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FHA-series Fixed Height Aluminum Gantry Cranes

Receiving Instructions

After delivery, remove the packaging from the product. Inspect the product closely to determine whether it sustained damage during transport. If damage is discovered, record a complete description of it on the bill of lading. If the product is undamaged, discard the packaging.

NOTE: The end-user is solely responsible for confirming that product design, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

Technical Service & Replacement Parts

For answers to questions not addressed in these instructions and to order replacement parts, labels, and accessories, call our Technical Service and Parts Department at (260) 665-7586. The Department can also be contacted online at https://www.vestil.com/page-parts-request.php.

Electronic Copies of Instruction Manuals

Additional copies of this instruction manual may be downloaded from https://www.vestil.com/page-manuals.php

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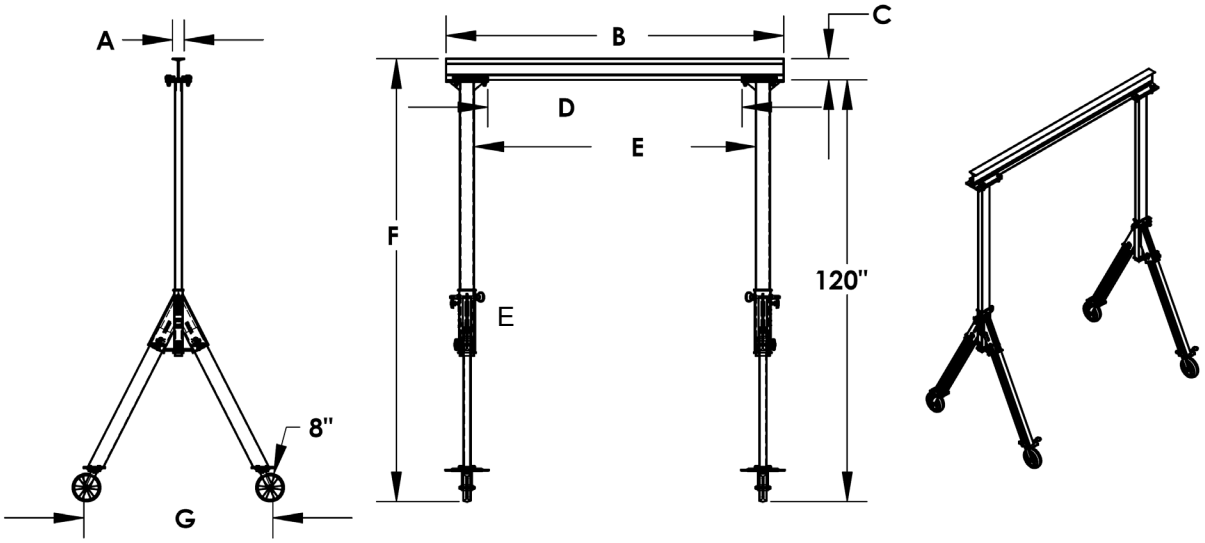
SPECIFICATIONS

Dimensions, net weight, and capacity information for each FHA-series crane are provided in the following tables. However, specifications are subject to change from time to time, particularly dimensions and net weight. Specifications documents for FHA-series cranes are provided on Vestil's website. To access the appropriate specifications document, navigate to the relevant webpage: https://www.vestil.com/product.php?FID=524. Click the "Product Specifications Table" drop-down menu bar partway down the page. Scroll down to the entry for the model you purchased and click the button in the column titled "PDF's" that looks like a pencil inside a box. A PDF file will open. This file is the specifications document. Print a copy of the document and keep it with your copy of this manual. The following is an exemplar specifications document.



Model	A	B	C	D	E	F	G	Capacity	Net Weight
FHA-2-8-10	3 5/16" 8.4cm	96" 244cm	6" 15.2cm	72 1/4" 184cm	80 1/8" 204cm	126" 320cm	53 3/4" 136.5cm	2,000 lb. 909 kg	277 lb. 126 kg
FHA-2-10-10	3 5/16" 8.4cm	120" 304.8cm	6" 15.2cm	96 1/4" 244.5cm	104 1/8" 264.4cm	126" 320cm	53 3/4" 136.5cm	2,000 lb. 909 kg	293 lb. 133.2 kg
FHA-2-12-10	4" 10.2cm	144" 365.8cm	8" 20.3cm	120 1/4" 305.4	128 1/8" 325.4cm	128" 325.1cm	53 3/4" 136.5cm	2,000 lb. 909 kg	315 lb. 143.2 kg
FHA-2-15-10	4 3/16" 10.6cm	180" 457.2cm	8" 20.3cm	156 1/4" 396.9cm	164 1/8" 417.9cm	128" 325.1cm	53 3/4" 136.5cm	2,000 lb. 909 kg	405 lb. 184.1 kg
FHA-4-8-10	4" 10.2cm	96" 244cm	8" 20.3cm	72 1/4" 184cm	79 5/8" 202.2	128" 325.1cm	53 15/16" 137.0cm	4,000 lb. 1,818 kg	346 lb. 157.3 kg
FHA-4-10-10	4 3/16" 10.6cm	120" 304.8cm	8" 20.3cm	96 1/4" 244.5cm	103 5/8" 263.2cm	128" 325.1cm	53 15/16" 137.0cm	4,000 lb. 1,818 kg	348 lb. 158.2 kg
FHA-4-12-10	4 3/16" 10.6cm	144" 365.8cm	8" 20.3cm	120 1/4" 305.4	127 5/8" 324.2cm	128" 325.1cm	53 15/16" 137.0cm	4,000 lb. 1,818 kg	366 lb. 166.4 kg
FHA-4-15-10	4 11/16" 11.9cm	180" 457.2cm	10" 25.4cm	156 1/4" 396.9cm	163 5/8" 415.6cm	130" 330.2cm	53 15/16" 137.0cm	4,000 lb. 1,818 kg	411 lb. 186.8 kg
FHA-6-8-10	4 11/16" 11.9cm	96" 244cm	10" 25.4cm	72 1/4" 184cm	79 1/8"" 201.0cm	130" 330.2cm	64 11/16" 164.3cm	6,000 lb. 2,727 kg	476 lb. 216.4 kg
FHA-6-10-10	4 11/16" 11.9cm	120" 304.8cm	10" 25.4cm	96 1/4" 244.5cm	103 1/8" 261.9cm	130" 330.2cm	64 11/16" 164.3cm	6,000 lb. 2,727 kg	494 lb. 224.5 kg
FHA-6-12-10	7" 17.8cm	144" 365.8cm	12" 30.5cm	120 1/4" 305.4	127 1/8" 322.9cm	132" 335.3cm	64 11/16" 164.3cm	6,000 lb. 2,727 kg	775 lb. 352.3 kg
FHA-6-15-10	7" 17.8cm	180" 457.2cm	12" 30.5cm	156 1/4" 396.9cm	163 1/8" 414.3cm	132" 335.3cm	64 11/16" 164.3cm	6,000 lb. 2,727 kg	874 lb. 397.3 kg

Optional equipment	Description
FHA-STLO	Stationary leg option, set of 4 (factory installed)
FHA-STLO-RF	Stationary leg option, set of 4 (field installation)

SIGNAL WORDS

This manual uses SIGNAL WORDS to indicate the likelihood of personal injuries, as well as the probable seriousness of those injuries, if the product is misused in the ways described. Other signal words call attention to uses of the product likely cause property damage. The following are signal words used in this manual and their definitions.

⚠ DANGER	**Identifies a hazardous situation which, if not avoided, WILL result in DEATH or SERIOUS INJURY. Use of this signal word is limited to the most extreme situations.**
⚠ WARNING	**Identifies a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY.**
⚠ CAUTION	**Indicates a hazardous situation which, if not avoided, COULD result in MINOR or MODERATE injury.**
NOTICE	**Identifies practices likely to result in product/property damage, such as operation that might damage the product.**

SAFETY INSTRUCTIONS

Vestil strives to identify foreseeable hazards associated with the use of its products. However, no manual can address every conceivable risk. The most effective way to avoid injury is to exercise sound judgment when assembling, using, inspecting, and maintaining this crane.

⚠ DANGER

Electrocution might result if the crane contacts electrified wires. DO NOT assemble or use the crane in an area where contact with electrified wires could occur.

⚠ WARNING

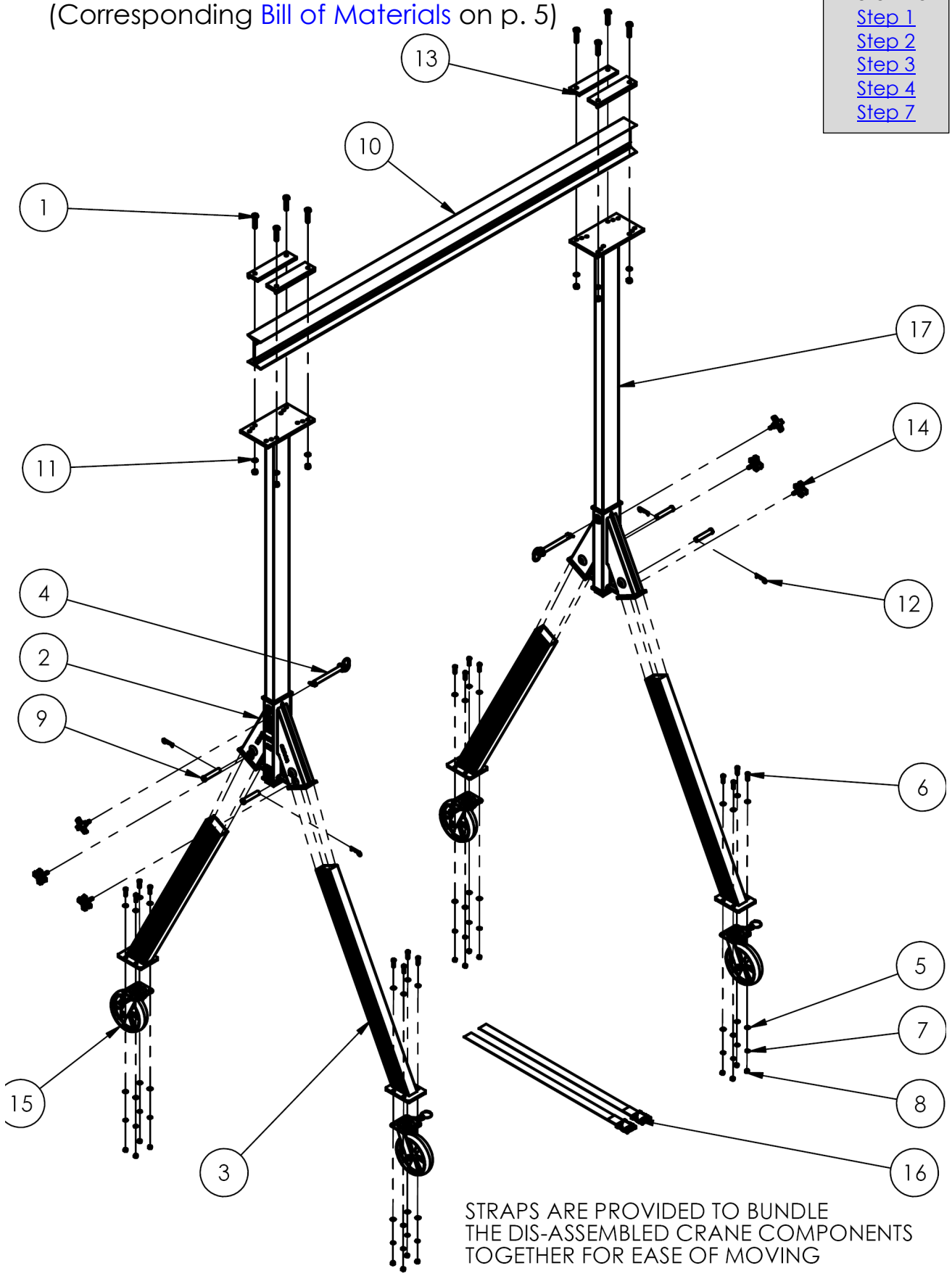
Material handling is dangerous. Improper or careless operation might result in serious personal injuries. To reduce the risk of injury:

- Inspect the usage area each time the crane is used. Make sure that all debris on the ground is removed.
- DO NOT use a damaged or malfunctioning crane. ALWAYS inspect the crane before each use by following the *INSPECTIONS* instructions on p. 12-13. DO NOT use the crane unless it passes every part of the appropriate inspection. DO NOT use the crane unless it is in *SATISFACTORY CONDITION*. See *RECORD* on page 11.
- DO NOT attempt to adjust the height of crane while a load is applied to it.
- Secure any hoist and/or trolley attached to the crane in the center of the I-beam before adjusting crane height.
- DO NOT attempt to lift a load that weighs more than the capacity of your crane. Capacity for each AHA model crane is provided in the *SPECIFICATIONS* section on page 2. Capacity also appears in the *LABELING DIAGRAM* section of this manual on p. 13, as well as on capacity labels applied to the product.
- Keep clear of the suspended load. DO NOT put any part of your body under a suspended load.
- Inform all persons in the usage area that you are going to use the crane; instruct them to stay clear of the crane and the load during operation.
- DO NOT lift people with the crane. DO NOT lift loads over people.
- DO NOT allow people to climb on the load or the crane.
- DO NOT operate manual motions with other than manual power.
- DO NOT push or pull the crane with a vehicle. Slowly & carefully push the trailing end of the crane to move it. DO NOT stand beneath the I-beam while pushing the crane. Only traverse even, level ground.
- ALWAYS load the crane in accordance with *LOADING THE CRANE* recommendations on p. 11.
- DO NOT lift a load unless it is centered under your hoist. A swinging load might cause serious injury.
- DO NOT remove or obscure any label on the crane. DO NOT use the crane if any label is damaged, missing, or not easily readable. See *LABELING DIAGRAM* on p. 13. Contact Vestil for replacement labels.
- DO NOT modify the crane in any way without the express approval of Vestil in writing. Unapproved modifications automatically void the *LIMITED WARRANTY* on p. 14 and might make the crane unsafe to use.
- **DO NOT use the crane to transport loads. ONLY use the crane to lift loads!**

EXPLODED VIEW: FHA-2 and FHA-4

(Corresponding Bill of Materials on p. 5)

Return to
Step 1
Step 2
Step 3
Step 4
Step 7



STRAPS ARE PROVIDED TO BUNDLE
THE DIS-ASSEMBLED CRANE COMPONENTS
TOGETHER FOR EASE OF MOVING

FHA-2 AND FHA-4 BILL OF MATERIALS (Exploded View on p. 4)

Item	Part no.	Description	Qty.
1	11134585	1/2"-13 x 2 1/2" A325 galvanized structural bolt and nut combo.	8
2		Yoke, casting, aluminum:	
	28-014-190	2k gantry: FHA-2-8-10; FHA-2-10-10; FHA-2-12-10; FHA-2-15-10	2
	28-014-272	4k gantry: FHA-4-8-10; FHA-4-10-10; FHA-4-12-10; FHA-4-15-10	2
3		Weldment, leg tube	
	28-514-220	2k capacity: FHA-2-8-10; FHA-2-10-10; FHA-2-12-10; FHA-2-15-10	4
	28-514-221	4k capacity: FHA-4-8-10; FHA-4-10-10; FHA-4-12-10; FHA-4-15-10	4
4	28-112-007	Hardware, retaining pin, 3/4" x 6 5/8"	2
5	33082	Washer, 3/8" zinc plated SAE flat washer	32
6	11107	Hex bolt, grade A, zinc finish, 3/8"-16 x 1 1/4"	16
7	33622	Split lock washer, carbon steel, medium zinc finish, 3/8"	16
8	36106	Hex nut, grade A, zinc plated, 3/8"-16	16
9		Clevis pin, zinc plated:	
	33-112-034	3/4"x 3 3/4": FHA-2-8-10; FHA-2-10-10; FHA-2-12-10; FHA-2-15-10	4
	28-112-031	3/4"x 4 1/2": FHA-4-8-10; FHA-4-10-10; FHA-4-12-10; FHA-4-15-10	4
10		Frame, I-beam extrusion:	
	28-014-986-001	FHA-2-8-10	1
	28-014-986-002	FHA-2-10-10	1
	28-014-987-002	FHA-2-12-10	1
	28-014-988-004	FHA-2-15-10	1
	28-014-987-001	FHA-4-8-10	1
	28-014-988-001	FHA-4-10-10	1
	28-014-988-002	FHA-4-12-10	1
	28-014-236	FHA-4-15-10	1
11	33626	Lock washer, zinc plated, 1/2"	8
12	45286	#11 hitch pin clip, 1/8" x 2 5/8"	4
13	28-516-054	Weldment, I-beam clamp	4
14	08-028-007	Knob, 3/8"-16 UNC thread x 1 1/4"	6
15	16-132-249	Caster, locking	4
16	28-025-003	Strap	2
17		Weldment, frame, upright:	
	28-514-291	2k capacity: FHA-2-8-10; FHA-2-10-10; FHA-2-12-10; FHA-2-15-10	2
	28-514-292	4k capacity: FHA-4-8-10; FHA-4-10-10; FHA-4-12-10; FHA-4-15-10	2

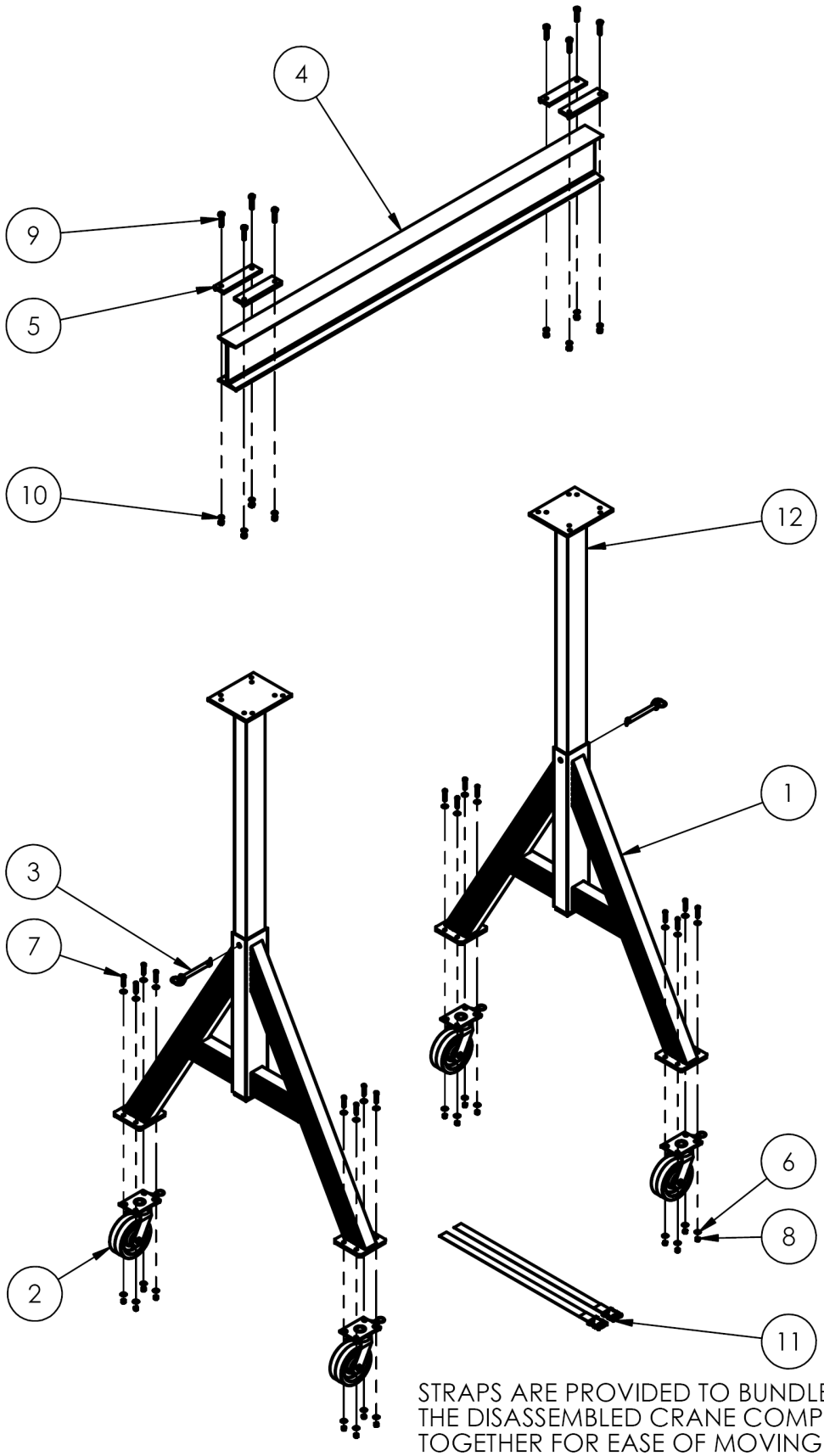
FHA-6 BILL OF MATERIALS (Exploded View on p. 6)

Item	Part no.	Description	Qty.
1	28-514-89	Frame, leg set, weldment	2
2	16-132-064	8" x 3" phenolic 4-way swivel locking caster	4
3	28-112-007	Hardware, retaining pin, 3/4" x 6 5/8"	2
4		Frame, I-beam extrusion:	
	28-014-355	FHA-6-8-10 (10" aluminum)	1
	28-014-356	FHA-6-10-10 (10" aluminum)	1
	28-014-357	FHA-6-12-10 (12" heavy duty aluminum)	1
	28-014-358	FHA-6-15-10 (12" heavy duty aluminum)	1
5		Weldment, I-beam clamp	
	28-516-054	FHA-6-8-10 & FHA-6-10-10	4
	28-516-061	FHA-6-12-10 & FHA-6-15-10	4
6	33008	Flat washer, low carbon, USS, zinc plated, 3/8"	32
7	11111	Hex bolt, grade A, zinc plated, 3/4"-16 x 2"	16
8	37024	Nylon insert lock nut, grade 2, zinc finish, 3/4"-16	16
9	11134585	1/2"-13 x 2 1/2" A325 galvanized structural bolt and nut combo.	8
10	33626	Lock washer, zinc plated, 1/2"	8
11	28-025-003	Strap	2
12	28-514-293	Weldment, frame, upright	2

EXPLODED VIEW: FHA-6

(Corresponding Bill of Materials on p. 5)

Return to
Step 1
Step 2
Step 3
Step 4
Step 7



STRAPS ARE PROVIDED TO BUNDLE
THE DISASSEMBLED CRANE COMPONENTS
TOGETHER FOR EASE OF MOVING

ASSEMBLY INSTRUCTIONS

NOTE: Numbers in parentheses () correspond to parts numbers in the *EXPLODED VIEWS* on pages 4 & 6.

⚠ WARNING

If the crane is improperly assembled, it might malfunction and result in serious personal injuries. Read this instruction manual in its entirety before assembling the crane.

- ONLY qualified personnel should assemble the crane.
- **DO NOT** modify the crane in any way. Unapproved modifications might make the crane unsafe to use and automatically void the *LIMITED WARRANTY* (see p. 14).
- **DO NOT** use the crane if you notice that the beam, uprights, casters or any part of the leg assemblies are damaged. Damage might weaken the crane and result in crane collapse.
- **DO NOT** use the crane if any of the hardware (bolts, nuts, clamps, etc.) is damaged or missing. Contact our *TECHNICAL SERVICE AND PARTS DEPARTMENT* at (260) 665-7586 to order replacement parts.
- **DO NOT** use the crane if any of the casters are damaged. A damaged caster may cause the crane to tip over while loaded or unloaded. The crane is more likely to tip while it supports a load.

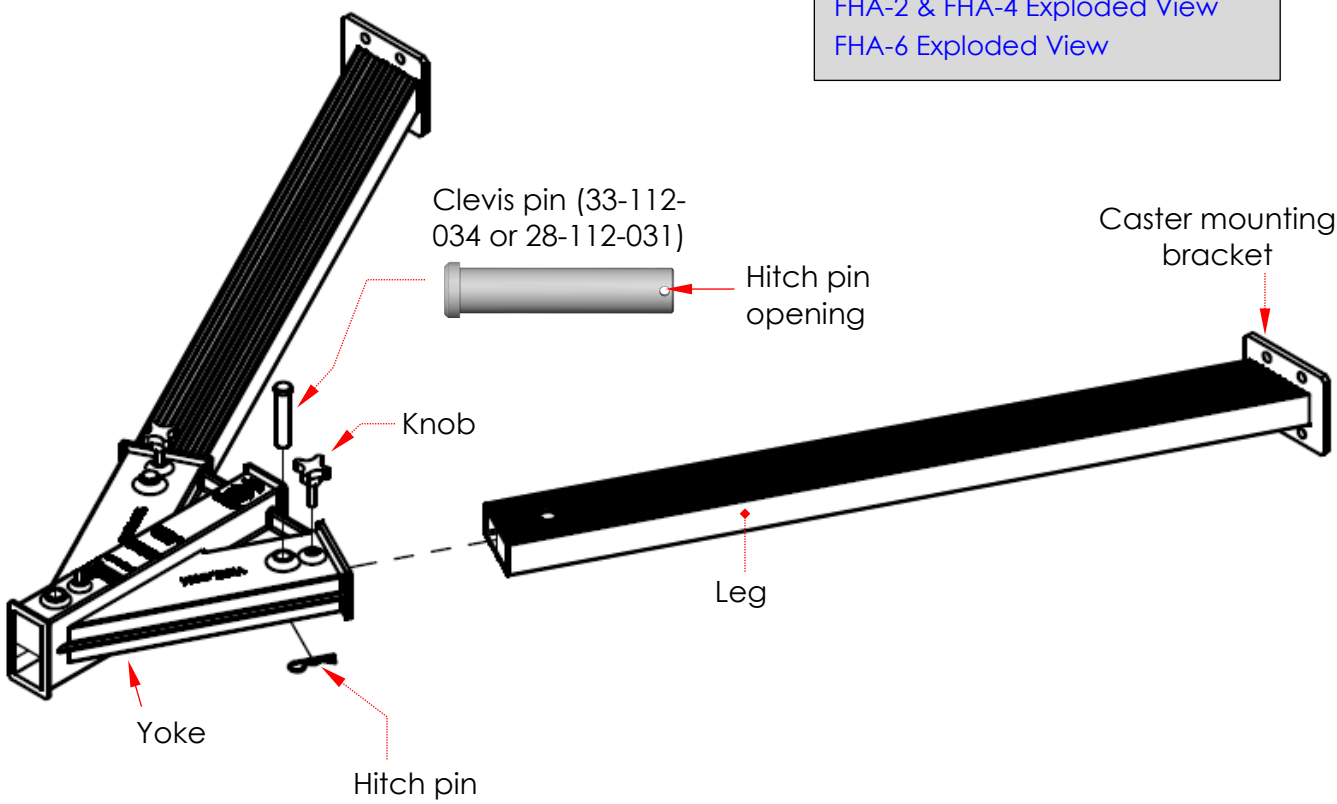
NOTICE

- Modifying the crane in any way automatically voids the *Limited Warranty*.
- This crane can be used outdoors. However, it should be sheltered from the weather when not in use.
- Inspect the crane for damage before each use as described in *Inspections & Maintenance*.

Step 1: [**This step only applies to FHA-2-#-10 and FHA-4-#-10 model cranes**] Attach the leg weldments and yokes

Insert the end of each leg into one of the leg openings in the yoke as shown below. Fasten the legs to the yoke with clevis pins (33-112-034 for all FHA-2's OR 28-112-031 for all FHA-4's) and secure the clevis pins with hitch clips (45286). Wind a knob (08-025-007) into the yoke until the end of the knob presses firmly against the leg.

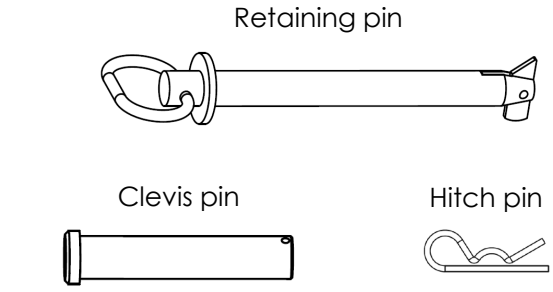
Links to:
FHA-2 & FHA-4 Exploded View
FHA-6 Exploded View

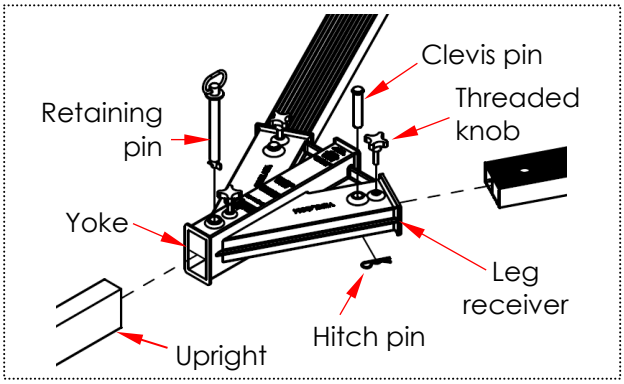


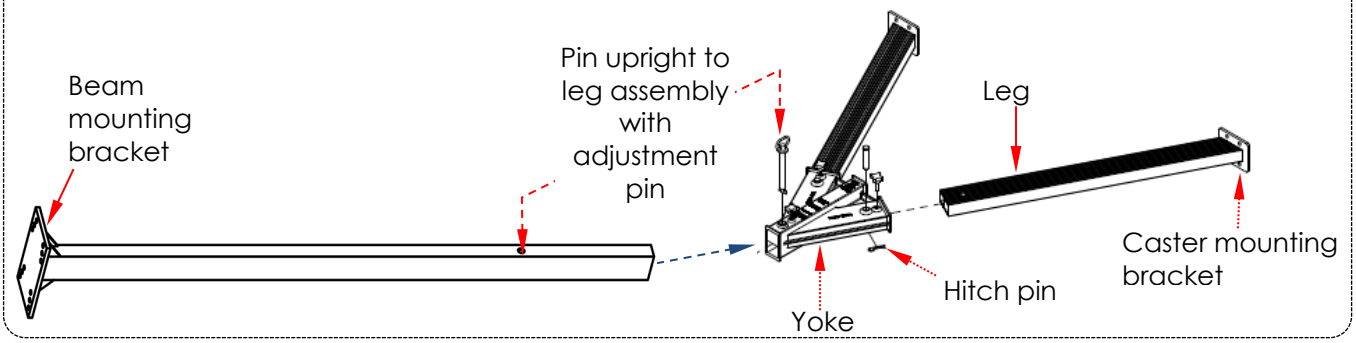
Step 2: Fasten uprights to leg assemblies (FHA-6-#-# models) or yokes (FHA-2-#-10 and FHA-4-#-10 models).

Insert an upright into the receivers of each yoke (FHA-2 & FHA-4) or leg set (FHA-6). Align the pinhole in the upright with the pinhole in the leg receiver. Pin the components together with adjustment pins. See the diagrams below and the applicable *EXPLODED VIEW* on either p. 4 or p. 6.

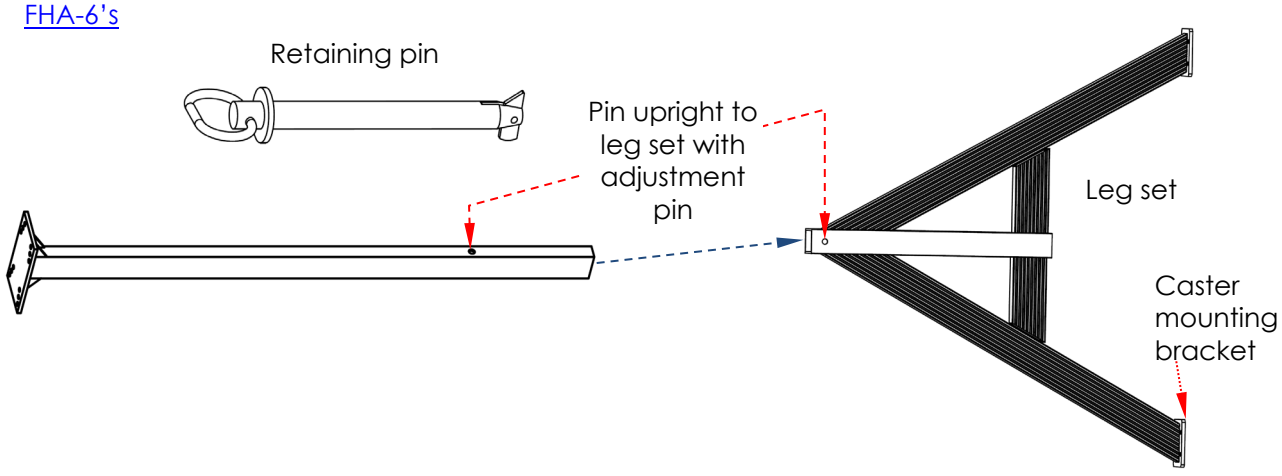
FHA-2's and FHA-4's





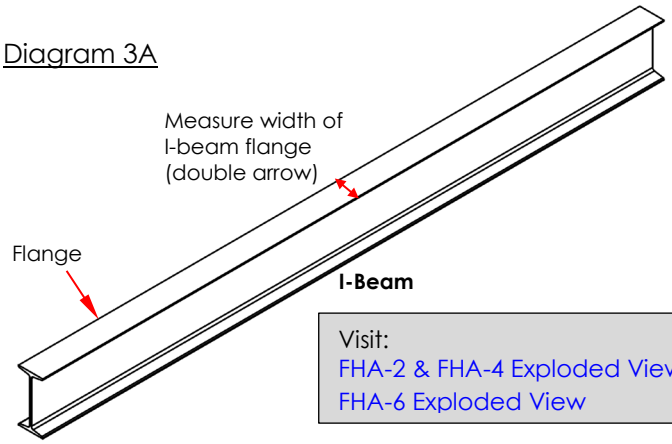


FHA-6's



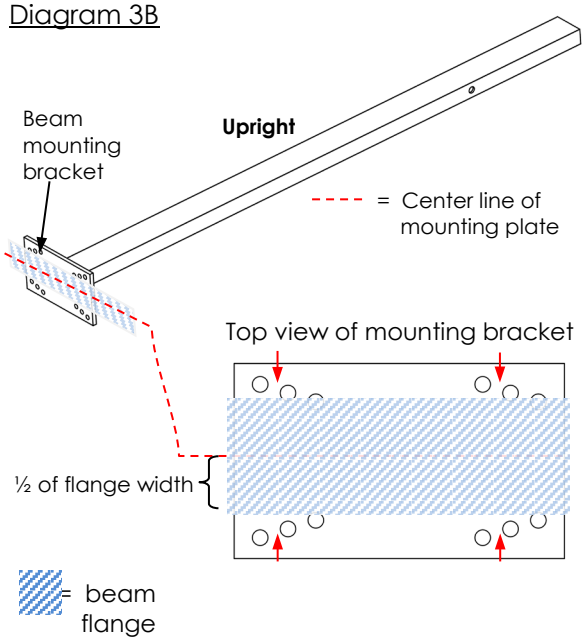
Step 3: Attach the uprights to the I-beam

Diagram 3A



Visit:
FHA-2 & FHA-4 Exploded View
FHA-6 Exploded View

Diagram 3B



1. Measure the width of the I-beam flange. See Diagram 3A.
2. Mark the centerline of the mounting bracket (of an upright) and measure half the width of the flange on either side of the centerline. (See Diagram 3B).
3. Identify the 4 bolt holes in the bracket that lie just outside the width of the beam flange.
   NOTE: The mounting brackets FHA-2's and FHA-4's have 3 sets of 3 holes. Mounting brackets of FHA-6's have 3 sets of 2 holes.

Step 4: Fasten the uprights to the I-beam. [Refer to FHA-2 & FHA-4 Exploded View or FHA-6 Exploded View]

a. As shown in Diagram 4A, attach 1 beam clamp to an upright. Insert bolts (11134585) through the beam clamp bolt holes and through the selected bolt holes in the mounting bracket. Put a lock washer on each bolt. Secure the bolts with nuts (11134585). Do not fully tighten the nuts at this point. Fasten another beam clamp to the other upright in the same manner.
b. Insert the flange of the I-beam into the gap between the beam clamp and the mounting bracket. See dashed red arrow in Diagram 4C.
c. Install another beam clamp on the other side of the beam to secure the flange on both sides. See blue line in Diagram 4C. Diagram 4B shows the spatial relationships of the beam clamp, beam flange, and mounting bracket.

Diagram 4A: Clamp I-beam flange to beam brackets of uprights

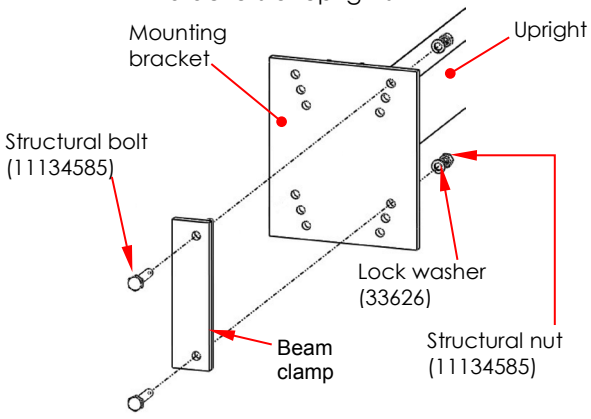


Diagram 4B: Properly clamped flange

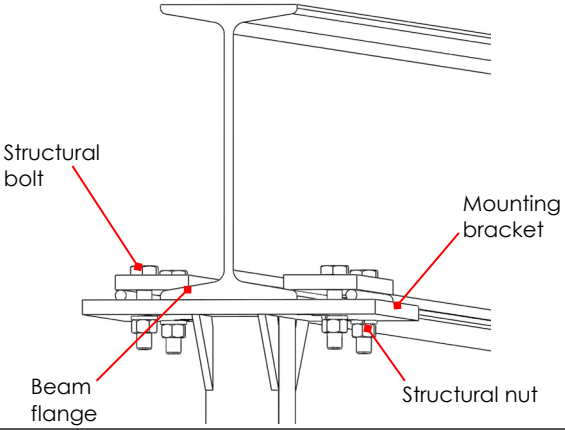
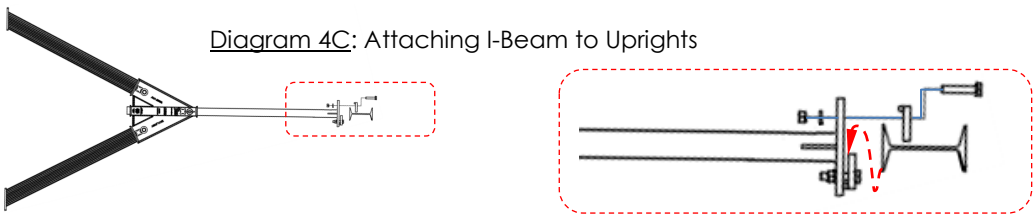


Diagram 4C: Attaching I-Beam to Uprights



Step 5: Make sure that the I-beam is centered on the mounting plate of each upright. Beam clamps should significantly overlap the flange on both sides. Tighten the nuts to 50 - 52 ft·lb of torque.

Step 6: Stand the crane on its feet.
Rotate the crane onto its feet in a controlled manner. [E.g. 1) Attach a hoist chain to the I-beam and slowly raise the beam until the crane rotates onto its feet. 2) Raise the crane with a fork truck. Drive the forks under the middle of the beam. Slowly raise the forks and drive forward until the crane rotates onto its feet.]

Step 7: Connect casters to the legs. [Refer to FHA-2 & FHA-4 Exploded View or FHA-6 Exploded View]
Attach a caster to the caster brackets of each leg using the hardware shown in Diagrams 7A & 7B (diagrams show standard casters). Raise the crane 8 to 10 inches from the ground with a fork lift or hoist. Position a caster underneath each foot as shown in the applicable diagram below. Fasten it to the caster mount bracket.

Diagram 7A: Caster installation for 2,000 lb. and 4,000 lb. capacity models FHA-2-#-10 and FHA-4-#-10

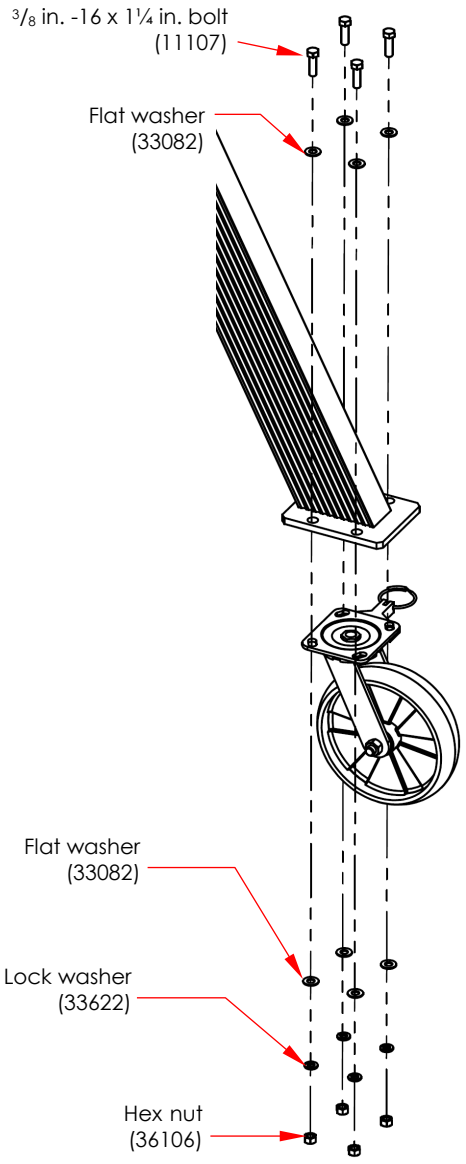
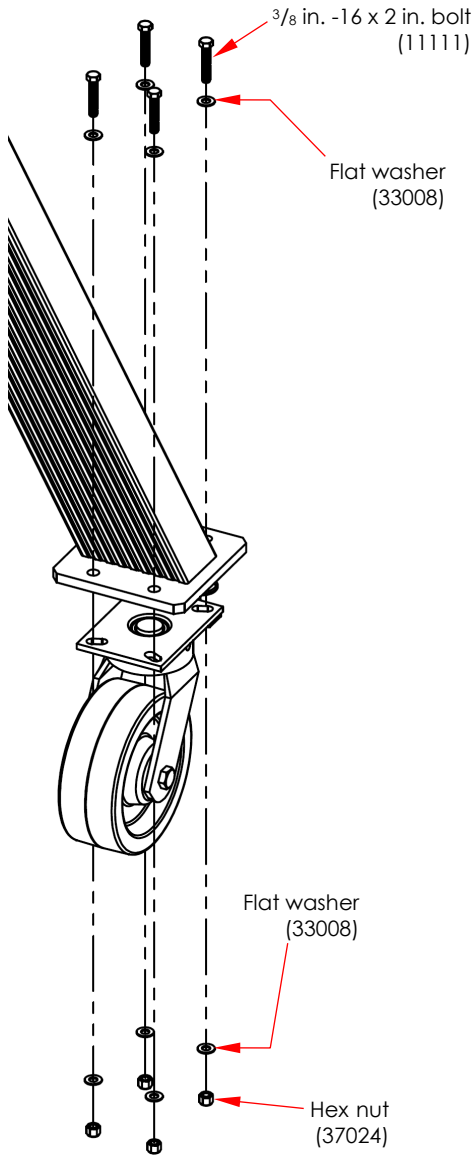


Diagram 7B: Caster installation for 6,000 lb. capacity models (AHA-6-#-#)



USING THE CRANE

Before using the crane, perform a *BEFORE & AFTER EACH USE* inspection described on p. 12.

⚠WARNING

Operate the crane in a safe manner to reduce the risk of serious personal injuries or death.

- Only use this crane if you are qualified and trained to use it. The operating instructions in this manual *supplement* safe crane and hoist operation practices applied at your work site. Acquire a copy of the most recent edition of ASME B30.17 and apply all operation, inspection, maintenance, and care recommendations.
- ALWAYS apply the safe material handling practices learned from your training program.
- All personnel not participating in the use of the crane must stay out of the area during use. Be certain no part of any person or object is under any part of the boom (I-beam) or the suspended load at any time and particularly before lowering it. Instruct all persons to remain at a safe distance during operation.
- Always carefully watch the boom and any load hanging from it while using the crane.
- Always follow the hoist and trolley manufacturers' instructions regarding proper use of their products.
- BEFORE the load is connected to the hoist, lock or immobilize the casters, for example with chocks.
- Only use this crane on level concrete (or equal) surface.
- DO NOT use the crane and notify your supervisor and authorized maintenance personnel if: 1) you observe any damage or hear unusual noise during operation; or 2) you observe any warping or deformation of the I-beam, the adjustable uprights, the load hook or hoist chain/cable.
- DO NOT operate a hoist with a twisted, kinked, or damaged chain or rope. DO NOT operate a rope hoist unless the rope is properly seated in its groove.

LOADING THE CRANE

Position the trolley and hoist directly above the load. Center the trolley and hoist above the center of the load and position the long axis of the I-beam above the center of the load. Proper positioning is illustrated in Diagrams 8A & 8B.

Connect a load to the hoist according to the instructions supplied with your hoist and the method applied at your work site; then raise the load only as high as is necessary to position it. Once the load is properly centered above the work location, lower the load until it is fully supported by the ground or work surface and disconnect the load from the hoist. Return the crane to its storage locations.

If you must move the load to a different location, return the load to the ground or other supporting surface, e.g. pallet, and disconnect it from the hoist. **Move the crane and load separately to the work location. Only use the crane to lift loads.**

Diagram 8A: Center the hoist above the load center.

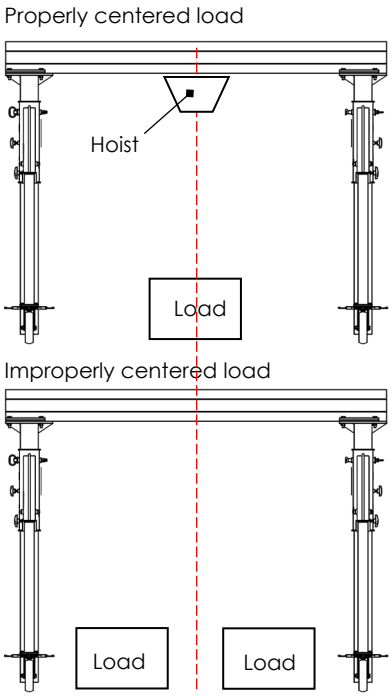
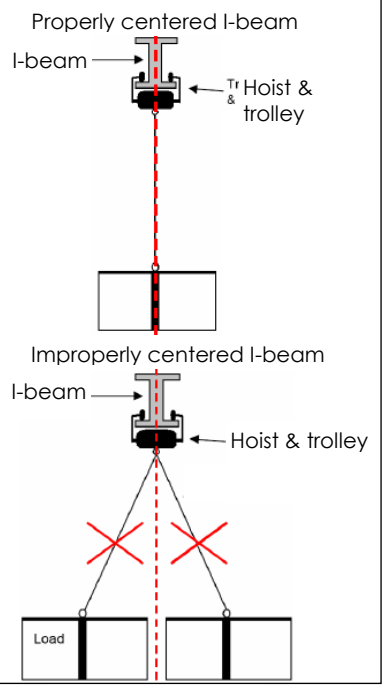


Diagram 8B: Center the I-beam above the center of the load.



RECORD OF SATISFACTORY CONDITION (THE "RECORD")

Thoroughly inspect the crane after assembling it and before putting it into service. Record the condition and appearance of each of the frame members (I-beam, tube weldments, yokes, uprights), the wheels and/or casters, beam clamp, and all fasteners (bolts, nuts, etc.). Thoroughly photograph the crane from multiple angles. Include close range photographs of the casters and/or wheels, all labeling, and all beam clamp connections. Add the photographs to the record. Collect all photographs and writings in a single file. This file is a record of the crane in satisfactory condition. Compare the results of all *INSPECTIONS* to this Record to determine whether the crane is in satisfactory condition. Do not use the crane unless it is in satisfactory condition. Purely cosmetic changes, like damaged paint or powdercoat, are not changes from satisfactory condition. However, touchup paint should be applied as soon as damage occurs.

NATIONAL STANDARDS

This product is a portable A-frame gantry crane (PGC). ASME standard B30.17 (the "Standard") applies to PGC's. You *should* acquire a copy of the latest version of the standard. Follow all use and maintenance/care instructions provided in the Standard as well as all other provisions for PGC owners and users. If any content in this manual conflicts with any recommendations or mandatory provision(s) in the Standard, apply the provision(s) from the Standard. Vestil encourages you to immediately contact *TECHNICAL SERVICE* if you discover any inconsistencies.

INSPECTIONS AND MAINTENANCE

NOTE: Inspection procedures are included in the most current revision of ASME B30.17. As stated above in the *NATIONAL STANDARDS* section, Vestil recommends that you acquire a copy of the most recent revision of this standard. Apply all use and maintenance/care instructions in the standard. Vestil also recommends that you contact your local occupational health and safety authority to determine if any laws, regulations, codes, ordinances, etc. apply inspection requirements where the crane is used.

Inspections and all necessary repairs should be performed by qualified persons. Compare the results of each inspection to the *RECORD OF SATISFACTORY CONDITION*. Do not use the crane unless every part is in satisfactory condition. **DON'T GUESS! If you have any questions about the condition of your crane, contact the *TECHNICAL SERVICE* department.** The phone number is provided on the cover page of this manual. *Never make temporary repairs of damaged or missing parts*. Only use manufacturer-approved replacement parts to restore the crane to satisfactory condition.

A. **Before and after each use**, including first use, unload the crane and inspect the following components:
   1) **I-Beam –** Examine the beam, especially the lower flanges, for bends, cracks, and other damage.
   2) **Beam clamps and beam clamp fasteners** – Clamp connections are shown in *Step 4* on p. 9. Verify that all lock washers are fully compressed. The clamps should equally overlap the I-beam flange.
   3) **Beam brackets –** Look for cracks, elongations around bolt holes, warps, bends, etc.
   4) **Casters and caster fasteners** – Examine each caster for cracks, warps, tears, grooves, pitting, and significant wear. Push the crane a short distance. All 4 casters should be in continuous contact with the ground. Confirm that the casters roll smoothly without wobbling or skidding. Make sure that caster fasteners are tightly connected. Fastener connections are shown in *Step 7* on p. 10.
   5) **Pins** – Check both retaining pins (all models) and all 4 clevis pins (FHA-2 and FHA-4 models only). Pinned connections are shown in *Step 2* on p. 8. Retaining pins should be fully inserted and pin stops should be perpendicular to the pins to secure them in place. All 4 of the clevis pins should be fully inserted and secured in place with cotter pins.
   6) **Yokes (FHA-2 & FHA-4 models) –** Closely examine both yokes. Look for cracks, bends, chips, warps, and other forms of damage. Pay particular attention to the openings in the yoke. Make sure that there are no elongations, warps, or cracks around the openings.
   7) **Legs (FHA-2 & FHA-4 models)** – Check all 4 of the leg tubes for damage.
   8) **Leg assemblies (FHA-6 models) –** Inspect both leg assemblies. Look for cracks, bends, warps, and other forms of damage. Pay particular attention to pin holes & bolt holes. Look for elongations, cracks, etc.

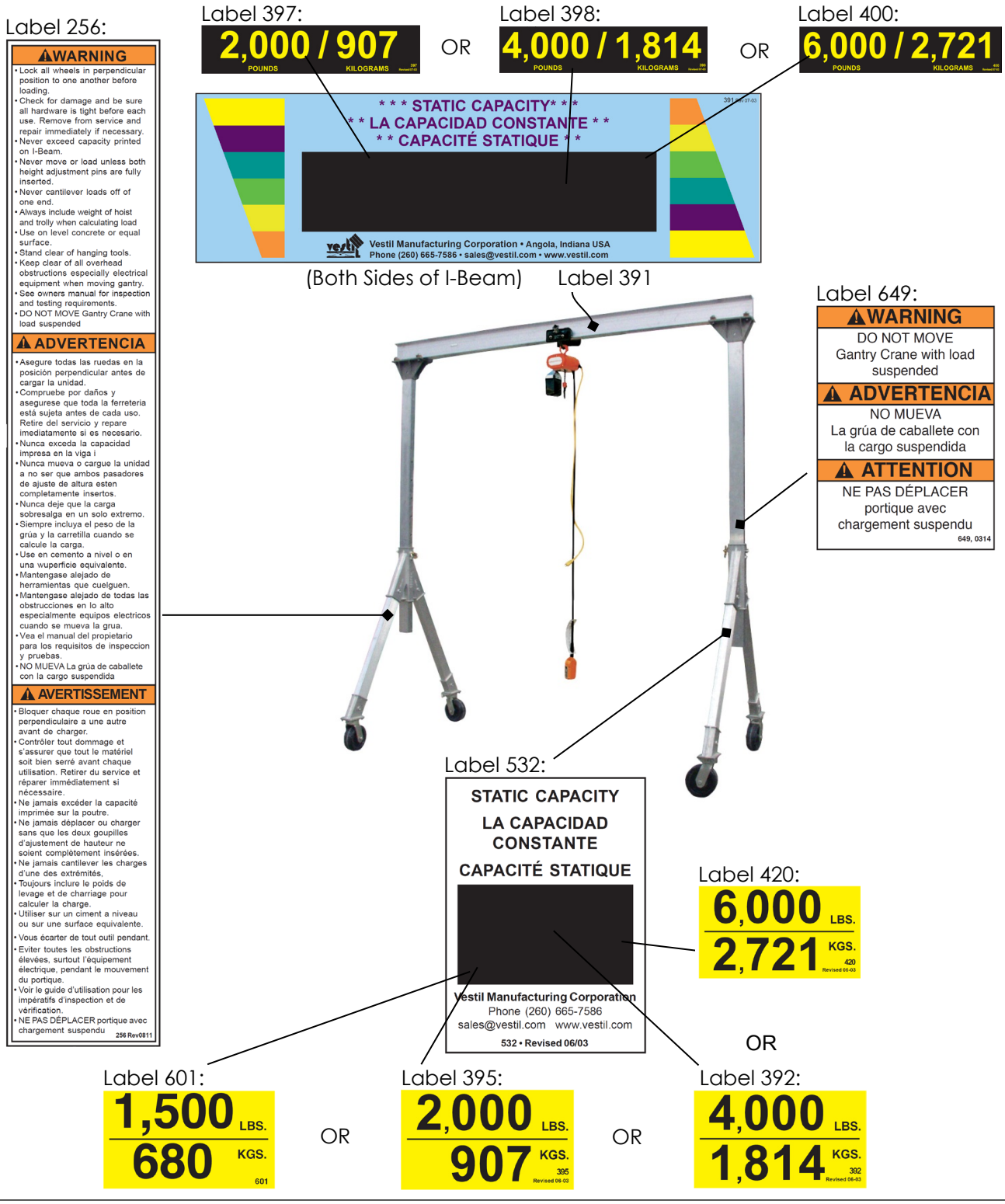
B. **Monthly inspections** – Unload the crane and inspect the following:
   1) **Beam clamps and beam clamp fasteners** – Use a torque wrench to tighten each bolt and nut to 50-52ft·lb. Examine all of the clamps for damage such as deformations and cracks. The I-beam flange should be solidly/immovably clamped to the tops of the uprights.
   2) Lay the crane over so that the I-beam is on the ground and inspect:
      a) **Pins**
         i. Retaining pins (all models): One at a time, remove each retaining pin and examine it. Look for cracks, warps, pitting, and other forms of damage. Confirm that the pin stop operates normally. Reinstall each pin after inspecting it.
         ii. Clevis pins (FHA-2 & FHA-4 models): One at a time, inspect each clevis pin. Closely examine the clevis pin and its cotter pin for damage. Remove the leg tube and perform the indicated inspection. When the inspection is finished, reinstall the clevis pin and its cotter pin.
      b) **Legs** – Examine the pin holes in the top end of each leg. Look for elongations, cracks, and other forms of damage. Reinstall each leg once its inspection is finished.

C. **Once per year**: Perform a load test of the crane. Lift a load equal to 125% of its rated load (capacity). Only lift the load high enough to ensure that it is entirely supported by the crane. Transport the load by means of your hoist (or hoist & trolley) the full usable length of the I-beam (dimension D in *SPECIFICATIONS* table). Return the test load to the ground. Perform inspections A (Before and after each use) and B

(Monthly). **NOTE:** Perform this part C (Load test and a Before & After Use inspection) whenever the crane is partially or fully disassembled and reassembled, e.g. after installing replacement parts.

LABELING DIAGRAM

Label content and location are subject to change so your product might not be labeled exactly as shown. Compare the diagram below to your *RECORD OF SATISFACTORY CONDITION*. If there are any differences between actual labeling and this diagram, contact *TECHNICAL SERVICE*.Replace all labels that are damaged, missing, or not easily readable (e.g. faded). To order replacement labels or to inquire whether your unit is properly labeled, contact the technical service and parts department online at http://www.vestilmfg.com/parts_info.htm or by calling (260) 665-7586 and asking for the *PARTS DEPARTMENT*.



LIMITED WARRANTY

Vestil Manufacturing Corporation ("Vestil") warrants this product to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective, original part covered by the warranty after we receive a proper request from the Warrantee (you) for warranty service.

Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

Definition of "original part"?

An original part is a part used to make the product as shipped to the Warrantee.

What is a "proper request"?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the Customer Invoice that displays the shipping date; AND 2) a written request for warranty service including your name and phone number. Send requests by one of the following methods:

US Mail	Fax	Email
Vestil Manufacturing Corporation	(260) 665-1339	info@vestil.com
2999 North Wayne Street, PO Box 507	Phone	Enter "Warranty service request"
Angola, IN 46703	(260) 665-7586	in subject field.

In the written request, list the parts believed to be defective and include the address where replacements should be delivered. After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil will require you to send the entire product, or just the defective part (or parts), to its facility in Angola, IN.

What is covered under the warranty?

The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, and cylinders. It also covers defects in original parts that wear under normal usage conditions ("wearing parts"), such as bearings, hoses, wheels, seals, brushes, and batteries.

How long is the warranty period?

The warranty period for original dynamic components is 1 year. For wearing parts, the warranty period is 90 days. Both warranty periods begin on the date Vestil ships the product to the Warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend a warranty period for products shipped from authorized distributors by up to 30 days to account for shipping time.

If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any *covered* part. An authorized representative of Vestil will contact you to discuss your claim.

What is not covered by the warranty?

The Warrantee (you) is responsible for paying labor costs and freight costs to return the product to Vestil for warranty service.

Events that automatically void this Limited Warranty.

- Misuse;
- Negligent assembly, installation, operation or repair;
- Installation/use in corrosive environments;
- Inadequate or improper maintenance;
- Damage sustained during shipping;
- Collisions or other accidents that damage the product;
- Unauthorized modifications: Do not modify the product IN ANY WAY without first receiving written authorization from Vestil.

Do any other warranties apply to the product?

Vestil Manufacturing Corp. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty. Vestil makes no warranty or representation that this product complies with any state or local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect.