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GarveeTech SJzv9PvjhqCOKpSqtUBgVwCNMFacn

GarveeTech 2 Ton 4400lb Folding Hydraulic Engine Hoist Instruction Manual

Model: SJzv9PvjhqCOKpSqtUBgVwCNMFacn

Introduction

Thank you for choosing the GarveeTech 2 Ton 4400lb Folding Hydraulic Engine Hoist. This manual provides essential information for the safe and efficient assembly, operation, and maintenance of your new engine hoist. Please read all instructions carefully before use to ensure proper function and to prevent injury or damage to the equipment.

Important Safety Information

WARNING: Failure to follow these safety instructions may result in serious injury or death. Always exercise extreme caution when operating heavy lifting equipment.

- Read and understand all instructions before operating the hoist.
- Do not exceed the maximum rated lifting capacity of 4400 lbs (2 tons).
- Ensure the hoist is on a level, stable, and solid surface before lifting any load.
- Keep hands and feet clear of moving parts and pinch points.
- Never work under a suspended load. Always use appropriate jack stands or other support devices once the load is in position.
- Inspect the hoist for damage or wear before each use. Do not use if any components are damaged or missing.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Keep children and unauthorized personnel away from the work area.
- Ensure the load is properly balanced and secured to the hook before lifting.
- Lower loads slowly and in a controlled manner.

Package Contents

Carefully unpack all components and compare them with the list below and the provided diagram. If any parts are

missing or damaged, do not proceed with assembly. Contact GarveeTech customer support immediately.

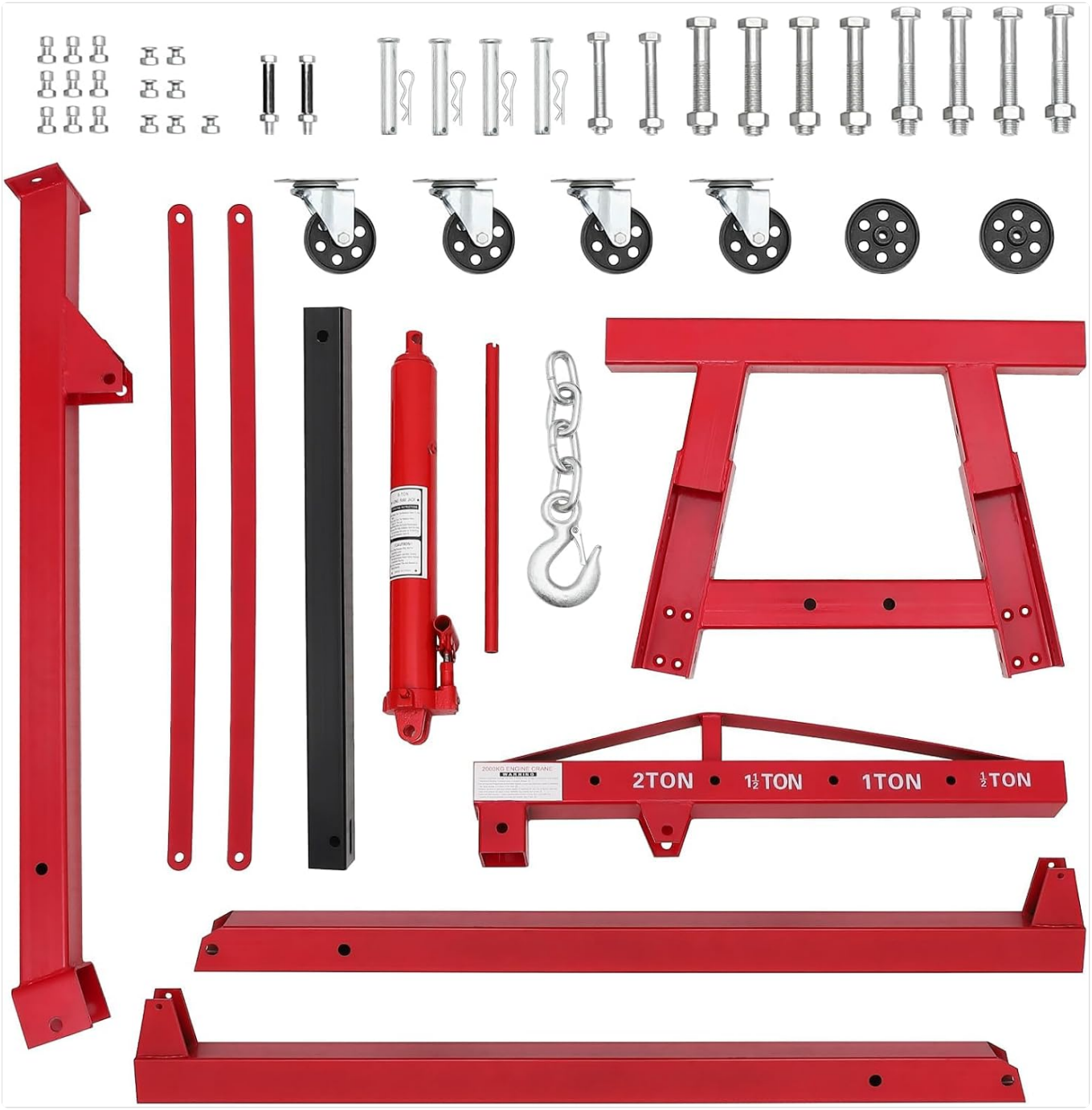


Figure 1: All components included in the GarveeTech 2 Ton 4400lb Folding Hydraulic Engine Hoist package.

- Main Frame Assembly
- Boom Assembly
- Hydraulic Cylinder
- 6 Casters (4 swivel, 2 fixed)
- Support Legs
- Connecting Pins and Bolts
- Lifting Chain with Hook
- Handle for Hydraulic Pump

Setup and Assembly Instructions

Assembly requires careful attention to detail. It is recommended to have a second person assist with assembly due to the weight and size of some components. Ensure all bolts are securely tightened before use.

1. **Attach Casters:** Securely attach the six casters to the base frame using the provided bolts and nuts. Ensure the four swivel casters are placed at the rear for maneuverability and the two fixed casters at the front.
2. **Assemble Main Frame:** Connect the vertical support column to the base frame. Use the appropriate bolts and pins to ensure a stable connection.
3. **Install Hydraulic Cylinder:** Mount the hydraulic cylinder to the main frame, ensuring it is correctly aligned and secured with the pins. Attach the pump handle to the hydraulic cylinder.
4. **Attach Boom:** Connect the telescopic boom to the top of the vertical support column. Ensure the pivot points are properly aligned and secured with heavy-duty pins.
5. **Connect Lifting Chain:** Attach the lifting chain with the hook to the end of the telescopic boom.
6. **Final Check:** Before first use, thoroughly inspect all connections, bolts, and pins to ensure they are tight and secure. Verify that the hydraulic system operates smoothly by pumping the handle and releasing the pressure valve without a load.

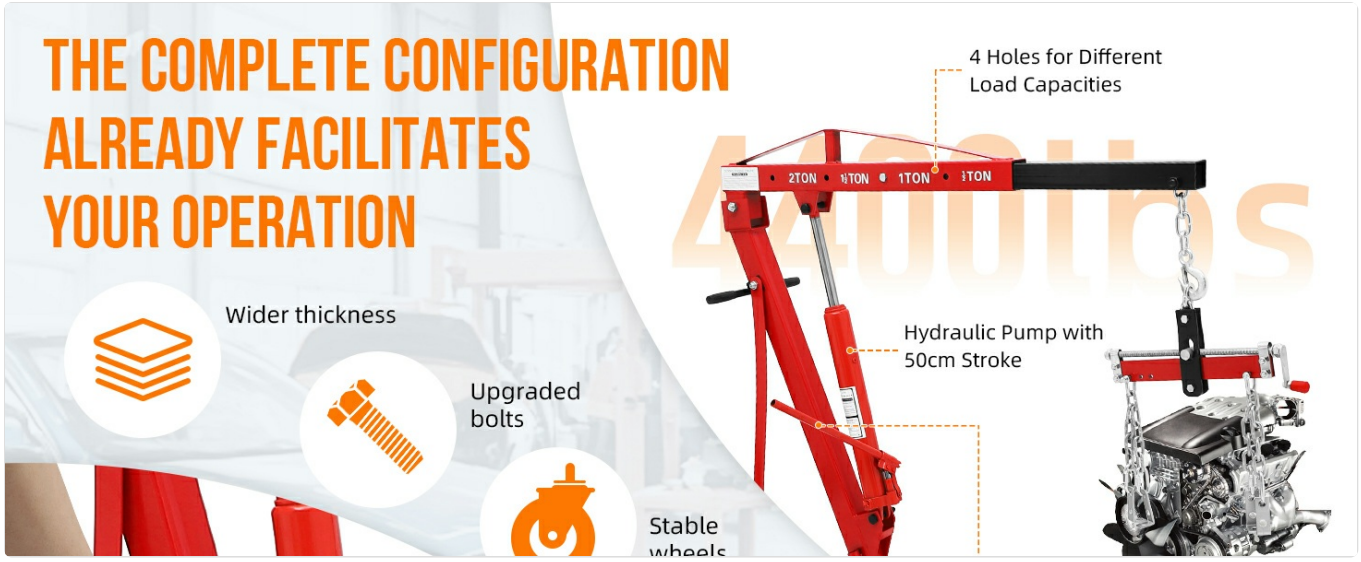


Figure 2: Key components and their configuration for operation.

Operating Instructions

1. Preparing for Lift

- Position the hoist on a firm, level surface.
- Ensure the area around the hoist and the load is clear of obstructions and personnel.
- Adjust the telescopic boom to the desired length. Note the load capacity markings on the boom (e.g., 2 Ton, 1 Ton) and ensure the selected position matches or exceeds the weight of your load.



Figure 3: Adjustable load positions on the boom and hydraulic pump operation.

2. Lifting the Load

- Attach the lifting chain hook securely to the load. Ensure the load is balanced.
- Close the hydraulic release valve by turning it clockwise until it is tight.
- Pump the hydraulic handle steadily to raise the boom and lift the load. Lift only high enough to clear obstacles.
- Once the load is lifted, carefully maneuver the hoist to the desired position using the casters.

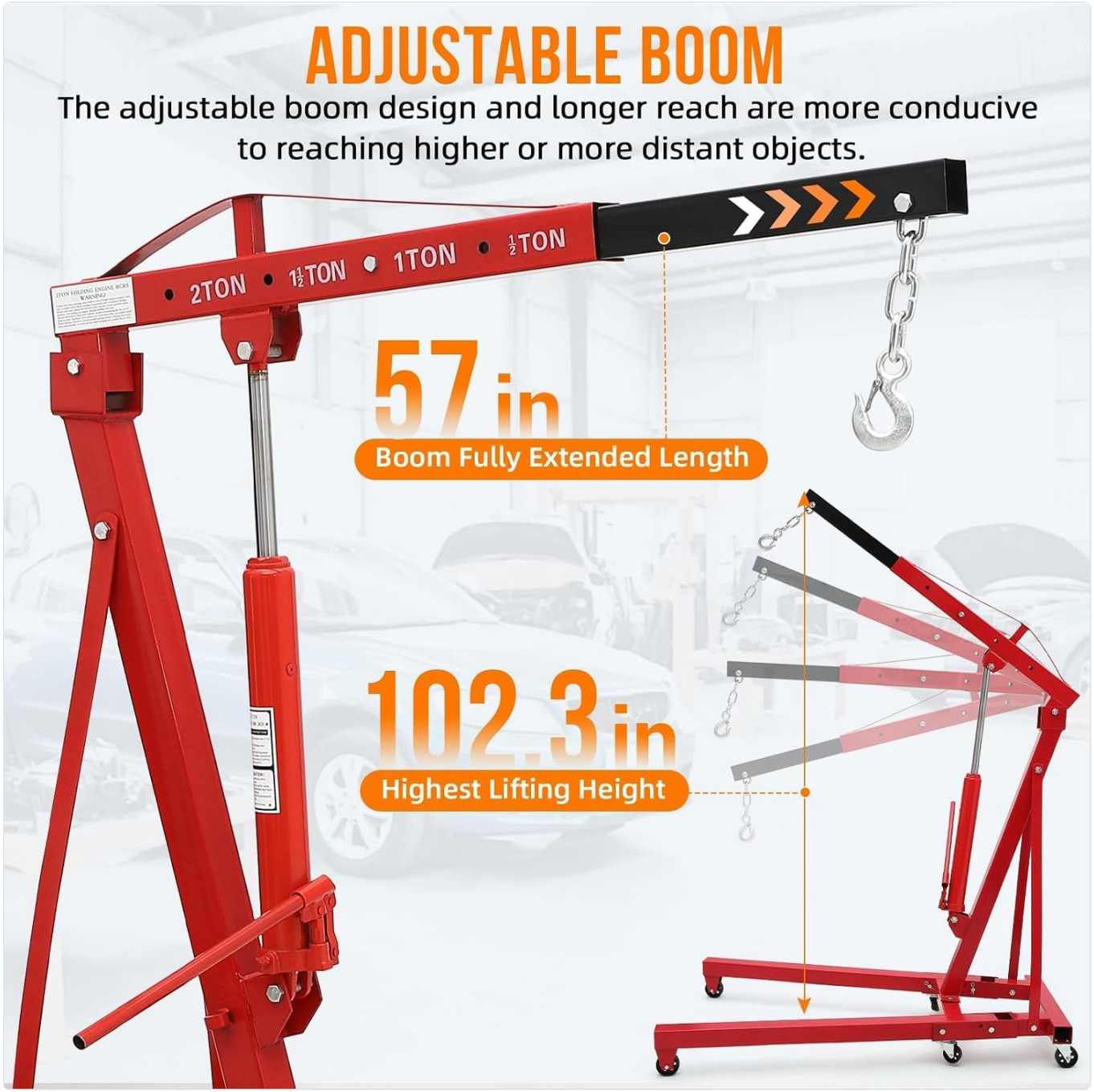


Figure 4: Adjustable boom design for reaching higher or more distant objects.

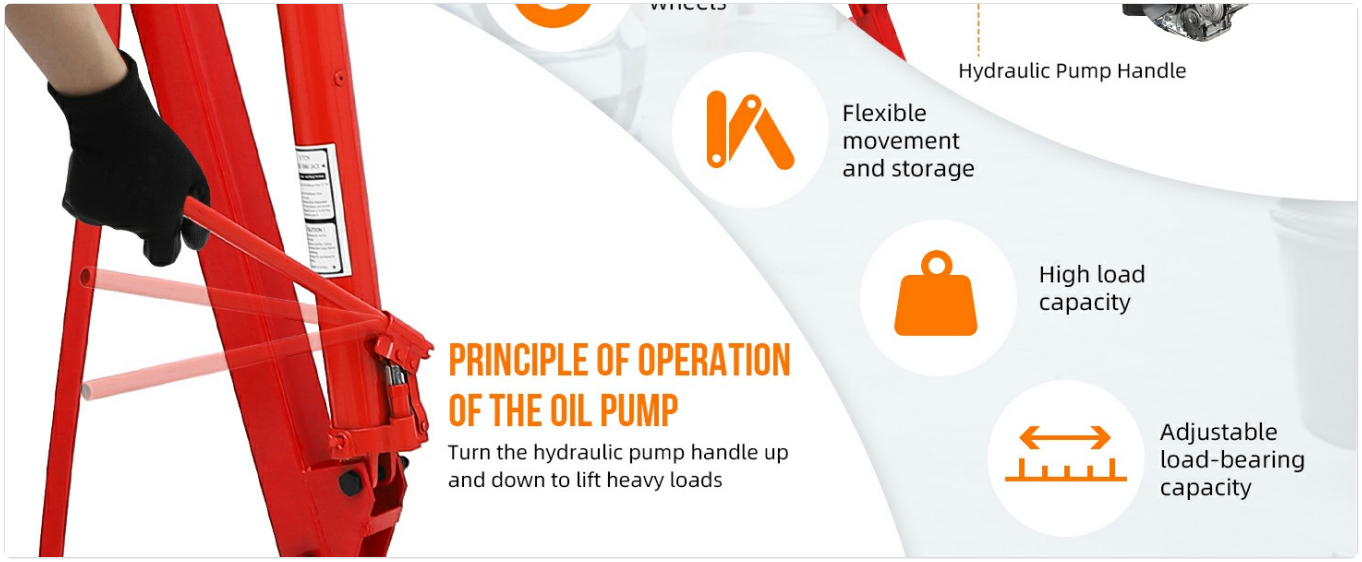


Figure 5: Principle of operation for the hydraulic pump.

3. Lowering the Load

- Slowly turn the hydraulic release valve counter-clockwise to gradually lower the load.
- Once the load is fully supported by other means (e.g., engine stand, ground), unhook the lifting chain.

4. Applications

The GarveeTech engine hoist is suitable for various heavy lifting tasks in environments such as:

- Auto Repair Shops
- Factories
- Warehouses
- Home Garages and Outdoor Use



Figure 6: Versatile applications of the engine hoist.

Folding and Storage

The GarveeTech engine hoist features a convenient foldable design for compact storage, saving valuable space in your workshop or garage.

1. Ensure the boom is fully retracted and the hydraulic cylinder is completely lowered.
2. Remove any pins or bolts securing the support legs in their extended position.
3. Fold the support legs inwards towards the main frame.
4. Secure the folded legs with the designated pins or latches.
5. The hoist can now be stored upright in a compact footprint.



Figure 7: The engine hoist in operational and folded configurations.



Figure 8: Visual guide to folding the engine hoist for storage.

Maintenance

- **Regular Inspection:** Before each use, inspect the hoist for any signs of damage, wear, or loose components. Check the hydraulic cylinder for leaks.
- **Lubrication:** Periodically lubricate all pivot points and moving parts with a suitable grease to ensure smooth operation and prevent corrosion.
- **Hydraulic Fluid:** Check the hydraulic fluid level periodically. If low, refill with a high-quality hydraulic jack oil. Do not overfill.
- **Cleaning:** Keep the hoist clean and free of dirt, grime, and corrosive materials. The powder-coated finish helps protect against rust.
- **Storage:** Store the hoist in a dry, protected area when not in use to prevent rust and damage.

Troubleshooting

Problem	Possible Cause	Solution
Hoist does not lift or lifts slowly.	Hydraulic release valve is open. Low hydraulic fluid level. Air in the hydraulic system. Overload.	Close the release valve tightly. Check and refill hydraulic fluid. Bleed air from the system (refer to hydraulic cylinder manual if available). Reduce the load to within capacity.
Hoist lowers under load.	Hydraulic release valve not fully closed. Internal hydraulic leak.	Ensure release valve is tightly closed. Contact customer support for repair or replacement.
Difficulty with assembly.	Missing or incorrect parts. Unclear instructions.	Verify all parts against the package contents list (Figure 1). Review assembly steps carefully. If issues persist, contact GarveeTech customer support.

SPECIFICATIONS

Feature	Detail
Brand	GarveeTech
Model Number	SJzv9PvjhqCOKpSqtUBgVwCNMFacn
Item Weight	127.2 pounds
Product Dimensions (Folded)	53.15 x 21.65 x 7.09 inches (approximate, based on folded image)
Product Dimensions (Operational)	60.8 x 33.6 x 58.3 inches (approximate, based on product size image)
Lifting Capacity	2 Tons (4400 lbs)
Boom Positions	4 adjustable load positions
Highest Lifting Height	102.3 inches (with boom fully extended)
Boom Fully Extended Length	57 inches
Casters	6 metal casters (4 rear swivel 360 degrees)
Material	Heavy-duty steel frame with powder-coated finish



Figure 9: Product dimensions for the engine hoist.



Figure 10: Detail of the 360-degree swivel casters for enhanced mobility.

Warranty and Customer Support

For warranty information, technical assistance, or to report missing/damaged parts, please contact GarveeTech customer support directly. Refer to your purchase documentation or the GarveeTech official website for contact details.
GarveeTech Customer Support: Visit the GarveeTech Store on Amazon

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