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Garvee 92_z7-JvRzqQpg6dhWYC3g5f

Garvee 2 Ton Engine Hoist Instruction Manual

Model: 92_z7-JvRzqQpg6dhWYC3g5f

1. Important Safety Information

Read and understand all instructions and safety warnings before assembling, operating, or maintaining this engine hoist. Failure to follow these instructions may result in serious injury or property damage. Keep this manual for future reference.

General Safety Precautions:

- **Always wear appropriate personal protective equipment (PPE)**, including safety glasses, gloves, and steel-toed boots.
- **Ensure the work area is clean, well-lit, and free of obstructions.**Keep bystanders, especially children, away from the work area.
- **Inspect the hoist before each use.** Check for any signs of damage, wear, or hydraulic fluid leaks. Do not use if damaged.
- **Do not exceed the rated load capacity.** The Garvee 2 Ton Engine Hoist has a maximum capacity of 4400 lbs (2 tons). Refer to the load chart for specific capacities at different boom extensions.
- **Ensure the load is properly secured and balanced**before lifting. Use appropriate chains or slings.
- **Operate the hoist on a flat, level, and stable surface.**Uneven surfaces can cause instability and tipping.
- **Never work under a suspended load.**Use appropriate jack stands or other support devices once the load is in position.
- **Lower loads slowly and with control.**
- **Do not modify the hoist.** Any modifications can compromise its safety and performance.

2. Product Overview and Components

The Garvee 2 Ton Engine Hoist is a heavy-duty, portable hydraulic crane designed for lifting and moving heavy objects such as truck engines, boat motors, and farm equipment. It features a foldable design for compact storage and six steel casters for mobility.

Key Features:

- **Capacity:** Up to 4400 lbs (2 tons).
- **Adjustable Boom:** 4 adjustable load positions (0.5T, 1T, 1.5T, 2T) for varying reach and capacity.

- **Hydraulic System:** Smooth hydraulic pump with an 8-ton hydraulic cylinder for efficient lifting.
- **Mobility:** Six heavy-duty steel casters, including dual swivel and central locking types, provide 360° mobility.
- **Foldable Design:** Collapses to one-third its size for easy storage and transport.
- **Durable Construction:** 4mm thick steel frame with triple-layer anti-rust coating.

Main Components:

- Main Frame (Base and Upright)
- Boom Arm with Hook
- Hydraulic Cylinder/Pump Assembly
- Operating Handle
- Casters (Wheels)
- Airlock Switch (Release Valve)



Image: Key components of the Garvee Engine Hoist, showing the 4 adjustable load positions, 8T hydraulic pump, and press handle.



Image: Detailed view of the hoist components, including the airlock switch, thickened carbon steel frame, hydraulic cylinder, and handle.

3. Setup Instructions

The Garvee Engine Hoist is designed for relatively straightforward assembly. It typically arrives in two packages. Follow

these general steps for assembly:

1. **Unpack Components:** Carefully remove all parts from the packaging. Verify that all components listed in the packing list are present and undamaged.
2. **Assemble the Base:** Attach the support legs to the main upright frame. Ensure all bolts are securely fastened.
3. **Install Casters:** Mount the six heavy-duty steel casters to the base legs. Ensure they are securely attached and can rotate freely.
4. **Attach Upright and Hydraulic Cylinder:** Secure the main upright column to the base. Install the hydraulic cylinder assembly, ensuring all pins and fasteners are correctly in place.
5. **Mount the Boom Arm:** Attach the boom arm to the top of the upright column and connect it to the hydraulic cylinder. Ensure the boom arm can pivot smoothly.
6. **Attach Operating Handle:** Secure the operating handle to the hydraulic pump mechanism.
7. **Final Inspection:** After assembly, perform a thorough inspection. Check all bolts, pins, and connections for tightness. Ensure the hydraulic system operates smoothly without leaks.



Image: Production information showing the hoist dimensions and indicating it ships in two packages.

4. Operating Instructions

Follow these steps for safe and effective operation of your Garvee Engine Hoist.

Before Lifting:

- **Position the Hoist:** Roll the hoist to the desired location. Ensure the surface is level and stable.
- **Adjust Boom Length:** Select the appropriate boom extension (0.5T, 1T, 1.5T, or 2T) based on the weight of the load and required reach. Secure the boom in place with the locking pin. *Note: The shorter the boom extension, the higher the lifting capacity.*
- **Prepare the Load:** Securely attach the load (e.g., engine) to the hoist hook using appropriate lifting chains or straps. Ensure the load is balanced to prevent swinging.

Lifting the Load:

1. **Close Release Valve:** Ensure the airlock switch (release valve) on the hydraulic pump is fully closed by turning it clockwise.
2. **Pump the Handle:** Insert the operating handle into the pump socket. Pump the handle steadily to raise the boom arm and lift the load.

3. **Monitor Load:** Continuously monitor the load for stability and balance during lifting.
4. **Move Hoist (if necessary):** Once the load is lifted clear of obstacles, carefully push or pull the hoist to move the load to the desired position. Use the 360° rotating casters for maneuverability.

Lowering the Load:

1. **Position Load:** Ensure the load is positioned correctly over its destination.
2. **Open Release Valve:** Slowly turn the airlock switch (release valve) counter-clockwise to gradually lower the boom arm and the load. Do not open too quickly, as this can cause the load to drop suddenly.
3. **Secure Load:** Once the load is fully supported by its destination, detach the lifting chains/straps.

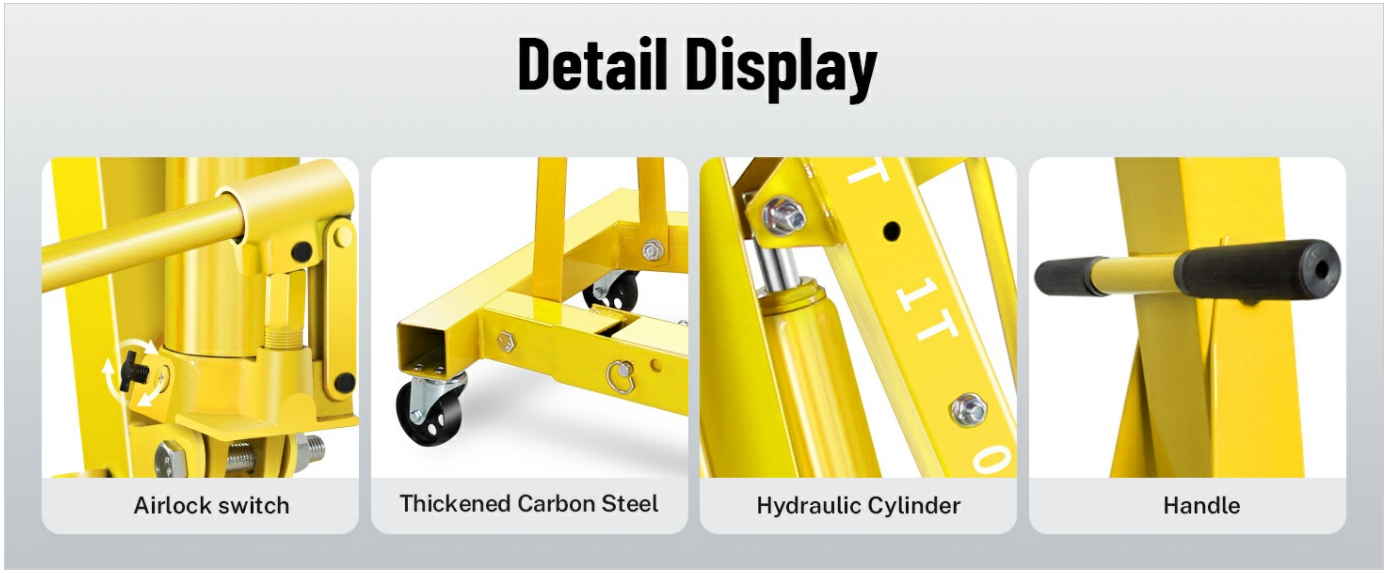

Image: The Garvee Engine Hoist in operation, lifting an engine from a vehicle, demonstrating its 2-ton max capacity.

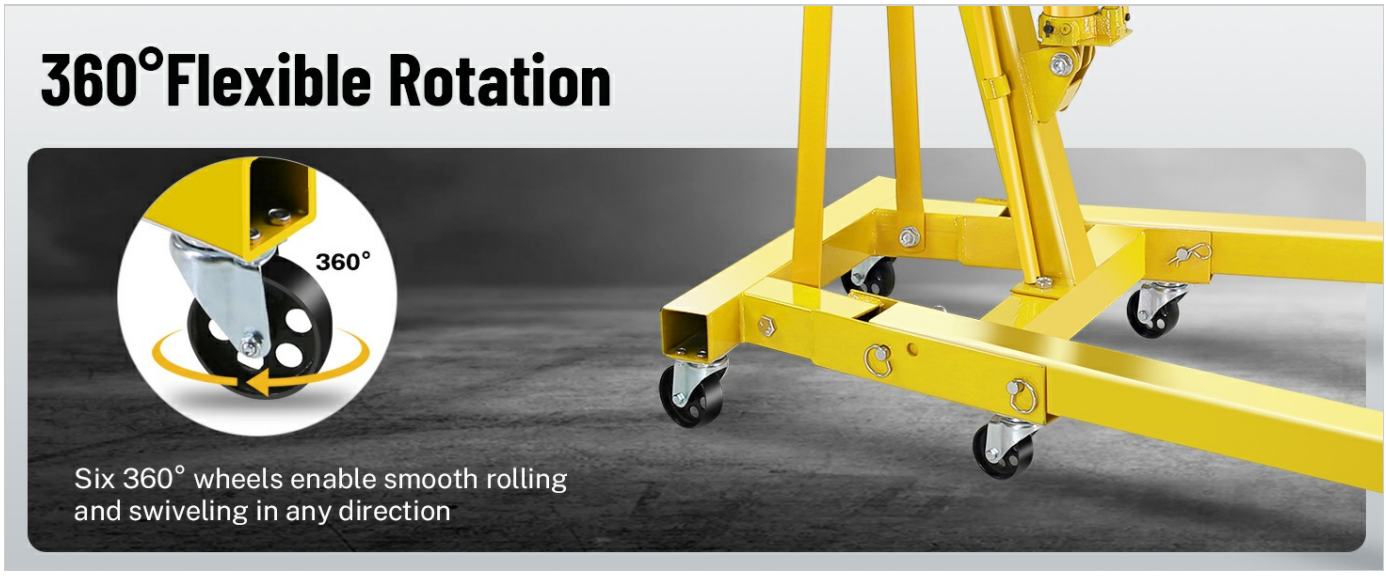

Image: Close-up of the hoist's casters, highlighting the 360° flexible rotation for easy movement.

5. Maintenance

Regular maintenance is crucial for the longevity and safe operation of your Garvee Engine Hoist.

- **Cleanliness:** Keep the hoist clean and free of dirt, grease, and debris. Wipe down surfaces regularly.
- **Hydraulic Fluid Check:** Periodically check the hydraulic fluid level. If low, refill with a high-quality hydraulic jack oil. Refer to the manufacturer's recommendations for fluid type.

- **Inspect for Leaks:** Regularly inspect the hydraulic cylinder and hoses for any signs of leaks. Address leaks immediately to prevent loss of lifting capacity and potential failure.
- **Lubrication:** Lubricate moving parts, such as pivot points and caster axles, with appropriate grease or oil to ensure smooth operation.
- **Fastener Check:** Periodically check all bolts, nuts, and pins for tightness. Tighten any loose fasteners.
- **Rust Prevention:** The hoist features a triple-layer anti-rust coating. However, store the hoist in a dry environment to prevent corrosion, especially if exposed to moisture.
- **Storage:** When not in use, fold the hoist for compact storage. Ensure it is stored in a stable position where it cannot tip over.

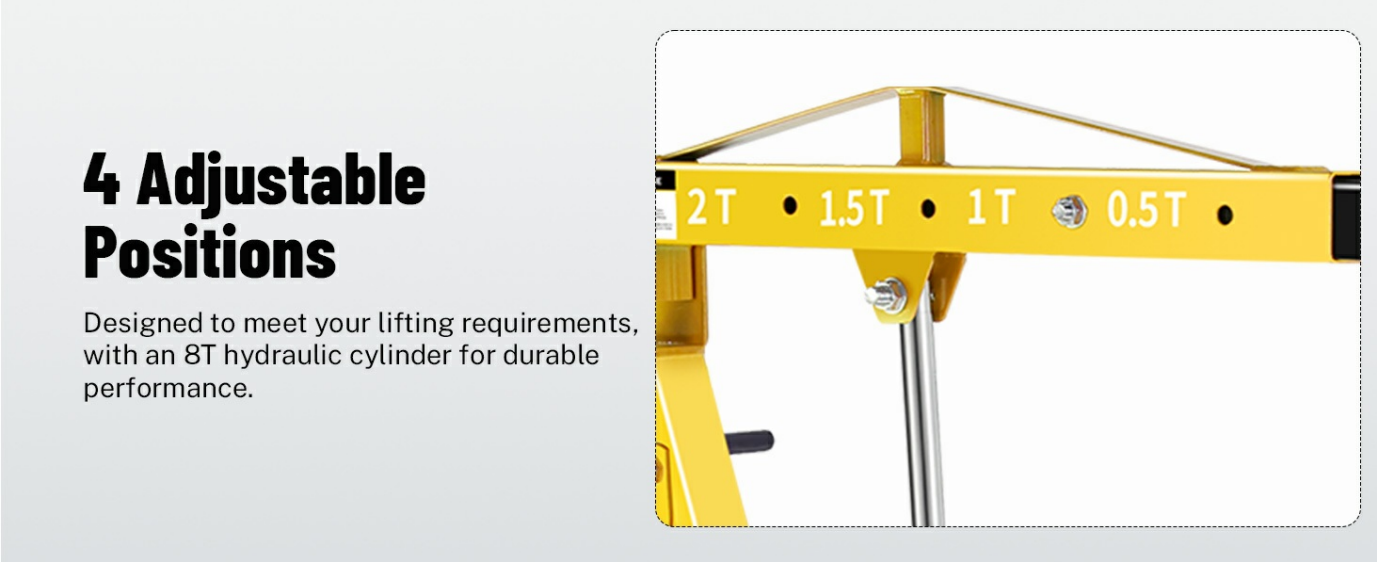

Image: The wide base design of the Garvee Engine Hoist, contributing to enhanced stability during operation.

6. Troubleshooting

This section addresses common issues you might encounter with your engine hoist.

Problem	Possible Cause	Solution
Hoist does not lift or lifts slowly.	Low hydraulic fluid level. Release valve (airlock switch) is open. Air in the hydraulic system. Overload.	Check and refill hydraulic fluid. Ensure release valve is fully closed. Bleed air from the system (refer to hydraulic pump instructions). Reduce load; do not exceed capacity.
Hoist loses pressure and lowers on its own.	Leaking hydraulic seals. Release valve not fully closed or faulty. Damaged hydraulic cylinder.	Inspect for visible leaks; contact service for seal replacement. Ensure valve is fully closed; inspect for damage. Contact service for repair or replacement.
Casters do not roll smoothly.	Dirt or debris in casters. Damaged casters. Lack of lubrication.	Clean casters thoroughly. Replace damaged casters. Lubricate caster axles.
Boom arm is difficult to adjust.	Corrosion or dirt in adjustment holes. Bent locking pin.	Clean and lubricate adjustment points. Straighten or replace locking pin.

If you encounter problems not listed here or if solutions do not resolve the issue, contact Garvee customer support for assistance.

7. Specifications

Feature	Specification
Brand	Garvee
Model Number	92_z7-JvRzqQpg6dhWYC3g5f
Maximum Load Capacity	2 Tons (4400 lbs)
Adjustable Load Positions	0.5T, 1T, 1.5T, 2T
Hydraulic Cylinder Capacity	8 Tons
Item Weight	Approximately 100 lbs (45.36 kg)
Product Dimensions (Assembled)	64.17 x 40.16 x 58.07 inches (L x W x H)
Maximum Lifting Height	Up to 90.2 inches (2290 mm)
Material	4mm Thick Steel Frame with Triple-Layer Anti-Rust Coating
Casters	6 Heavy-Duty Steel Casters (Dual Swivel, Central Locking)

8. Warranty and Support

For specific warranty information regarding your Garvee 2 Ton Engine Hoist, please refer to the documentation included with your purchase or contact Garvee customer service directly. Warranty terms typically cover manufacturing defects for a specified period.

If you require technical assistance, replacement parts, or have questions about the operation or maintenance of your hoist, please contact the manufacturer or your retailer.

Manufacturer: Garvee

Contact Information: Please visit the official Garvee website or refer to your product packaging for the most current customer support contact details.

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