Please read and save these instructions. Read through this owner's manual carefully before using product. Protect yourself and others by observing all safety information, warnings, and cautions. Failure to comply with instructions could result in personal injury and/or damage to product or property. Please retain instructions for future reference.

1250 LB. LARGE ENGINE STAND

FOR CUSTOMER SERVICE
Technical Question?
CALL 1-866-458-2472
customerservice@oem-tools.com

UNPACKING

After unpacking unit, inspect carefully for any damage that may have occurred during transit. Check for loose, missing, or damaged parts. If any damage is observed, a shipping damage claim must be filed with carrier. Do not use product if broken, bent, cracked or damaged parts (including labels) are noted.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

WARNING WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

IMPORTANT: READ THESE INSTRUCTIONS BEFORE OPERATING. UNDERSTAND ITS OPERATING PROCEDURES, SAFETY WARNINGS AND MAINTENANCE REQUIREMENTS.

It is the responsibility of the owner to make sure all personnel read this manual prior to using the device. It is also the responsiblity of the device owner to keep this manual intact and in a convenient location for all to see and read. If the manual or product labels are lost or not legible, contact OEMTOOLS for replacements. If the operator is not fluent in English, the product and safety instructions shall be read to and discussed with the operator in the operator's native language by the purchaser/owner or his designee, making sure that the operator comprehends its contents.

The following safety information is provided as a guideline to help you operate your 1250 lb. Large Engine Stand under the safest possible conditions. Any tool or piece of equipment can be potentially dangerous to use when safety or safe handling instructions are not known or not followed. The following safety instructions are to provide the user with the information necessary for safe use and operation. Please read and retain these instructions for the continued safe use of your service system. Failure to follow instructions listed may result in serious injury. In addition, make certain that anyone that uses the equipment understands and follows these safety instructions as well.

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Thank you very much for choosing an OEMTOOL Product!

For future reference, please complete the owner's record below:
Part#: _____ **Purchase Date:** _____
Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it. This machine is designed for certain applications only. OEMTOOLS cannot be responsible for issues arising from modification. We strongly recommend this machine is not modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted OEMTOOLS to determine if it can or should be performed on the product.

For technical questions please call 1-866-458-2472.

IMPORTANT INSTRUCTIONS AND SAFETY RULES

- Keep bystanders, children, and visitors away while operating the OEMTOOLS 1250 Lb. Large Engine Stand. Distractions can cause you to lose control. Protect others in the work area from injury.
- Stay alert. Watch what you are doing, and use common sense when operating the OEMTOOLS 1250 Lb. Large Engine Stand. Do not use the tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool may result in serious personal injury.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the power tool in unexpected situations.
- Use safety equipment.
- Wear ANSI-approved safety glasses underneath a full face safety shield. Nonskid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.
- Do not force the tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- Maintain tools with care.
- Keep tools dry and clean.
- Properly maintained tools are less likely to bind and are easier to control. Do not use a damaged stand. Tag damaged stand "Do not use" until repaired.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation.
- If damaged, have the stand serviced before using. Many accidents are caused by poorly maintained stand.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another stand.
- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of injury.
- Maintain a safe working environment. Keep the work area well lit. Make sure there is adequate surrounding workspace. Keep the work area free of obstructions, grease, oil, trash, and other debris. Do not use this product in a damp or wet location.
- Maintain labels and nameplates on this product. These carry important information. If unreadable or missing, contact OEMTOOLS for a replacement.
- Keep the handle dry, clean, and free from brake fluid, oil, and grease.
- Before use, read and understand all warnings, safety precautions, and instructions as outlined in the engine manufacturer's service manual. It is beyond the scope of this manual to properly describe the correct procedure and test data for each vehicle.
- Always perform vehicle service in a properly ventilated area. Never run an engine without proper ventilation for its exhaust. Stop work and take necessary steps to improve ventilation in the work area if you develop momentary eye, nose, or throat irritation as this indicates inadequate ventilation.

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- Engine parts that are in motion and unexpected movement of a vehicle can injure or kill. When working near moving engine parts, wear snug fit clothing and keep hands and fingers away from moving parts. Keep hoses and tools clear of moving parts. Always stay clear of moving engine parts. Hoses and tools can be thrown through the air if not kept clear of moving engine parts. The unexpected movement of a vehicle can injure or kill. When working on vehicles always set the parking brake or block the wheels.
- Be alert for hot engine parts to avoid accidental burns.
- Avoid accidental fire and/or explosion. Do not smoke near engine fuel and battery components.
- The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.
- The manufacturer declines any and all responsibility for damage to vehicles or components if said damage is the result of unskillful handling by the operator or of failure to observe the basic safety rules set forth in the instruction manual.

DISPOSAL

- At the end of the useful life of the OEMTOOLS 1250 Lb. Large Engine Stand dispose of the components according to all state, federal, and local regulations.
- All technicians opening the refrigeration circuit in automotive air conditioning systems must now be certified in refrigerant recovery and recycling procedures to be in compliance with Section 609 of the Clean Air Act Amendments of 1990. For information on certification call MACS Worldwide at (215) 631-7020.

PRODUCT SPECIFICATIONS

Your Engine Stand accepts a wide range of automotive engines up to 1250 Lb. maximum capacity, cylinder heads and automatic transmissions. The mounted engine can be turned through 360 degrees for maximum accessibility. The extra wide, 4 wheeled base gives added stability and incorporates a handy tool tray.

Part #	24829
Capacity	1250 Lbs.
Base Size (L x W)	33-1/2" x 34"
Overall Height	37"
Head Plate (L x H x Thickness)	9-13/16" x 6" x 3/8"
2 Wheel Diameter	4"
2 Castor Diameter	3-1/2"
Shipping Weight	72.7 Lbs.

THE NATURE OF HAZARDOUS SITUATIONS

WARNING

The use of portable automotive lifting and support devices is subject to certain hazards that cannot be prevented by mechanical means, but only by the exercise of intelligence, care, and common sense. It is therefore essential to have owners and personnel involved in the use and operation of the equipment who are careful, competent, trained, and qualified in the safe operation of the equipment and its proper use. Examples of hazards are dropping, tipping or slipping of loads caused primarily by improperly securing loads, overloading, off-centered loads, use on other than hard level surfaces, and using equipment for a purpose for which it was not designed.

METHODS TO AVOID HAZARDOUS SITUATIONS

WARNING

- Read, study and understand all instructions before operating.
- Inspect the engine stand before each use. Do not use if damaged, altered, modified, in poor condition, or has loose or missing hardware or components. Take corrective action before using the engine stand.
- Do not use beyond rated capacity.

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- Use only on hard level surface capable of supporting the load.
- Make sure all mounting hardware is securely tightened and setup is stable before rotating engine.
- Always use high strength SAE grade 8 bolts for mounting engine to mounting head fingers.
- Make sure widest set of mounting head fingers are nearest the ground when mounting engine to stand.
- Assure the load is centered, balanced and secured to the mounting head and fingers. The engine's weight should be balanced within one inch of the mounting head's rotational axis.
- Never loosen mounting head bolts or engine mounting bolts unless engine is supported by a crane or hoist.
- Only attachments and/or adapters supplied by OEMTOOLS shall be used.
- Do not use stand to dolly or transport engine.
- Do not crawl under engine or place any part of your body under engine at any time.
- Refer to engine manufacturer's service manual for proper lifting points, mounting points and bolt sizes. Mounting bolts should be torqued at appropriate amount to maintain load.
- This product contains one or more chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands thoroughly after handling.
- Failure to heed these warnings may result in serious or fatal personal injury and/or property damage.

CONSEQUENCES OF NOT AVOIDING HAZARDOUS SITUATIONS

⚠WARNING

Failure to read this manual completely and thoroughly, failure to understand its OPERATING INSTRUCTIONS, SAFETY WARNINGS, MAINTENANCE INSTRUCTIONS and comply with them, and failure to comply with the METHODS TO AVOID HAZARDOUS SITUATIONS could cause accidents resulting in serious or fatal personal injury and/or property damage.

Always verify that the product and application are compatible. Never load the engine stand with an engine that extends beyond an imaginary line drawn connecting the centerlines of the front and rear wheel/ caster axles as shown in exploded view on page 6.

ASSEMBLY INSTRUCTIONS:

PLEASE REFER TO THE EXPLODED VIEW DRAWING IN THIS MANUAL IN ORDER TO IDENTIFY PARTS.

1) Assemble loosely the front legs (1) to the rear center beam (7) with four large bolts (4), four flat washers (2), four lock washers (3), and four hex nuts (5).

2) Insert two large bolts (6) down into front legs and secure with two flat washers (2), two lock washers (3), and two hex nuts (5).

3) Assemble the main post (8) to the rear center beam (7) with four large bolts (4), 4 lock washers (3), four flat washers (2) and four hex nuts (5). Tighten all bolts fully.

4) Insert the head mounting plate (13) into the collar at the top of the main post. Align the holes and insert the lock pin (11).

5) Attach the four mounting arms (12) the head mounting plate (13) using four large bolts (15), four flat washer (14), four lock washers (3), and four hex nuts (5).

6) Locate the tool tray (9) into position with the two lock pins

7) Insert the rotation handle (17) through the hole at the end of the head mounting plate (13) and install the grips (16).

⚠ OPERATING INSTRUCTIONS:

NOTE: Do not mount engine to mounting plate unless pin (11) is in place and secured.

1. Consult the vehicle or engine manufacturer for service manuals and or technical bulletins that provide information on suggested engine mounting tips, proper size and type mounting bolts and the engine's center of balance. The engine's center of balance will have to be aligned with the rotational axis of the engine stand's mounting head assembly.

2. Drain oil and coolant and remove clutch bell housing and flywheel from engine before mounting. Attach an engine lifting bar or sling to the engine and secure the bar or sling to a shop crane or hoist. Slowly lift the engine from its compartment making sure no other vehicle componenets, wires or hoses obstruct the free movement of the engine. Raise the engine high enough so its center of balance is close to the rotational axis of the stand's mounting head.

3. Make sure, the four mounting head fingers are loosely connected to the mounting head plate. Secure the four mounting head fingers to the bell housing end

of the engine with the appropriate bolts and washers. Reposition the mounting head, fingers and engine so the engine's center of balance is within one inch of the mounting head's rotational axis. Tighten all bolts to a sufficient torque requirement that prevents any slippage.

4. Slowly lower the crane or hoist so the engine stand supports the full weight of the engine. To check engine balance and secure setup of the engine to the stand, slowly rotate the engine by turning the handle (13). If balance or set up are not stable, rotate the engine to its original position, raise the crane or hoist so the weight of the engine is removed from the stand and make the correct adjustments. After adjustments are made, tighten all bolts. This adjustment procedure may have to be duplicated several times until correct. After the setup is balanced and secure, the lifting bar or sling can be removed from crane or hoist.

5. To remove the engine from the stand, connect the lifting bar or sling to the crane or hoist and raise the engine hight enough to take the weight off the stand. Carefully remove the bolts that connect the four mounting fingers to the engine. Be aware there will be a slight movement of stand as total engine weight is transferred to crane or hoist.

PREVENTATIVE MAINTENANCE

1. Always store the engine stand in a well-protected area where it will not be exposed to inclement weather, corrosive vapors, abrasive dust, or any other harmful elements. The engine stand must be cleaned of water, snow, sand or grit before using.

2. Lubricate the wheels, casters, zerk fittings, gear and rotating shaft with a general purpose grease.

3. Every engine stand owner is responsible for keeping the engine stand label clean and readable. Use a mild soap solution to wash the external sufaces of the stand. Contact OEMTOOLS for a replacement label if your stand's label is not readable.

4. Inspect the stand before each use. Do not use the stand if any component is cracked, broken or bent. Do not use the stand if it has loose or missing hardware or components, or is modified in any way. Take corrective action before using the stand again.

FOR CUSTOMER SERVICE

Technical Question?

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LIMITED ONE YEAR WARRANTY

From one year from the original purchase date of this product, OEM-TOOLS will warranty this product. If you find any defect in material or workmanship, through normal usage, return it to the place of purchase or to OEMTOOLS for repair or replacement at our discretion. In order to obtain this service send your tool and proof of purchase, transportation pre-paid, to OEMTOOLS Q.A. Dept., 3850 Raines Road #3, Memphis. We will not be responsible for lost or damaged goods during transportation, please insure your package. If our inspection verifies the defect, we will either repair or replace the product at our election, or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

OEMTOOLS does not provide warranty for products labeled other than OEM or OEMTOOLS. OEMTOOLS will not provide any warranty for products subjected to abnormal use. Abnormal use includes, but is not limited to, abuse, accident, alteration, neglect, and unauthorized or unreasonable use or repairs. This warranty does not cover bits, blades, files, batteries, or calibration. We recommend that you maintain your tools and sharpen or replace blades, bits, files, and batteries as necessary. OEMTOOLS reserves the right to makes any changes in construction or design at any time without any obligation in incorporating such changes to tools or equipment previously sold.

OEMTOOLS makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of one year from the date of purchase. This warranty does not apply to damage due directly or indirectly to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear or to lack of maintenance.

We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

PLEASE READ THE FOLLOWING CAREFULLY

OEMTOOLS and/or it's distributors have provided the parts list and assembly diagram as a reference only. Neither OEM-TOOLS and/or it's distributors make any representation or warranty of any kind to the buyer and/or user of this tool that he or she is qualified to do any repairs or replace any parts of this product. OEMTOOLS and it's distributors expressly state that all repairs or parts replacement should be done by certified or licensed technicians. The buyer assumes all risk and liability arising out of his or her repairs or parts replacement to the original production.

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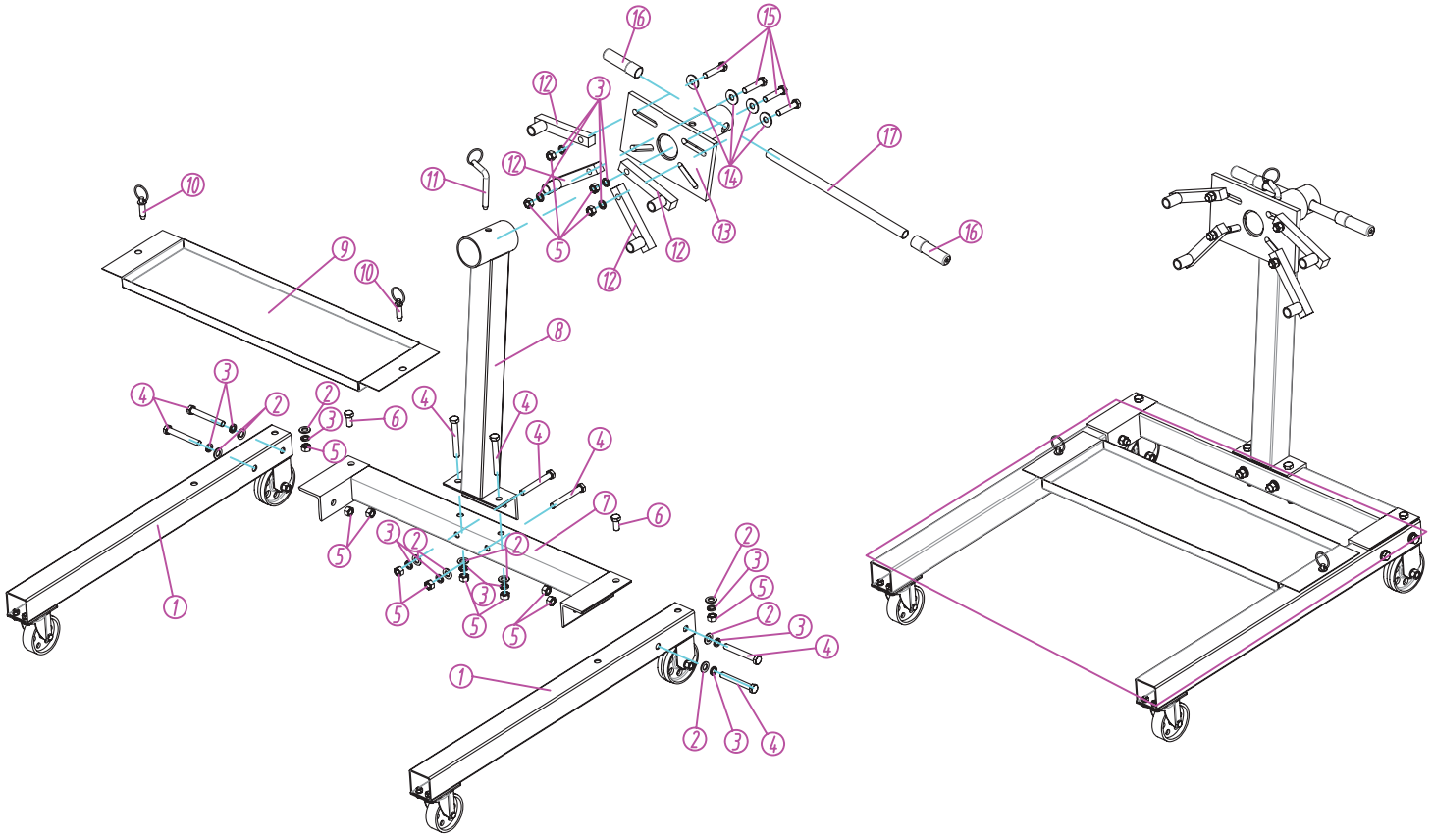
Part	Description	Quantity
24829-1	Side Leg	2
24829-2	M12 Washer	16
24829-3	M12 Lock Washer	16
24829-4	M12 x 85 Bolt	8
24829-5	M12 Nut	16
24829-6	M12 x 25 Bolt	2
24829-7	Rear Leg	1
24829-8	Main Post	1
24829-9	Tool Tray	1
24829-10	Lock Pin	2
24829-11	“L” Lock Pin	1

Part	Description	Quantity
24829-12	Mounting Arms	4
24829-13	Head Mounting Plate	1
24829-14	Big Washer	4
24829-15	M12 x 55 Bolts	4
24829-16	Handle Grip	2
24829-17	Handle	1
24829-18	3.5" Castor	2
24829-19	M8 x 16 Bolts	8
24829-20	M8 Washer	8
24829-21	M8 Nuts	8
24829-22	Wheels	2



NOTE: Not all components of the engine stand are replacement items, but are illustrated as a convenient reference for location and position in the assembly sequence.