated safety valve will automatically release pressure if overloaded.
- Keep hands and body clear of the pressing area during operation.
- Do not operate the press if any parts are damaged or missing.
- Ensure the workpiece is stable and properly supported on the pressing plates.
- Keep children and unauthorized personnel away from the press.
- Regularly inspect the hydraulic system for leaks and the frame for structural integrity.



Figure 2.1: The hydraulic jack features an integrated safety valve that automatically releases pressure when the rated load is exceeded (e.g., >6T for a 6-ton model), preventing overload and ensuring operator safety.

3. Product Overview and Components

The Garvee Hydraulic H-Frame Shop Press consists of several key components designed for efficient and safe operation:

- **H-Frame Structure:** Robust carbon steel frame providing stability and durability.
- **Hydraulic Jack:** High-performance hydraulic cylinder for applying pressure.
- **Pressing Plates:** Interchangeable plates for supporting workpieces.
- **Adjustable Work Table:** Can be set at multiple height levels using pins.
- **Operating Handle:** Ergonomic, extra-long handle for reduced effort.
- **Safety Valve:** Automatic overload protection.



Figure 3.1: Key features of the Garvee Hydraulic Press, including the 4-hole adjustable height work table, the labor-saving handle for operating the hydraulic jack, and the movable press plates for versatile workpiece support.

4. Setup and Assembly

The Garvee Hydraulic H-Frame Shop Press requires assembly. Follow these steps carefully:

1. **Unpack Components:** Carefully remove all parts from the packaging. Verify all components are present according to the packing list (frame sections, hydraulic jack, pressing plates, handle, pins, bolts, nuts, springs).
2. **Assemble Frame:** Connect the base supports to the vertical H-frame sections using the provided bolts and nuts. Ensure all connections are tight and secure.
3. **Install Work Table:** Insert the support pins into the desired height holes on the H-frame. Place the work table onto these pins.
4. **Position Hydraulic Jack:** Place the hydraulic jack securely on the top crossbeam of the H-frame, ensuring it is centered and stable.
5. **Attach Handle:** Insert the operating handle into the hydraulic jack's pump mechanism.

6. **Place Pressing Plates:** Position the pressing plates on the work table, ensuring they are aligned with the hydraulic ram.
7. **Secure Press:** For optimal stability and safety, it is recommended to bolt the press to the floor or a heavy-duty workbench using appropriate fasteners (not included).



Figure 4.1: All components of the Garvee Hydraulic H-Frame Press laid out for assembly, including the main frame sections, hydraulic jack, pressing plates, handle, and various fasteners.

5. Operating Instructions

Follow these steps for safe and effective operation of your hydraulic press:

1. **Prepare Workpiece:** Ensure the workpiece is clean, free of debris, and properly positioned on the pressing plates. Use appropriate jigs or fixtures if necessary to prevent movement.
2. **Adjust Work Table Height:** Adjust the work table to the appropriate height for your workpiece by repositioning the support pins. Ensure both pins are fully seated.
3. **Close Release Valve:** Turn the release valve on the hydraulic jack clockwise until it is fully closed. This builds pressure.

4. **Apply Pressure:** Pump the operating handle to extend the hydraulic ram and apply pressure to the workpiece. Apply pressure gradually and observe the workpiece.
5. **Monitor Pressure:** Do not exceed the rated capacity of the press. The safety valve will activate if overloaded.
6. **Release Pressure:** Once the operation is complete, slowly turn the release valve counter-clockwise to retract the hydraulic ram.
7. **Remove Workpiece:** Once the ram is fully retracted, carefully remove the workpiece.



Figure 5.1: A user demonstrating the operation of the 6-ton hydraulic shop press, pressing a component. The image highlights the press's utility for various auto repair tasks, such as pressing bearings, bushings, and U-joints.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your Garvee Hydraulic Press.

- **Cleaning:** Keep the press clean and free of dirt, grease, and debris. Wipe down surfaces after each use.
- **Lubrication:** Periodically lubricate moving parts, such as the ram and pump mechanism, with hydraulic oil or appropriate grease.

- **Hydraulic Fluid Check:** Check the hydraulic fluid level regularly. If low, refill with high-quality hydraulic jack oil. Refer to the jack's specific instructions for fluid type and filling procedure.
- **Inspection:** Before each use, inspect the frame for cracks or damage, the hydraulic system for leaks, and all fasteners for tightness. Replace any worn or damaged parts immediately.
- **Storage:** When not in use, store the press in a dry, clean environment. Retract the hydraulic ram fully to protect the piston.

7. Troubleshooting

Here are some common issues and their solutions:

Problem	Possible Cause	Solution
Press does not lift or build pressure.	Release valve open; Low hydraulic fluid; Air in system; Damaged pump seals.	Close release valve; Refill hydraulic fluid; Bleed air from system (refer to jack manual); Contact support for seal replacement.
Ram retracts slowly or not at all.	Release valve not fully open; Obstruction; Damaged return springs.	Fully open release valve; Check for obstructions; Replace return springs.
Oil leakage.	Loose fittings; Damaged seals.	Tighten all fittings; Contact support for seal replacement.
Press makes unusual noises.	Air in hydraulic system; Loose components.	Bleed air from system; Check and tighten all bolts and nuts.

8. Specifications

Feature	Detail
Brand	Garvee
Model	3EV-3-Q1CLTLKABXYBTOHKVQUCEYE
Capacity	6 / 12 / 20 Ton (model dependent)
Frame Material	Reinforced Carbon Steel
Product Dimensions	99 x 46 x 14 cm (approximate, assembled)
Item Weight	24.2 Kilograms (approximate, for 6T model)
Work Table Adjustment	4 levels (2.2" to 9.4" range, approximate)
Safety Features	Automatic Overload Safety Valve

9. Warranty and Support

For warranty information, technical assistance, or to order replacement parts, please contact Garvee Customer Support. Keep your purchase receipt and product model number handy when contacting support.
Garvee Customer Support: Visit the Garvee Store on Amazon

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