

Eastwood[®]

DO THE JOB RIGHT.[®]

Item #31657

1-TON GANTRY CRANE

INSTRUCTIONS



The Eastwood Gantry Crane features a heavy, all steel support structure and 5" swivel casters that can support up to a total loaded weight of 2000 lbs. [908kg.], yet is completely portable for rolling to the job and between project storage. A generous 93" [2.36m] span will accommodate large vehicles and projects.

CONTENTS

COMPONENTS

- (1) "I"-Beam - [A]
- (2) Post Assemblies - [B]
- (2) Base Assemblies - [C]
- (2) Swivel Casters - [D]
- (2) Locking Swivel Casters - [E]
- (4) Support Braces - [F]
- (2) Handcranks - [G]
- (2) Pin Retaining Clips - [H]
- (2) Height Pins - [J]

HARDWARE

- (16) M10 x 25mm Bolts
- (16) M10 Flat Washers
- (16) M10 Lock Washers
- (16) M10 Nuts
- (8) M12 x 35mm Bolts
- (8) M12 x 50mm Bolts
- (8) M12 x 110mm Bolts
- (24) M12 Flat Washers
- (24) M12 Lock Washers
- (24) M12 Nuts

TOOLS REQUIRED

- Two 16mm wrenches
- Two 18mm wrenches
- One 10mm wrench
- Grease Gun with a Zerk fitting coupler

SPECIFICATIONS

Max. Weight Capacity:	2000lb [908kg]
Overall Height ("I"-Beam at lowest position):	99" [2.5m]
Overall Extended Height ("I"-Beam at highest position):	147.5" [3.75m]
Minimum Vertical Clearance ("I"-Beam at lowest position):	94" [2.38m]
Maximum Vertical Clearance ("I"-Beam at highest position):	142.5" [3.61m]
Overall Width:	128" [3.25m]
Clearance Between Posts:	93-11/16" [2.36m]
"I"-Beam Dimensions:	3" W x 5" H (76.2 x 127mm)
Assembled Gantry Crane Weight:	550 lbs. [250kg.]

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 used with the safety alert symbol, 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.



⚠ DANGER SEVERE INJURY OR DEATH HAZARD!

- This Gantry Crane is designed for lifting heavy objects only.
- **DO NOT** move Gantry Crane while loaded.
- **DO NOT** concentrate a heavy load to either side of the Gantry Crane. This can cause the balance to shift suddenly, tipping the Gantry Crane which can quickly cause severe injury!
- **DO NOT** exceed the rated 2000 lbs. [908kg.] weight capacity.
- **DO NOT** use to support humans or animals.
- **DO NOT** climb on the Gantry Crane.
- **DO NOT** use the top of the Gantry Crane to support items other than an approved lifting device.
- **DO NOT** attempt to use with powered lifting devices.
- **DO NOT** use with lifting devices and/or chains, cables or ropes that are frayed, twisted, kinked or otherwise damaged.
- **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 Gantry Crane during use. Failure to ensure proper footing can quickly result in a fall which could inflict serious personal injury or property damage.



⚠ CAUTION PINCH/CRUSH HAZARD!

- This Gantry Crane 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 Gantry Crane consists of considerably heavy metal components (550 lbs. [250kg.] 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 necessary. **DO NOT** attempt to construct this Gantry Crane without assistance!
- The use of ANSI approved safety shoes, head protection gear and eye protection is necessary.
- Use saw horses or similar work stands (not included) to support larger components such as Posts and I-Beams during assembly.
- Perform assembly in a large, uncluttered area close to area of intended usage.
- Consider vertical clearance when choosing operation area.
- Allow sufficient area for operator and helper to remain clear when choosing operating area.
- 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 unfirm surface.
- **DO NOT** attempt to move the Gantry Crane while it is supporting a load.
- **DO NOT** attempt to raise or lower the "I"-Beam while it is supporting a load.

⚠ NOTICE

The Posts are pre-assembled with Pullies, Cables, Winches and Guide Tubes before shipment.

⚠ NOTICE

To prevent scratches and damage to the finish of the Gantry Crane components, it is strongly advisable to use cardboard, carpet, blankets etc. covering a minimum 10' x 10" area before beginning assembly.

ASSEMBLY

"I"-BEAM [A] TO POSTS [B]

- Begin by laying out the "I"-Beam [A] along with the Left [B] and Right [B] Post Assemblies on a soft surface with the Pulleys and Cables facing outward (FIG 1).
- Mate the flange plates of the I-Beam and Post Assemblies, align all holes and join them using Eight M12 x 35mm Bolts, M12 Washers, M12 Lock Washers and M12 Nuts (FIG 2).
- Tighten all hardware securely.

FIG. 1

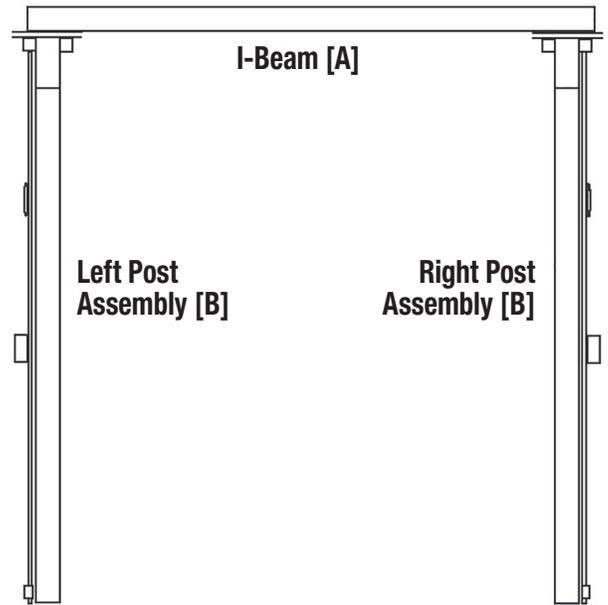
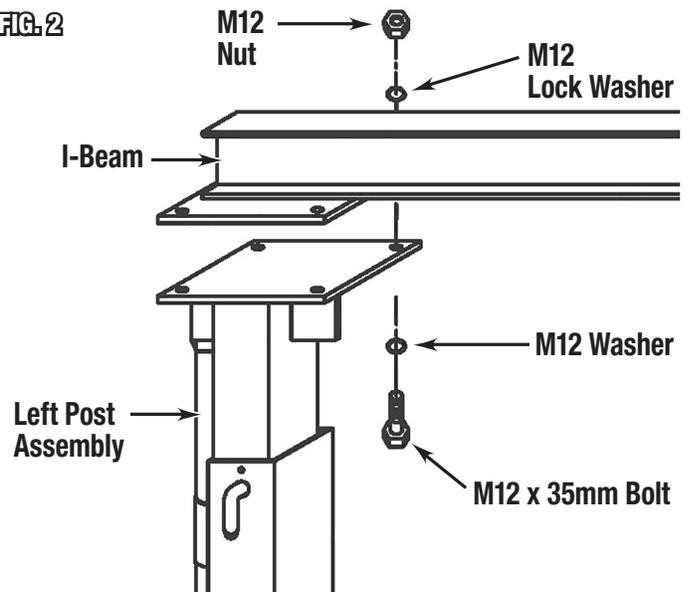


FIG. 2



MOUNTING CASTERS [E] & [F]

- Arrange the Bases [C] side by side so that the welded-on Sleeves are both facing to the outside (Fig 3).
- Attach the two Swivel Casters [D] & two Locking Casters [E] using sixteen M10 x 25mm Bolts, M10 Washers, M10 Lock Washers and M10 Nuts (Fig 4). Tighten all hardware securely.

NOTICE

Make sure the welded-on Sleeves are to the outside and the Locking Casters [E] are mounted on the same ends (Figs 3 & 4).

- Apply a liberal amount of a medium-bodied chassis grease to the Zerk fittings to adequately lubricate the ball bearings (Fig 5).

FIG. 3

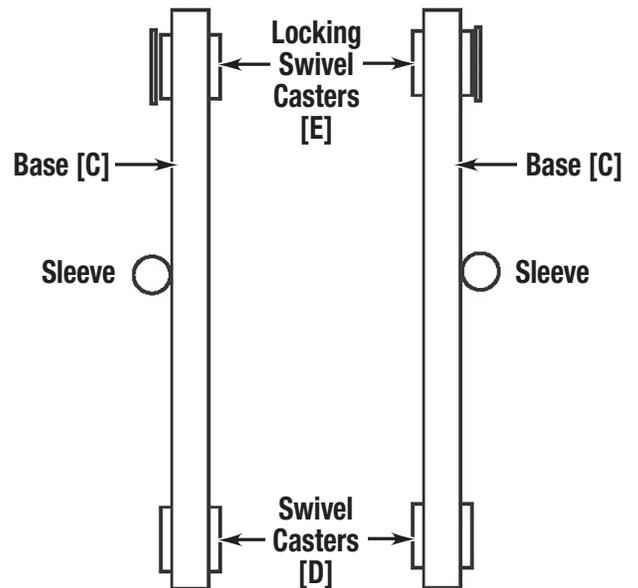


FIG. 4

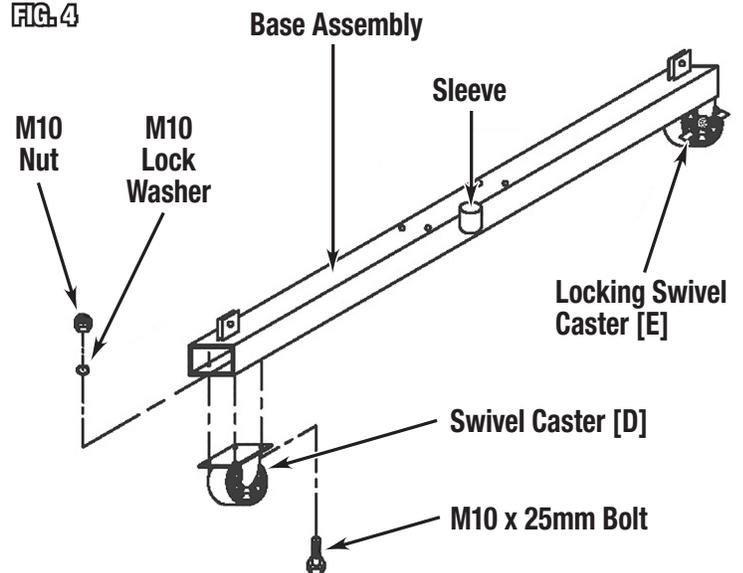
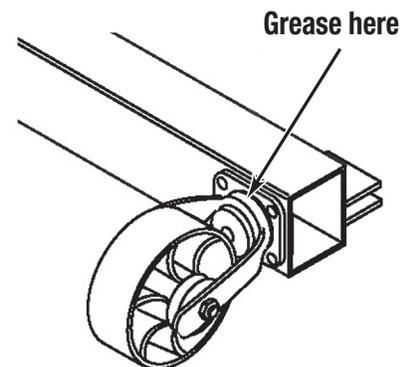


FIG. 5

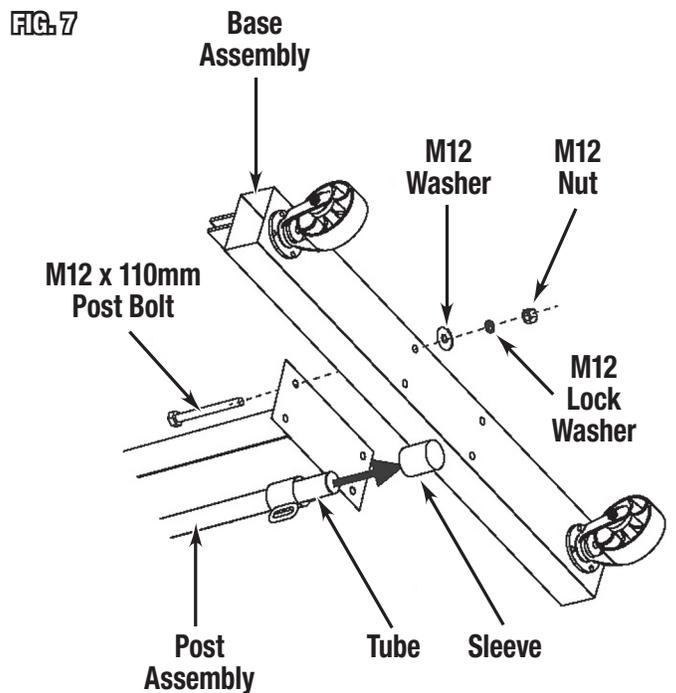
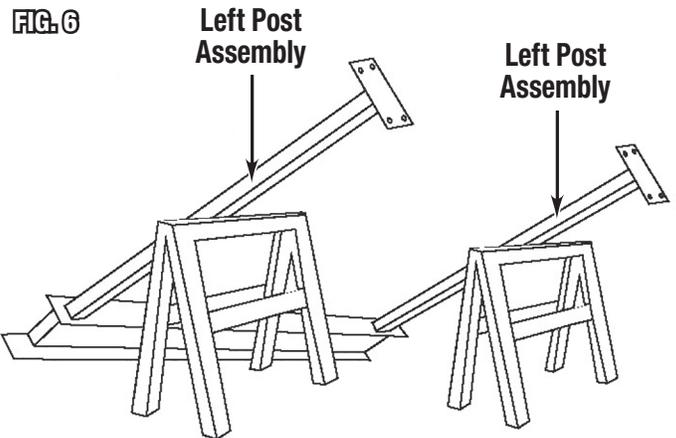


BASE/CASTER ASSEMBLIES TO POST/"I"-BEAM ASSEMBLY

⚠ CAUTION

Due to the size and considerable weight of the Gantry Crane components it is necessary to obtain the assistance of a capable helper during the following steps.

- With your helper lifting the opposite side, carefully raise the flanged ends of the Gantry Crane Post & Beam assembly so that it may be set up off the floor on sawhorses, work stands or similar supports (FIG 6).
- Attach the Left and Right Base/Caster assemblies by inserting the Guide Tubes of the Posts into the Sleeves of the Base/Caster assemblies, aligning the holes using Eight M12 x 110mm bolts, M12 Washers, M12 Lock Washers and M12 Nuts (FIG 7).
- Check for squareness of the assembly then tighten all hardware securely.
- With the assistance of a helper, carefully rotate the entire assembly upright so that it rests on the Casters.

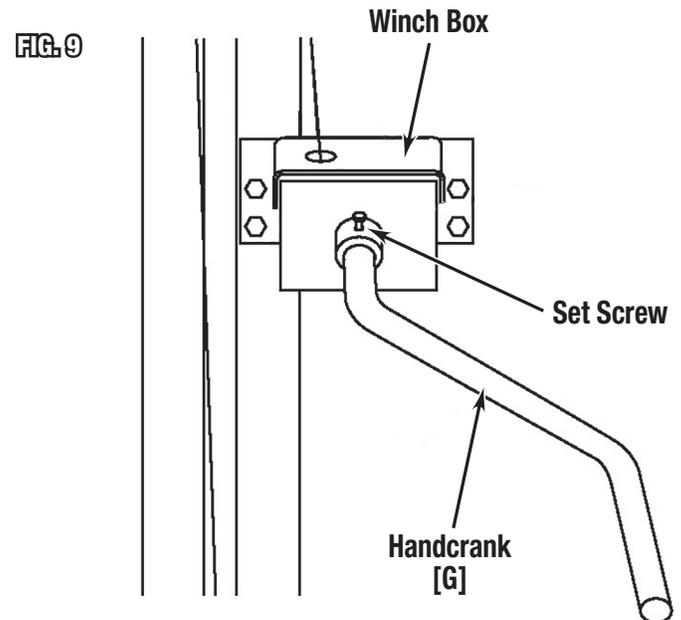
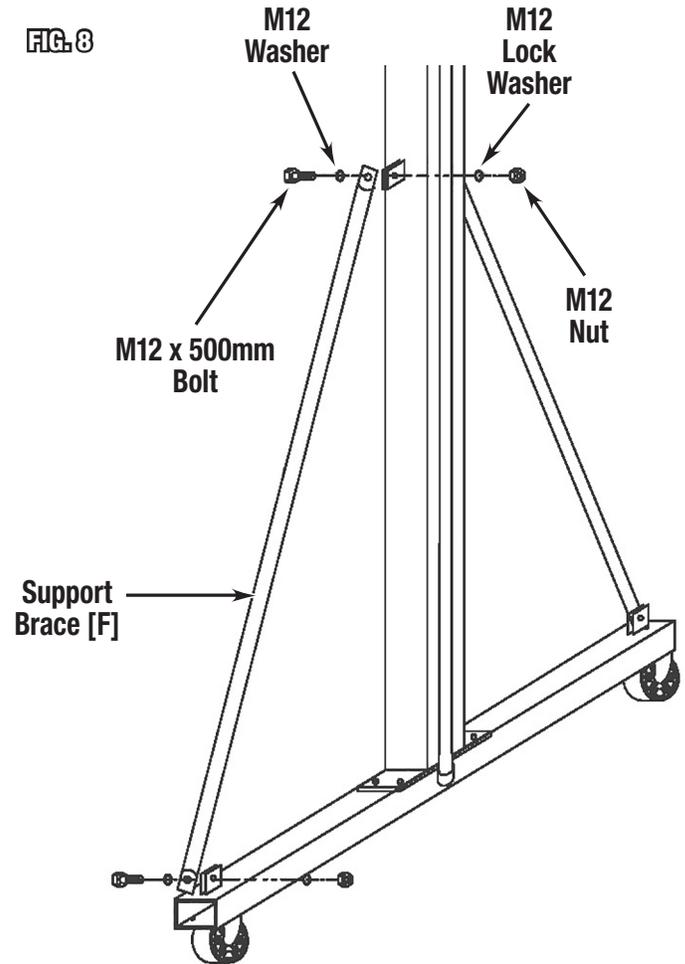


ATTACH SUPPORT BRACES [F]

- Place the flattened ends of the Four Support Braces [F] between the tabs at the outer ends of the Base Assemblies and at 65" up on the Posts. Secure with Eight M12 x 50mm bolts, M12 Washers, M12 Lock Washers and M12 Nuts (**FIG 8**).

ADDING HANDCRANKS [G]

- Place the pinned ends of the Handcranks [G] into the notched cups of the shafts extending from the Winch Gearboxes and tighten Set Screws to retain them in place (**FIG 9**).
- Once the assembly is complete, check that all four Casters contact the floor equally and that the entire unit is in square. If necessary and with the aid of a helper, loosen hardware to allow minute adjustments and retighten.
- Your Eastwood Gantry Crane is now ready for use.



OPERATION

SETTING "I"-BEAM HEIGHT

- Lock the two Locking Swivel Casters by pressing down on the Brake Lever. This will prevent the Gantry Crane from moving. To release brake feature, lift-up on Brake Lever.

⚠ CAUTION

Due to the size and considerable weight of the Gantry Crane components it is necessary to obtain the assistance of a capable helper during the following steps.

- Remove Pin Retaining Clips [H] from Height Pins [J] then carefully remove Height Pins [J] (FIG 10).
- Rotate the Handcranks [G] to operate the Winch Boxes and raise or lower "I"-Beam.
- Rotate Clockwise to raise "I"-Beam.
- Rotate Counter-Clockwise to lower "I"-Beam.

⚠ CAUTION

OPERATE BOTH POST WINCHES AT THE SAME TIME to keep the Inner Posts from Binding within the Outer Posts.

- Once the desired "I"-Beam height has been achieved, reinstall Height Pins [J] and secure in place with the Pin Retaining Clips [H] (FIG 10).

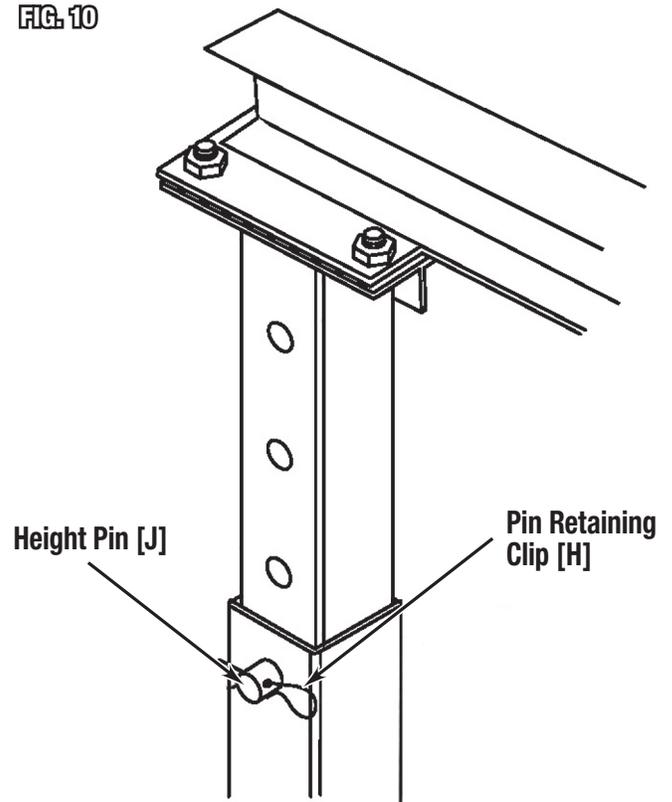
⚠ CAUTION

Store the Gantry Crane on a flat, level surface only to prevent possible unattended rolling and property damage.

⚠ NOTICE

When selecting attachments and lifting devices for use on the Gantry Crane, make sure that they are compatible with the "I"-Beam dimensions (3" W x 5" H [76.2 x 127mm]) and are safely capable of supporting the 2000 lb. [908kg.] weight limit of the Gantry Crane.

FIG. 10



MAINTENANCE

- Keep all moving components of the Gantry Crane well lubricated and free of dirt or debris accumulations.
- The Gantry Crane 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 Gantry Crane in a clean and dry environment. DO NOT store it in, or expose it to a damp or wet environment.
- Occasionally inspect all components for potential damage and proper alignment. Check all hardware for tightness.
- DO NOT use if damage is discovered.

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

The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: techelp@eastwood.com
PDF version of this manual is available online >> eastwood.com/31657manual

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