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Garvee PAU_0LMMST63

Garvee 2 Ton Folding Hydraulic Engine Hoist Instruction Manual

Model: PAU_0LMMST63

Introduction

This manual provides essential instructions for the safe and effective assembly, operation, and maintenance of your Garvee 2 Ton Folding Hydraulic Engine Hoist. Designed for heavy-duty lifting, this hoist is suitable for various applications in auto repair shops, garages, and workshops. Please read this manual thoroughly before use to ensure proper handling and to prevent injury or damage.

Safety Information

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

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the hoist is on a flat, level, and stable surface before operation.
- Do not exceed the rated lifting capacity of the hoist (2 tons / 4400 lbs). Refer to the boom position for specific weight limits.
- Keep hands and feet clear of moving parts and pinch points during operation.
- Never work under a suspended load without additional support.
- Ensure all bolts and fasteners are securely tightened before each use.
- Do not modify the hoist in any way. Use only original replacement parts.
- Keep children and unauthorized personnel away from the work area.
- Inspect the hoist for damage or wear before each use. Do not use if damaged.
- Lower loads slowly and in a controlled manner.
- Distribute the load evenly to prevent tipping.

Package Contents

Carefully unpack all components and verify that all parts are present and undamaged. If any parts are missing or damaged, do not attempt to assemble or operate the hoist. Contact customer support immediately.



Image: All components of the Garvee 2 Ton Engine Hoist, including the main frame, hydraulic cylinder, boom, legs, casters, bolts, and chains.

The package should include:

- Main Frame Assembly
- Hydraulic Cylinder (8-ton capacity)
- Adjustable Boom Arm
- Folding Legs (2)
- Casters (6, including 2 locking)
- Assembly Hardware (various bolts, nuts, washers, pins)
- Lifting Chain with Hook
- Operating Handle

- Instruction Manual (this document)

Setup and Assembly

Follow these steps to assemble your Garvee Engine Hoist. It is recommended to have a second person assist with assembly due to the weight and size of some components.

1. **Attach the Legs:** Securely attach the two folding legs to the main frame using the provided bolts and pins. Ensure they are fully extended and locked into position.
2. **Install Casters:** Insert the six casters into the designated holes on the legs and main frame. Ensure all casters can rotate freely.
3. **Mount the Hydraulic Cylinder:** Attach the hydraulic cylinder to the main frame and the boom arm according to the diagrams. Ensure all pins and fasteners are secure.
4. **Attach the Boom Arm:** Connect the adjustable boom arm to the main frame. Ensure the boom can pivot smoothly.
5. **Connect Lifting Chain:** Attach the lifting chain and hook to the end of the boom arm.
6. **Final Inspection:** Double-check all connections, bolts, and pins to ensure they are tight and properly installed.



Image: Key features of the engine hoist, including the hydraulic pump and adjustable boom positions.

Operating Instructions

Before operating the hoist, ensure you have read and understood all safety warnings.

Lifting a Load:

1. **Position the Hoist:** Roll the hoist into position over the object to be lifted. Ensure the legs are spread wide for maximum stability.
2. **Adjust Boom Length:** Select the appropriate boom extension based on the weight of the load. The boom has four adjustable positions (1/2 ton, 1 ton, 1.5 ton, and 2 ton). Refer to the markings on the boom for capacity at each extension. **Never exceed the rated capacity for the selected boom position.**
3. **Attach the Load:** Securely attach the lifting chain and hook to the load. Ensure the load is balanced and the attachment points are strong enough to support the weight.
4. **Pump the Handle:** Insert the operating handle into the hydraulic pump. Pump the handle up and down to slowly raise the load.
5. **Monitor Load:** Continuously monitor the load and hoist for stability during lifting.

Lowering a Load:

1. **Release Valve:** Slowly turn the release valve counter-clockwise to gradually lower the load.
2. **Control Descent:** Control the rate of descent by adjusting the release valve. Do not open the valve fully, as this can cause the load to drop rapidly.
3. **Clear Area:** Ensure the area beneath the load is clear before lowering.

Folding for Storage:

The hoist features a convenient folding design for compact storage.

1. **Lower Boom:** Fully lower the boom arm.
2. **Retract Legs:** Release the locking pins on the legs and fold them upwards towards the main frame.
3. **Secure Components:** Ensure all components are secured in their folded positions to prevent accidental unfolding.



Image: The engine hoist folded for storage, demonstrating its space-saving design.

Maintenance

Regular maintenance ensures the longevity and safe operation of your engine hoist.

- **Lubrication:** Periodically lubricate all pivot points and moving parts with a general-purpose grease.
- **Hydraulic Fluid:** Check the hydraulic fluid level regularly. If low, refill with a high-quality hydraulic jack oil. Do not overfill.
- **Cleaning:** Keep the hoist clean and free from dirt, grease, and debris.
- **Inspection:** Before each use, inspect the hoist for:
  - Cracks or damage to the frame, boom, or legs.
  - Wear or damage to the casters.
  - Leaks from the hydraulic cylinder.
  - Bent or damaged pins, bolts, or chains.
- **Storage:** Store the hoist in a dry, protected area when not in use.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Hoist will not lift or lifts slowly.	Low hydraulic fluid level. Air in hydraulic system. Release valve not fully closed.	Check and refill hydraulic fluid. Purge air from the system (refer to hydraulic pump instructions). Ensure release valve is fully closed before pumping.
Hoist leaks hydraulic fluid.	Damaged seals or O-rings. Loose fittings.	Contact customer support for replacement parts or service. Tighten all hydraulic fittings.
Load lowers unexpectedly.	Release valve not fully closed or faulty. Overload. Internal hydraulic pump issue.	Ensure release valve is fully closed. Inspect for damage. Reduce load to within rated capacity. Contact customer support.
Casters do not roll smoothly.	Debris in casters. Damaged casters.	Clean casters and remove any obstructions. Replace damaged casters.

Specifications

Feature	Detail
Model	PAU_0LMMST63
Lifting Capacity	2 Tons (4400 lbs)
Hydraulic Pump Capacity	8 Tons
Adjustable Boom Positions	1/2 Ton, 1 Ton, 1.5 Ton, 2 Ton
Product Dimensions (L x W x H)	53.15 x 22.05 x 7.09 inches (folded/packaged) 60.8 x 33.6 x 58.3 inches (assembled, minimum boom extension)
Item Weight	127.9 pounds
Material	High-strength Steel



Image: Overall dimensions of the Garvee Engine Hoist.

Warranty and Support

For warranty information, technical support, or to order replacement parts, please contact Garvee customer service. Refer to your purchase documentation for specific warranty terms and contact details.
You can typically find support contact information on the manufacturer's official website or through the retailer where the product was purchased.

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