


WARNING – ENGINE STAND

Any piece of equipment can be dangerous if not operated properly. **YOU** are responsible for the safe operation of this equipment. The operator must carefully read and follow any warnings, safety signs and instructions provided with or located on the equipment. Do not remove, defeat, deface or render inoperable any of the safety devices or warnings on this equipment. **IF** any safety devices or warnings have been removed, defeated, defaced or rendered inoperable, **DO NOT USE THIS EQUIPMENT!!!**

 **WARNING: This product can expose you to chemicals including naphthalene and chromium from petroleum products which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov**

This TOOL has and creates Multiple Pinch Points. Keep hands, feet and all other body parts clear at all times.

Never operate equipment of any kind if you are tired or if you are under the influence of alcohol, drugs, medication or any substance that could affect your ability or judgment. Be alert! If you get tired while operating this equipment, take a break. Tiredness may result in loss of control.

If the person receiving this handout will not be the user of the equipment, forward these instructions to the operator. **IF** there is any doubt as to the operation or safety of the equipment, **DO NOT USE!!! CALL A TOOL SHED IMMEDIATELY!!! FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN INJURY OR DEATH**

Operating Instructions

Safety Precautions



⚠ WARNING: To prevent personal injury,

- Study, understand, and follow the safety precautions and operating instructions included with this equipment. If the operator cannot read these instructions, the safety precautions and operating instructions must be read and discussed in the operator's native language.
- Wear eye protection that meets ANSI Z87.1 and OSHA standards.
- To maintain shear strength specifications, use grade 5 cap screws to mount adapters or engines.
- Tapped holes in adapters and engine blocks must be clean and not damaged to ensure full thread engagement. A thread length engagement equal to 1½ screw diameters minimum is required to maintain strength requirements.
- Do not exceed the 500 lb. maximum capacity of this engine stand. (Maximum capacity is determined with the center of the engine located not more than 18" from the engine stand mounting hub surface.)
- Stay out from underneath a load being lifted or suspended.
- The engine must be securely mounted on the repair stand with the hitch pin and turning bar in place and all mounting hardware torqued to specified values.



Assembly

(Numbers in parentheses refer to the items on the parts list.)

1. Place the upright post on the floor.
2. Position the axle tube against the angle iron bracket on the base of the upright post, aligning the bolt holes. Insert the hex hd. cap screw through the holes far enough to connect the two pieces.
3. Insert the front leg into the hollow base of the upright post. Tighten the cap screw (assembled in step 2) until it travels completely through the tube, post, and leg, and all three parts are securely fastened together.
4. Attach the swivel casters and nuts to the front leg. Tighten the nuts.
5. Assemble the following parts on each end of the axle in the order listed: washer, wheel, washer, locknut.
6. Slide the tubular end of the mounting plate into the cylindrical top of the upright post. Install the hitch pin and turning bar through the post and mounting plate. Secure with the cotterless hitch pin.
7. Use cap screws and washer to loosely attach the four mounting brackets to the mounting plate.

Operating Instructions

Mounting the Engine to the Engine Stand

1. Determine the engine's center of gravity.
2. Remove the engine clutch bell housing.
3. Remove the mounting plate (with brackets loosely attached) from the engine stand. Using either the 3/8" or 7/16" cap screws, fasten the four brackets to the engine. Do not tighten the screws.
4. Position the mounting plate axis of rotation as close as possible to the engine's center of gravity.
5. Tighten the four cap screws holding the brackets to the engine; tighten the four cap screws holding the brackets to the mounting plate.
6. Attach an engine lifting bar or sling to the engine. Using a suitable lifting device, maneuver the engine toward the stand.
7. Insert the tubular end of the mounting plate into the stand. Install the hitch pin and turning bar, and torque the mounting hardware to specified values. Slowly and carefully remove the engine lifting device.
8. Tighten the locknuts to lock the wheels and make the engine stand immobile before servicing the engine.

Removing the Engine from the Engine Stand

1. Attach an engine lifting bar or sling suspended from a suitable lifting device to the engine.
2. Remove the turning bar and hitch pin from the engine stand, and slowly pull the mounting plate out of the engine stand.
3. Maneuver the engine away from the engine stand, and unscrew the four cap screws holding the mounting bracket to the engine.

Preventive Maintenance: Periodically clean and lubricate the wheels, casters, and tubular end of the mounting plate. (Use a low temperature grease.)