

Eastwood[®]

DO THE JOB RIGHT.[®]

Item #33915

1200 LB ENGINE STAND

INSTRUCTIONS



The **EASTWOOD 1200 LB ENGINE STAND** features an efficient folding design to minimize storage space when not in use. A wide footprint provides a solid, stable base. Features a rotatable Spindle with 6 locking positions. Steel, ball bearing Locking Swivel Casters and a rugged steel Frame will support up to a total loaded weight of 1200 lbs. [544 kg.] yet is completely portable for use as a work stand or for long-term storage of engines and transmissions.

SPECIFICATIONS

Max. Weight Capacity: 1200 lbs. [544 kg]

Assembled Engine Stand weight: 66 lbs. [30 kgs]

TOOLS REQUIRED

- 14mm wrench (not included)
- 19mm wrench (not included)
- 22mm wrench (not included)

CONTENTS

COMPONENTS

- (1) Main Frame Member - [A]
- (1) Right Front Frame Member - [B]
- (1) Left Front Frame Member - [C]
- (1) Upright Member/Spindle Tube - [D]
- (2) Braces - [E]
- (1) Spindle/Mounting Flange - [F]
- (2) 3" Locking Swivel Casters - [G]
- (2) 3" Swivel Casters - [H]
- (1) Long Pin - [J]
- (1) Pin Clip - [K]
- (1) Short Pin - [L]
- (1) Spindle Handle - [M]
- (4) Mounting Arms - [N]

HARDWARE

- (16) M8 x 1.25 x 20mm Bolts
- (16) M8 Flat Washers
- (16) M8 x 1.25 Nuts
- (4) M14 x 2.00 x 65mm Shoulder Bolts
- (8) M14 Flat Washers
- (4) M14 x 2.00 Nuts
- (2) M12 x 1.75 x 90mm Shoulder Bolts
- (1) M12 x 1.75 x 70mm Shoulder Bolt
- (3) M12 Flat Washers
- (3) M12 x 1.75 Nuts



SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

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

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.



DANGER ENGINE STAND CAN TIP OR COLLAPSE CAUSING SEVERE INJURY!

- **DO NOT** attempt to mount a top-heavy load.
- **DO NOT** concentrate a heavy load to either side or end of the Engine Stand. This can cause the balance to shift suddenly, tipping the Engine Stand and its load which can quickly cause severe injury and property damage!
- **DO NOT** exceed the rated 1200 lbs. [544 kg]. weight capacity.
- **DO NOT** use to support humans or animals.
- **DO NOT** climb on the Engine Stand.
- **DO NOT** use the Engine Stand to support items other than engines or transmissions.
- **DO NOT** attempt to transport this Engine Stand with a load attached by any hauling method.
- **DO NOT** use with lifting devices and/or chains, cables or ropes that are frayed, twisted, kinked or otherwise damaged.
- Use only on a smooth, level and clean work surface. **DO NOT** use on a sloped or rough textured surface, earth, grass, sand, gravel or any other loose or unstable surface.



WARNING

- **DO NOT** remove or cover any of the factory supplied labels or warnings! They include specific safety information that must be communicated to future users.

WARNING FALL HAZARD!

- Awkward, out of balance body positions may be attempted while trying to reach specific areas of objects placed on the Engine Stand during use. Failure to ensure proper footing can quickly result in a fall which could inflict serious personal injury or property damage.

WARNING IMPROPER MOTOR VEHICLE REPAIR WORK CAN RESULT IN INJURY OR DEATH!

- Performing automotive repair work can cause injury, death and vehicle accidents. **DO NOT** attempt to use this tool or begin work without proper training and a thorough understanding of motor vehicle mechanical systems.
- Always consult an authorized manufacturer's service manual or reference materials on the particular vehicle for the proper procedures before using this tool.

WARNING TIP HAZARD!

- Use extreme caution while rotating the Spindle with a mounted load as a large, top-heavy engine or similar object could result in a sudden imbalance condition and cause the Engine Stand to suddenly tip.
- While rotating, always stand behind the Handle end of the stand and make constant observations of the casters. If any indication of instability occurs, **STOP IMMEDIATELY!**



CAUTION PINCH/CRUSH HAZARD!

- This Engine Stand has moveable components that can crush and pinch. Keep fingers and hands away from pinch points when operating.

ASSEMBLY PREPARATION

⚠ CAUTION INJURY HAZARDS!

The Eastwood Engine Stand consists of heavy metal components (66 lbs. [30 kg.] assembled weight) which can cause potentially serious injuries if allowed to drop. Avoid pinching hands while handling parts during assembly.

- Obtaining the assistance of a helper during assembly is strongly recommended.
- The use of ANSI approved safety shoes, heavy work gloves and eye protection are necessary.
- Allow sufficient area for operator and helper to remain clear of components when choosing assembly area.

⚠ NOTICE

To prevent scratches and damage to the finish of the Engine Stand components, it is strongly advisable to use cardboard, carpet, blankets etc. covering a 4' x 4' area before beginning assembly.

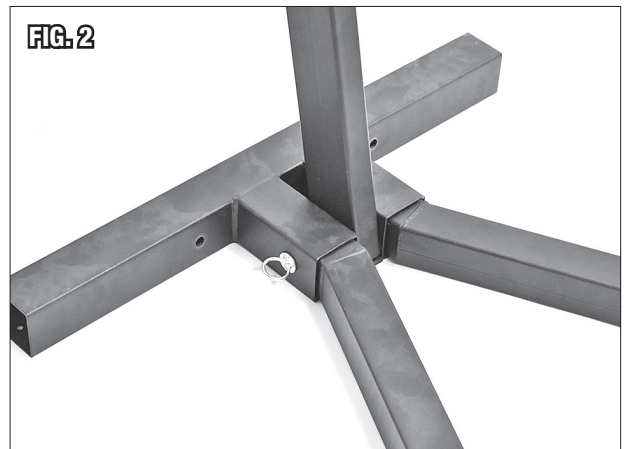
ASSEMBLY

LEFT AND RIGHT FRONT FRAME MEMBERS [B] & [C] TO MAIN FRAME MEMBER [A] (FIG 1)

- Looking at the Main Frame Member from the rear and above with the caster holes down, insert the Left and Right Frame members (also caster holes down) into the open square tubing stubs at the front of the Main Frame Member [A].

UPRIGHT MEMBER/SPINDLE TUBE [D] TO MAIN FRAME MEMBER [A] (FIG 2)

- Set the Upright Member/Spindle Tube [D] in place into the notch of the Main Frame Member [A], leaned back at an approx. 10° angle and secure by inserting the Long Pin [J] completely through all of the holes in both square tubing stubs of the Main Frame Member and Left and Right Frame Members [B] & [C].
- Insert the Pin Clip [K] through the hole near the protruding end of the Long Pin [J].



BRACES [E] TO MAIN FRAME MEMBER [A] & UPRIGHT MEMBER/SPINDLE TUBE [D] (FIG 3).

- Attach the two Braces [E] to the sides of the Upright Member/Spindle Tube [D] with one M12 x 1.75 x 70mm Shoulder Bolt, Flat Washers and M12 Nut using two 19mm wrenches (not included).
- Secure the lower ends of the Braces [E] to the back of the Main Frame Member [A] with two M12 x 1.75 x 70mm Shoulder Bolts, Flat Washers and M12 Nuts using two 19mm wrenches (not included).

LOCKING SWIVEL CASTERS [G] TO MAIN FRAME MEMBER [A], (FIG 4).

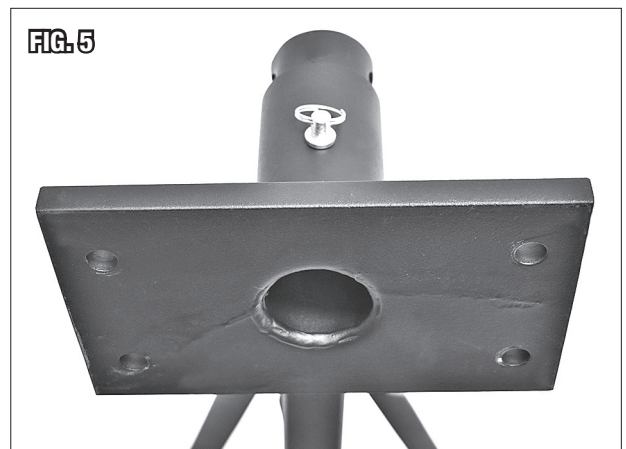
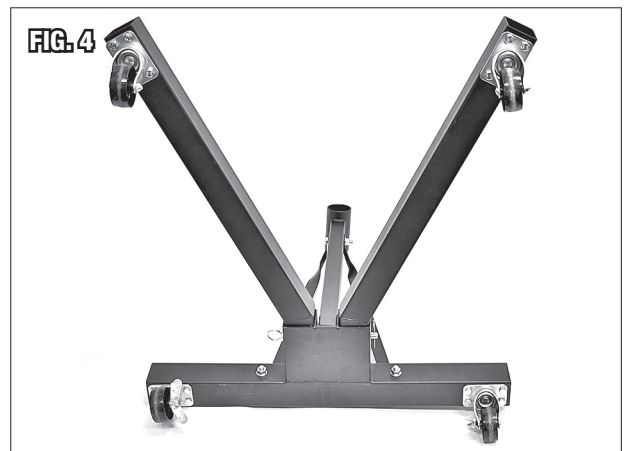
- Align all mounting holes and secure the Locking Swivel Casters [G] to the outer ends of the Main Frame Member with eight M8 x 1.25 x 20mm Bolts, Flat Washers and M8 Nuts using two 14mm wrenches (not included).

SWIVEL CASTERS [H] TO LEFT AND RIGHT FRONT FRAME MEMBERS [B] & [C] (FIG 4).

- Align all mounting holes and secure one each of the Swivel Casters [H] to the outer ends of Left and Right Front Frame Members [B] & [C] with eight M8 x 1.25 x 20mm Bolts, Flat Washers and M8 Nuts using two 14mm wrenches (not included).

SPINDLE/MOUNTING FLANGE [F] TO UPRIGHT MEMBER/SPINDLE TUBE [D] (FIG 5).

- Slide the round tubular feature of the Spindle/Mounting Flange [F] into the larger round tubular feature of the Upright Member/Spindle Tube [D] from the front (mounting flange forward).
- Secure in place by rotating the Spindle/Mounting Flange [F] to allow the holes to align and insert the Short Pin [L] from the top.

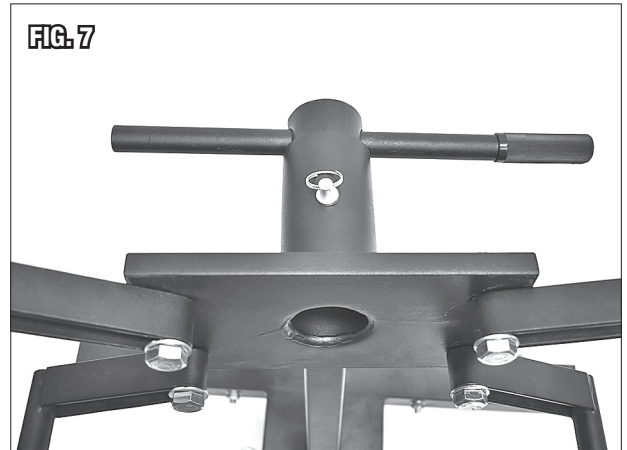


MOUNTING ARMS [N] TO SPINDLE/MOUNTING FLANGE [F] (FIG 6).

- With the offset of the Bolting Tubes of the Mounting Arms [N] facing forward, pass the four M14 x 2.00 x 65mm Shoulder Bolts through the looped section of the Mounting Arms [N], and secure with eight M14 Washers and four M14 x 2.00 Nuts.

SPINDLE HANDLE [M] TO UPRIGHT MEMBER/SPINDLE TUBE [D] (FIG 7).

- Insert the non-grip end of the Spindle Handle [M] into the holes of the protruding Spindle Tube [D].



ENGINE STAND USE

⚠ WARNING

Only use mounting bolts (not included) of the equivalent grade or stronger as those supplied by the vehicle manufacturer to mount an engine, transmission or other heavy assembly to this Stand.

The selected mounting bolts (not included) should have the threaded portion extended into the engine block mounting holes by at least 1-1/2 times the bolt diameter for maximum strength and safety.

⚠ WARNING TIP HAZARD!

The four Mounting Arms are designed with elongated loops that provide for 3-1/2" [90mm] of adjustment and can be positioned anywhere within 360°. While these features allow for virtually unlimited combinations of mounting possibilities, it is the responsibility of the user to determine the best mounting arrangement and to follow all safety warnings presented in the Safety Information section of these instructions. It is critical that the engine/transmission be mounted with the center of gravity as close to an alignment with the centerline of the Spindle/Mounting Flange to eliminate a dangerous, top-heavy condition which could cause the Engine Stand to suddenly tip.

DO NOT use the loaded Engine Stand without the Included Short Locking Pin [L] inserted down into both Spindle Tubes from the top.

If rotating, always stand behind the Handle end of the stand and make constant observations of the casters. If any indication of instability occurs, **STOP IMMEDIATELY!**

⚠ CAUTION

The Swivel Casters are equipped with a Locking Brake Feature. These **MUST** be locked before adding a load to prevent unintended movement of the Engine Stand while attaching the load.

To Lock: Rotate the Locking Paddles Counter-Clockwise to lock. The "Lock" rotation direction is also indicated by the word "LOCK" stamped into the metal paddle.

MOUNTING A LOAD

- Align the center of gravity of the engine or transmission with the centerline of the Engine Stand Spindle to avoid a top-heavy condition.
- Extend the Mounting Arms to allow the Mounting Tubes to align with the bolt pattern of the engine or transmission.
- Slip the user supplied, proper grade mounting bolts through the Mounting Tubes and with the hoist or crane still supporting the load, thread the bolts into the engine or transmission using nuts if required and draw up hand-tight.
- Securely tighten the Mounting Arms to the Mounting Flange.
- Securely tighten the user supplied, load bearing bolts.
- **SLOWLY** lower the engine hoist or crane allowing the Engine Stand to bear the weight.
- Observe carefully for any imbalance condition, excessive deflection or casters lifted before disconnecting hoist or crane.

ROTATING A LOAD

⚠ WARNING TIP HAZARD!

The load **MUST** be mounted with the center of gravity as close to an alignment with the centerline of the Spindle/Mounting Flange to eliminate a dangerous, top-heavy condition which could cause the Engine Stand to suddenly tip.

- While standing behind the Engine Stand with a firm grip on the Handle, slowly remove the Short Pin [L] from the top of the Spindle Tube.

⚠ NOTICE

The Spindle has 6 mounting hole locations to allow for rotation of the load. They are arrayed at: 12:00, 2:00, 4:00, 6:00, 8:00 and 10:00 clockface positions.

- Stop at the desire working position and insert the Short Pin [L] fully from the top of the Spindle Tube into the Spindle as quickly as possible.

ENGINE STAND UNLOADED STORAGE

The Eastwood Engine Stand may be torn down for compact storage by simply removing two Bolts and Pin. To do so:

- Remove Load from Engine Stand.
- Remove the Bolts securing the two Braces [E] to the rear of the Main Frame Member [A].
- Carefully remove the Long Pin Clip [K] from the Long Pin [J].
- Pull the Upright Member/Spindle Tube [D] and Spindle Mounting Flange [F] assembly from the Main Frame Member.
- Reinstall the Lock Pins, Washers and Pin Clips in the open holes to avoid loss.

MAINTENANCE

- Keep all moving components of the Engine Stand well lubricated and free of and dirt or debris accumulations.
- The Engine Stand is finished in rugged powdercoating which will provide many years of effort free beauty however it is advisable to keep the finish clean and free from excessive dust and dirt.
- Keep the Engine Stand in a clean and dry environment. DO NOT store it in or expose it to a damp or wet environment.
- Before each use, inspect all components for potential damage and proper alignment. Check all hardware for tightness
- DO NOT use if damage is discovered.

ADDITIONAL ITEMS

- #31630 Rockwood Oil Drain Pan
- #33913 Eastwood 2 Ton Engine Crane
- #43090 Eastwood Safety Goggles
- #31504 Eastwood 6 Ton Jack Stand Set
- #21297 Tillman Work Gloves

If you have any questions about the use of this product, please contact

The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: tech@eastwood.com

PDF version of this manual is available at eastwood.com

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