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› VEVOR 1500 LBS Engine Stand Instruction Manual

## VEVOR 1500LBS Rotating Engine Motor Stand

# VEVOR 1500 LBS Engine Stand Instruction Manual

Model: 1500LBS Rotating Engine Motor Stand

## 1. INTRODUCTION

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This manual provides essential information for the safe assembly, operation, and maintenance of your VEVOR 1500 LBS Engine Stand. Please read and understand all instructions before using the product. Proper use and care will ensure optimal performance and extend the lifespan of your engine stand.

## 2. SAFETY INFORMATION

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

- Always ensure the engine stand is placed on a flat, stable, and level surface.
- Do not exceed the maximum load capacity of 1500 LBS (3/4 Ton).
- Ensure all bolts and fasteners are securely tightened before mounting an engine and before moving the stand.
- Distribute the engine weight evenly on the mounting arms.
- Use appropriate lifting equipment to mount and dismount engines from the stand.
- Engage all wheel brakes when the stand is stationary and an engine is mounted.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Keep children and bystanders away from the work area.
- Inspect the engine stand for any damage or wear before each use. Do not use if damaged.

## 3. PRODUCT OVERVIEW

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The VEVOR 1500 LBS Engine Stand is designed to securely hold automotive engines during repair, rebuilding, or maintenance tasks. It features a robust H-shaped base for stability, a 360-degree rotating head for easy access to all parts of the engine, and five heavy-duty casters for mobility.

### Key Features:

- **Heavy-Duty Capacity:** Safely supports up to 1500 lbs (3/4 Ton) loads.
- **Enhanced Stability:** Upgraded H-shaped base design.
- **Durable Construction:** Crafted from alloy steel with an electrostatic spraying surface for rust protection.

- **Secure Engine Mounting:** Features 1.1-inch long hex head bolts on adjustable, 360-degree rotatable mounting arms.
- **Easy Maneuverability:** Equipped with five 360-degree universal casters, four of which include brakes. Casters are made from QT450 cast iron for pressure and wear resistance.
- **Space-Saving Design:** Folds to a width of 14.8 inches (375 mm) for convenient storage.

### What's in the Box:

- 1 x Engine Stand (unassembled components)

### Product Visuals:



Figure 3.1: Fully assembled VEVOR 1500 LBS Engine Stand.

# HOLD VARIOUS ENGINES SECURELY

360° rotatable & adjustable mounting arms



Figure 3.2: Detailed view of the adjustable mounting arms, showing dimensions for bolt length (1.1in/28mm), arm length (5.5in/140mm), and bolt diameter (0.8in/21.3mm).

# MOVABLE & LOCKABLE

Easy to move on wearable iron casters



√4 Universal Caster with Brake



√1 Universal Caster

Figure 3.3: The five 360-degree universal casters, with four featuring brakes for secure positioning.

## 4. SETUP AND ASSEMBLY

The VEVOR 1500 LBS Engine Stand requires assembly. While specific part numbers in the provided instructions may vary, the general assembly process is straightforward. It is recommended to have a second person assist during assembly due to the weight and size of some components.

### Assembly Steps:

1. **Unpack Components:** Carefully remove all parts from the packaging. Verify that all components listed in the 'What's in the Box' section are present.
2. **Assemble the Base:** Attach the main vertical support to the H-shaped base using the provided bolts, washers, and nuts. Ensure all connections are secure.
3. **Install Casters:** Mount the five universal casters to the designated points on the base. Ensure the four casters with brakes are positioned for easy access.
4. **Attach Rotating Head Assembly:** Secure the rotating head assembly to the top of the main vertical support.
5. **Install Mounting Arms:** Attach the four adjustable mounting arms to the rotating head using the hex head

bolts. These arms will secure your engine block.

6. **Insert Rotation Handle:** Insert the extended rotation handle into its designated slot on the rotating head.
7. **Final Inspection:** Double-check all bolts and fasteners for tightness. Ensure the stand is stable and all casters rotate freely, and brakes engage correctly.

*Note: Some users have reported minor discrepancies between instruction manual part numbers and actual components. Refer to the product images for visual guidance during assembly if needed. It is advisable to use quality hardware for assembly if the provided hardware feels inadequate.*

## 5. OPERATING INSTRUCTIONS

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### Mounting an Engine:

1. **Prepare the Stand:** Position the engine stand on a level surface and engage the brakes on all four lockable casters.
2. **Prepare the Engine:** Ensure the engine is clean and free of obstructions that might interfere with mounting. Identify the mounting points on your engine block.
3. **Adjust Mounting Arms:** Loosen the bolts on the four adjustable mounting arms. Adjust their position to align with the mounting holes on your engine block.
4. **Lift the Engine:** Using an appropriate engine hoist or crane, carefully lift the engine.
5. **Attach Engine:** Align the engine's mounting holes with the stand's arms. Insert the hex head bolts through the arms and into the engine block.
6. **Secure the Engine:** Tighten all four hex head bolts securely. Ensure the engine is firmly attached and stable on the stand before releasing the hoist.

### Rotating the Engine:

# LABOR-SAVING ROTATION

20-inch extended handle & 6 built-in locating holes



Figure 5.1: The 20-inch extended handle facilitates easy 360-degree rotation of the engine.

- The engine stand features a 360-degree rotating head with multiple locking positions.
- To rotate the engine, pull out the locking pin located near the rotation handle.
- Use the 20-inch extended handle to rotate the engine to the desired position.
- Once in position, re-insert the locking pin into one of the 6 built-in locating holes to secure the engine. Ensure the pin is fully engaged.

## Moving the Engine Stand:

- Before moving, ensure the engine is securely mounted and the rotating head is locked in position.
- Release the brakes on all four lockable casters.
- Carefully push or pull the stand to the desired location. Avoid sudden movements or pushing over uneven surfaces.
- Once positioned, engage the brakes on all four lockable casters to prevent unintended movement.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your VEVOR Engine Stand.

- **Cleaning:** Wipe down the stand regularly with a damp cloth to remove dirt, grease, and oil. The electrostatic spraying surface is designed for easy cleaning and rust resistance.
- **Inspection:** Before each use, inspect all welds, bolts, and fasteners for any signs of damage, loosening, or corrosion. Check the casters for smooth operation and ensure the brakes engage effectively.
- **Lubrication:** Periodically apply a light lubricant to the rotating head mechanism and caster swivel points to ensure smooth operation.
- **Storage:** When not in use, clean the stand and store it in a dry, protected area. The stand can be folded to a width of 14.8 inches (375 mm) for space-saving storage.

## TUCK IT AWAY IN A CORNER

Only 14.8" in width when folded



Figure 6.1: The engine stand folds to a compact 14.8 inches (375 mm) width for efficient storage.

## 7. TROUBLESHOOTING

### Common Issues and Solutions:

- **Stand feels unstable or wobbly:**

*Solution:* Ensure all assembly bolts are fully tightened. Verify the stand is on a flat, level surface. Check for any damaged components, especially the H-shaped base.

- **Difficulty rotating the engine:**

*Solution:* Ensure the locking pin is fully disengaged. Apply a light lubricant to the rotating mechanism. If the engine is very heavy, ensure it is balanced as much as possible, and consider having assistance for rotation.

- **Casters not rolling smoothly or brakes not engaging:**

*Solution:* Clean any debris from the caster wheels. Lubricate the caster swivel points. Inspect casters for damage; replace if necessary. Ensure brake levers are fully engaged/disengaged.

- **Engine mounting arms do not align with engine block:**

*Solution:* The arms are adjustable. Loosen the bolts and reposition the arms to match your engine's bolt pattern. Ensure you are using appropriate fastening bolts for your engine.

## 8. SPECIFICATIONS

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Specification	Detail
Model	1500LBS Rotating Engine Motor Stand
Brand	VEVOR
Max Load Capacity	1500 LBS (3/4 Ton) / 680 kg
Net Weight	62.2 lbs (28.2 kg)
Product Dimensions (L x W x H)	33.5 x 29.5 x 35.4 inches (850 x 750 x 900 mm)
Folded Width	14.8 inches (375 mm)
Mounting Arm Bolt Length	1.1 inches (28 mm)
Mounting Arm Bolt Diameter	0.8 inches (21.3 mm)
Rotation	360-Degree Rotating Head with 6 locking holes
Casters	5 x 360-Degree Universal Casters (4 with brakes)
Material	Alloy Steel, QT450 Cast Iron Casters
Finish	Electrostatic Spraying (Rust Protection)



Figure 8.1: Overall dimensions of the VEVOR 1500 LBS Engine Stand.

## 9. WARRANTY AND SUPPORT

VEVOR products are designed for durability and performance. For any questions regarding your VEVOR 1500 LBS Engine Stand, including assembly, operation, or troubleshooting, please contact VEVOR customer support. Refer to your purchase documentation or the VEVOR official website for specific warranty terms and contact information.