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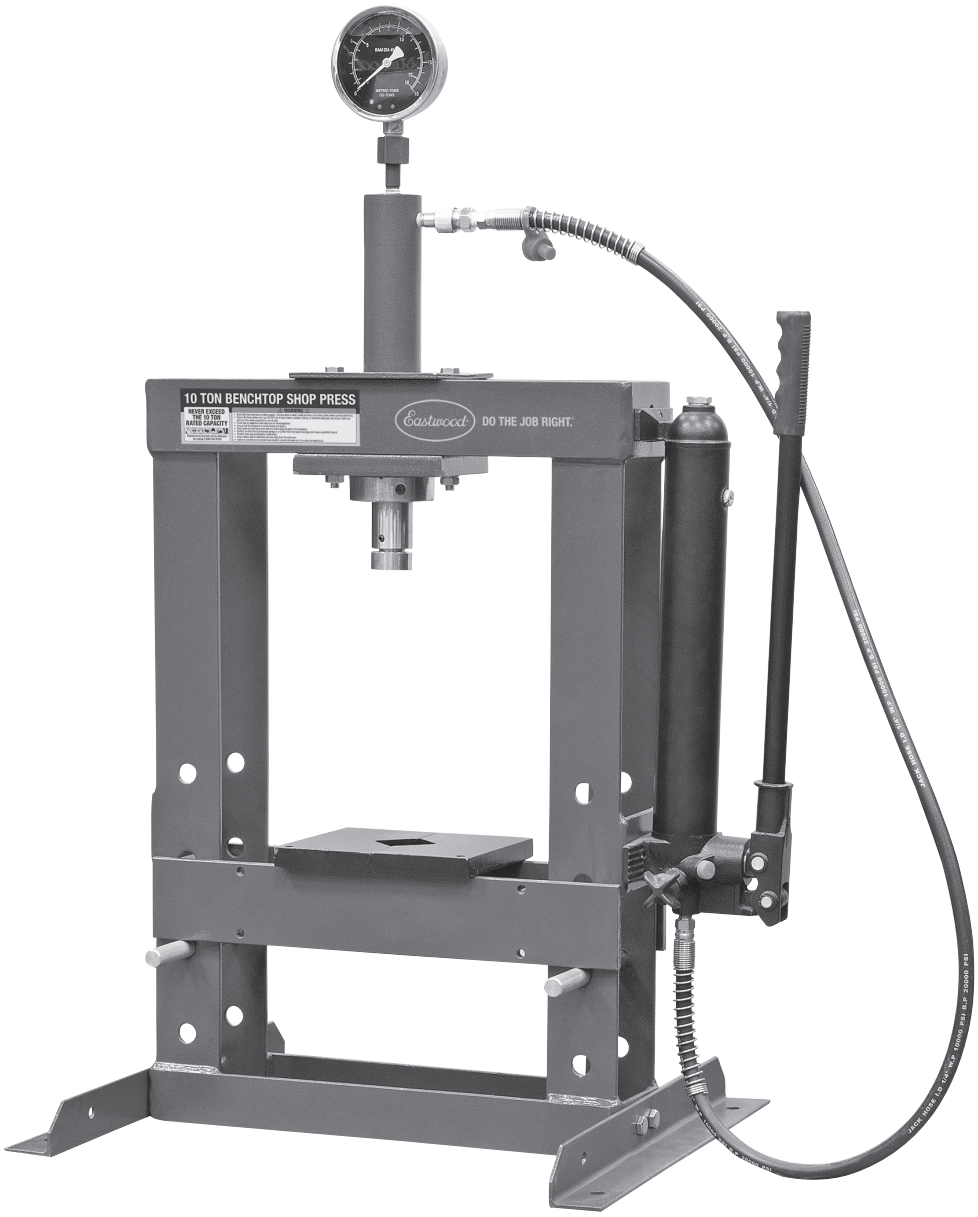
Item #54440

10 TON BENCHTOP SHOP PRESS

INSTRUCTIONS



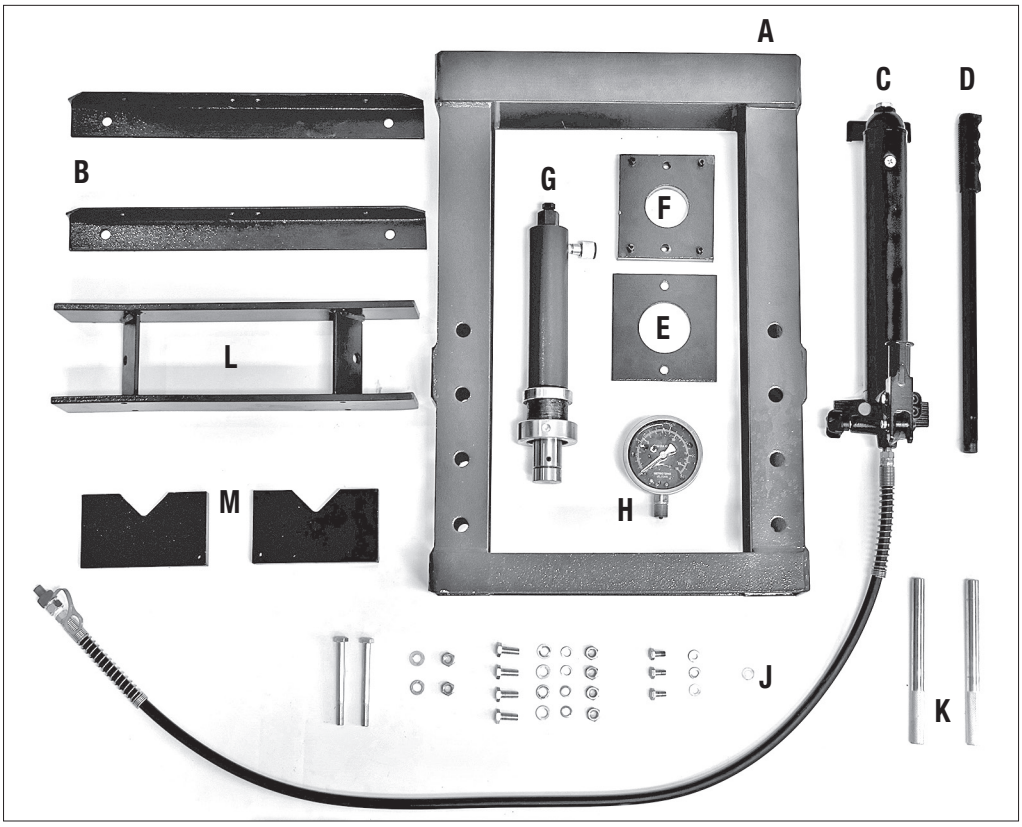
The **EASTWOOD 10 TON HYDRAULIC BENCH PRESS** is excellent for many mechanical procedures requiring a strong linear pressing force for disassembly or assembly operations. A generous 6.88" Ram Stroke and adjustable 4.3 to 14.3" vertical working range can easily accommodate many ball joint, u-joint, bearing, bushing and gear pressing projects.

CONTENTS

- **(1)** Main Frame - **[A]**
- **(2)** Base Rails – **[B]**
- **(1)** Hydraulic Pump Unit - **[C]**
- **(1)** Pump Handle – **[D]**
- **(1)** Upper Yoke Plate – **[E]** (thinner)
- **(1)** Lower Yoke Plate – **[F]** (thicker with locating pins)
- **(1)** Ram w/Lock Collar – **[G]**
- **(1)** Force Gauge – **[H]**
- **(1)** Nylon Seal – **[J]**
- **(2)** Table Support Pins – **[K]**
- **(1)** Table – **[L]**
- **(2)** Arbor Plates – **[M]**

HARDWARE

- **(3)** M8 x 1.25 x 16mm Bolts
- **(3)** M8 Washers
- **(2)** M10 x 1.5 x 110mm Shoulder Bolts
- **(4)** M10 x 1.5 x 25mm Bolts
- **(4)** M10 Nuts
- **(6)** M10 Washers
- **(4)** M10 Lock Washers



SPECIFICATIONS

Hydraulic Pump Capacity:	10 Tons (20,000 lbs.), [9071 kg] maximum
Hydraulic Ram Stroke:	6.88" [175 mm]
Vertical Working Range:	4.3 to 14.3 [109-363mm]
Arbor Depth:	4.33". [110mm]
Horizontal Working Capacity:	4.31" x 13.38". [110mm x 340mm]

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.

⚠ READ INSTRUCTIONS

- Thoroughly read and understand this manual before using.
- Save for future reference.

⚠ WARNING PINCH HAZARD!

- This tool has hydraulically actuated components that generate greatly amplified crushing and bending forces which can quickly cause severe injury! Keep fingers and hands away from moving parts when operating.

⚠ WARNING INJURY HAZARD!

- While in use, objects under pressure in the Eastwood 10 Ton Shop Press can suddenly slip out of position, releasing a great deal of stored energy and force causing serious injury or death and property damage. Work from the Pump side of the Frame at all times. Do not allow others near the tool while in operation.

⚠ CAUTION INJURY HAZARD!

- The Eastwood 10 Ton Shop Press was specifically designed to be operated by one person only. Never have one person operate the l ever while one handles the Ram or Spreader, or serious injury could occur.
- Injury or property damage could occur from being struck by ejected workpiece fragments. Before beginning work, be sure the surrounding work area is clear of persons or objects to avoid injury or property damage.
- Excessive resistance while operating could indicate excessive side loads or component binding. To avoid injury and or severe tool damage, stop work immediately and inspect tool components and extensions for any deflection or bending.
- The Eastwood 10 Ton Shop Press consists of heavy metal components which can cause serious injuries if allowed to drop. Avoid pinching hands while handling parts during assembly.
- Obtaining the assistance of a helper during assembly is recommended.

⚠ NOTICE

- The Eastwood 10 Ton Shop Press is intended for use as a linear pushing and compression tool. **DO NOT** use as a jack, lifting, or support device.

ASSEMBLY

- Set the Main Frame **[A]** in an upright position with the boxed area at the top. Attach the Base Rails **[B]** to the lower side rails with (4 each) M10 x 1.5 x 25mm Bolts, Nuts and Lockwashers **(FIG 1)**.
- Arrange the Hydraulic Pump Unit **[C]** along the Frame **[A]** side member with the hose at the downward end. Attach with (3 each) M8 x 1.25 x 16mm Bolts, Washers and Lockwashers **(FIG 2)**.
- Center and set the Upper Yoke Plate **[E]** on the top of the boxed Frame section with the Lower Yoke Plate **[F]** under it with the Roll Pins facing upward and between Frame rails.
- Secure with (2) M10 x 1.5 x 110mm Shoulder Bolts, Washers and Nuts **(FIG 3)**. **NOTE:** Do Not overtighten bolts and distort the Upper Yoke Plate.
- Unthread and remove the pre-installed Lock Collar from the Ram **[G]** and place it aside for later re-installation **(FIG 4)**.
- Insert the Ram **[G]** with the hose connection end facing upward, through the center holes of the Yoke Plates **[E]** & **[F]**. Thread the previously removed Lock Collar onto the threads of the Ram **[G] (FIG 5)**.
- Slip the Nylon Seal **[J]** over the threaded fitting of the Force Gauge **[H]** then install it with the Gauge facing forward **(FIG 6)**.

FIG. 1

FIG. 2

FIG. 3

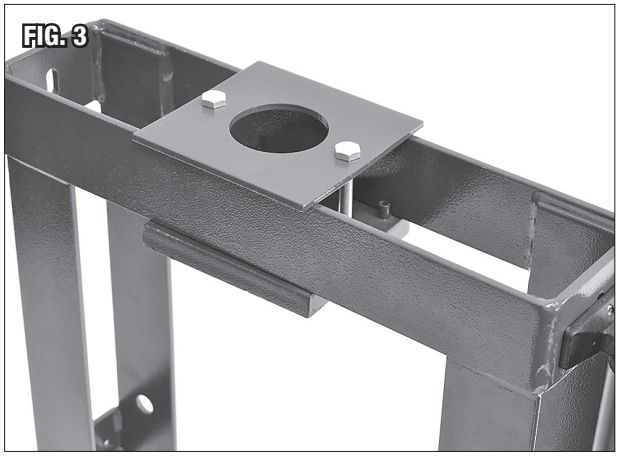


FIG. 4

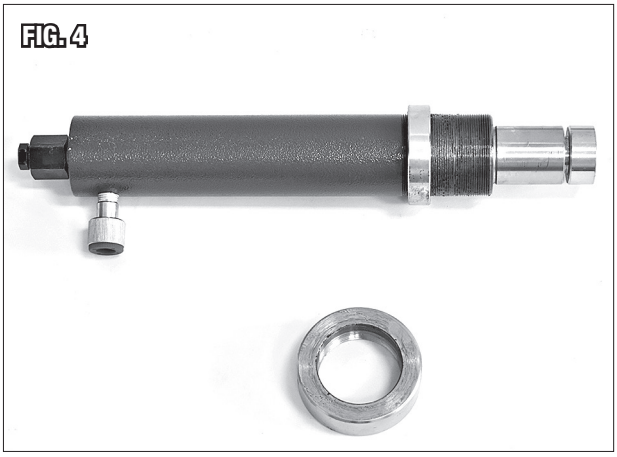


FIG. 5

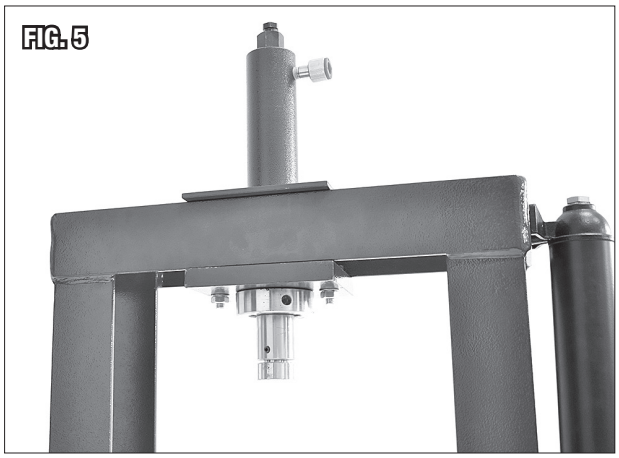
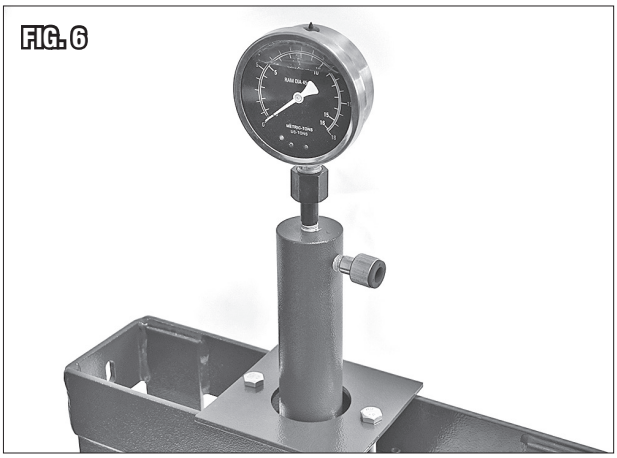


FIG. 6



- Remove the protective plastic cap from the female fitting on the side of the Ram **[G]** and thread the male, Hydraulic Pump hose fitting into it **(FIG 7)**.
- Insert the (2) Bed Support Pins **[K]** through the selected pair of four available height setting holes in the Frame side members **[A] (FIG 8)**.
- Feeding it from above at an angle, install the Table **[L]** between the Frame side members and resting on the Bed Support Pins **[K] (FIG 9)**.
- Slide the Pump Handle **[D]** into the Pumping Lever of the Ram **[G] (FIG 9)**.
- The Arbor Plates **[M]** are placed as needed on top of the Table **[L]** support the workpiece.

FIG. 7

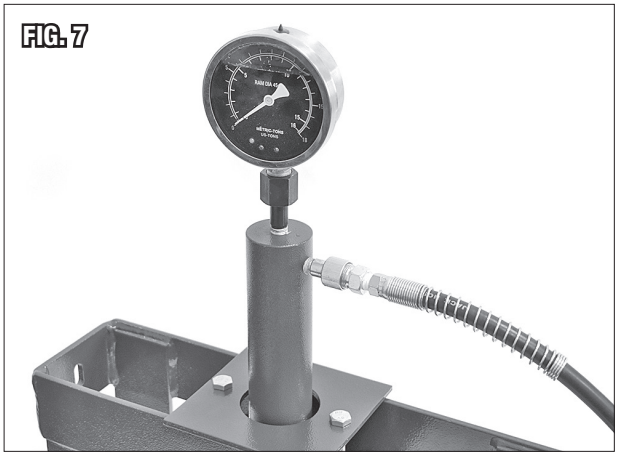


FIG. 8

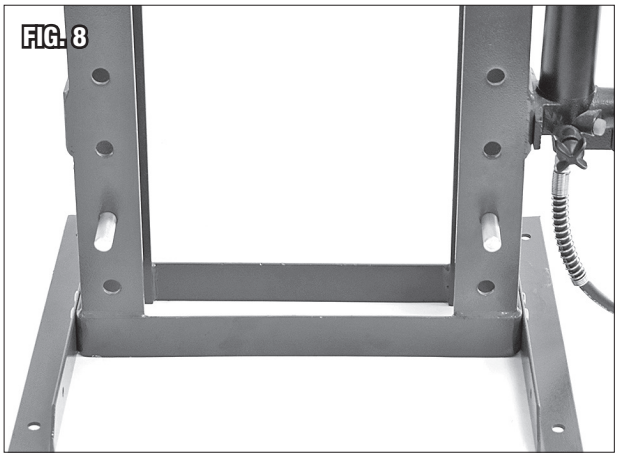
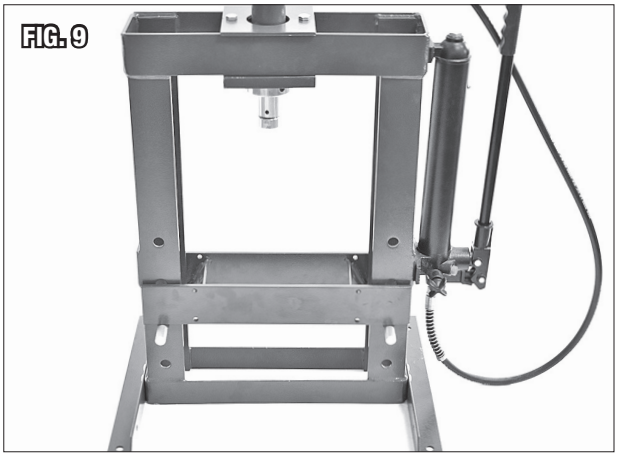


FIG. 9



SET-UP AND OPERATION

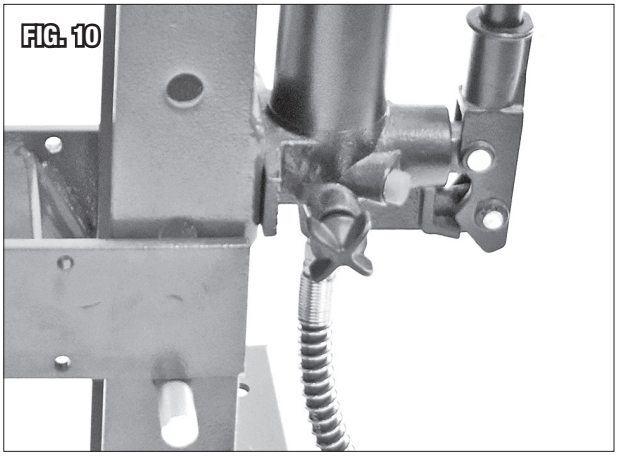


FIG. 10

INSTALLATION LOCATION

⚠ NOTICE

The Eastwood 10 Ton Benchtop Press is designed to be used in a Vertical position only with the Main Frame securely mounted on a stable surface. DO NOT attempt to use in a horizontal or any other position.
The Eastwood 10 Ton Shop Press MUST be installed on a solid and level surface for proper operation and safety.
For maximum stability, it is strongly recommended that the Shop Press be permanently mounted to a solid, secure workbench with a solid top surface of a minimum of 1/2" [13mm] thick.

To Mount:

- Place the Shop Press Feet over the selected location.
- Trace the four mounting holes in the Feet onto the mounting surface.

⚠ CAUTION

Check that no electrical wires or other hazards exist under the mounting surface before drilling.

- Drill four 3/8" [10mm] holes in the surface.
- Secure with four 3/8" bolts of adequate length (not included) with washers under the heads and nuts.

PRESS OPERATION

⚠ WARNING INJURY HAZARD!

While in use, objects under pressure in the Eastwood 10 Ton Shop Press can suddenly slip out of position, releasing a great deal of stored energy and force causing serious injury or death and property damage. Work from the Pump side of the Frame at all times. Do not allow others near the tool while in operation.

⚠ CAUTION INJURY HAZARD!

Use caution and do not allow side loading of the Ram piston if attempting offset loads.

⚠ NOTICE

Before beginning use, carefully plan out the positioning of the Support Table, Ram and Arbor Plates and analyze the expected movement of the workpiece to minimize the danger of sudden movement or slippage.

- The Ram **[G]** and Yoke Plate **[E]** & **[F]** assembly can be moved off center if necessary to apply an offset force is possible but not recommended due to the unequal stresses that can be transmitted through the frame. To do so, loosen the bolts, slide it into position then re-tighten bolts.
- Check that the Release Valve (Knob located at the Lower side of the Hydraulic Pump) **(FIG 10)** is closed. (Rotate in a Clockwise direction).
- Begin slowly operating Pump Handle while constantly observing the workpiece for expected movement and any signs of sudden slippage.
- When planned work is completed, carefully and slowly rotate the Release Valve (Rotate in a Counter-Clockwise direction) to release pressure.

MAINTENANCE

CHECK/ADD HYDRAULIC FLUID TO PUMP

- Check that the Release Valve **(FIG 10,** Knob located at the Lower Front side of the Hydraulic Pump**)** is closed. (Rotate in a Clockwise direction)
- Remove Oil Fill Screw at top of Pump. **NOTE:** Do Not lose Seal Ring.
- The fluid level should be visible at the bottom of the threads. If required, add a high-quality hydraulic fluid.
- Check that the Seal Ring is in place on the Fill Screw/Breather and thread the Fill Screw into the Pump securely.

STORAGE

- Keep in a clean, dry area free of corrosive moisture wit Ram in the retracted position. Covering with thick plastic is recommended.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Ram Stops Before Full Work Stroke is Completed	Low fluid level in Reservoir	Retract Ram fully and check fluid level. Add a high quality, hydraulic oil as needed.
	Offset forces causing binding of components	Retract Ram and check thoroughly for any offset forces acting on components.
	Pushing Capability of the Ram has been exceeded	Retract Ram and discontinue use.

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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