



Vestil Manufacturing Corp.

2999 North Wayne Street, P.O. Box 507, Angola, IN 46703

Telephone: (260) 665-7586 Toll Free (800) 348-0868

Fax: (260) 665-1339

www.vestilmfg.com e-mail: info@vestil.com

CANT-Series Cantilever Carts Instruction Manual



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:

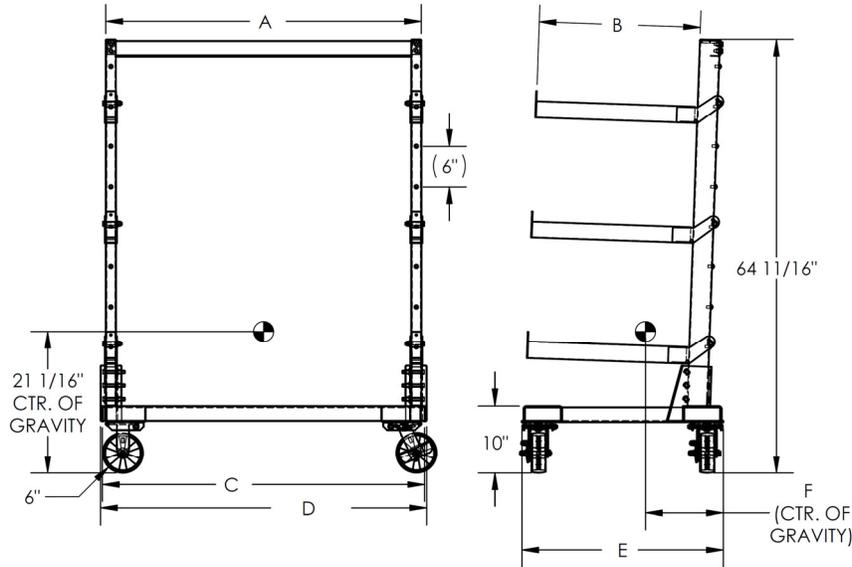
The end-user is solely responsible for confirming that product design, installation, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

Table of Contents

Specifications.....	2
CANT-3048 Exploded Parts View and Bill of Materials.....	2
CANT-3060 Exploded Parts View and Bill of Materials.....	3
CANT-3648 Exploded Parts View and Bill of Materials.....	3
Signal words.....	4
Hazards of improper use.....	4
Assembling the cart.....	5 - 6
Using the rack.....	6
Inspections.....	6
Labeling diagram.....	7
Limited Warranty.....	8

Specifications:

Dimensions, capacity, and net weight appear in the diagrams and tables below.

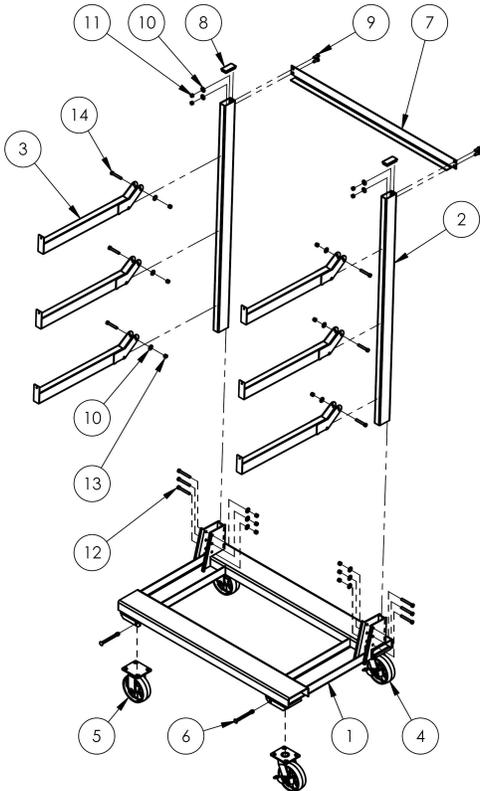


Model	A	B	C	D	E	F	Net weight
CANT-3048	47"	24"	48"	48 ⁹ / ₁₆ "	30"	11 ⁹ / ₁₆ "	177 lb.
CANT-3060	59"	24"	60"	60 ⁹ / ₁₆ "	30"	11 ³ / ₄ "	191 lb.
CANT-3648	47"	30"	48"	48 ⁹ / ₁₆ "	36"	14"	190 lb.

Overall capacity: 2,000 lb.
Capacity per arm: 400 lb.

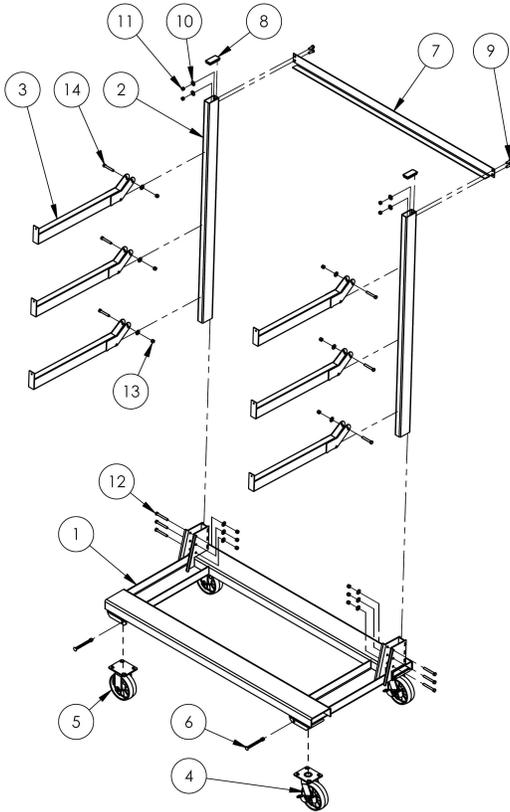
Arm height adjustability: 6" increments (spacing between bearing pins is 6")
Arm inclination: 7° above horizontal when bolted through upper holes
2° above horizontal when bolted through lower holes

CANT-3048 Exploded Parts Diagram and Bill of Materials



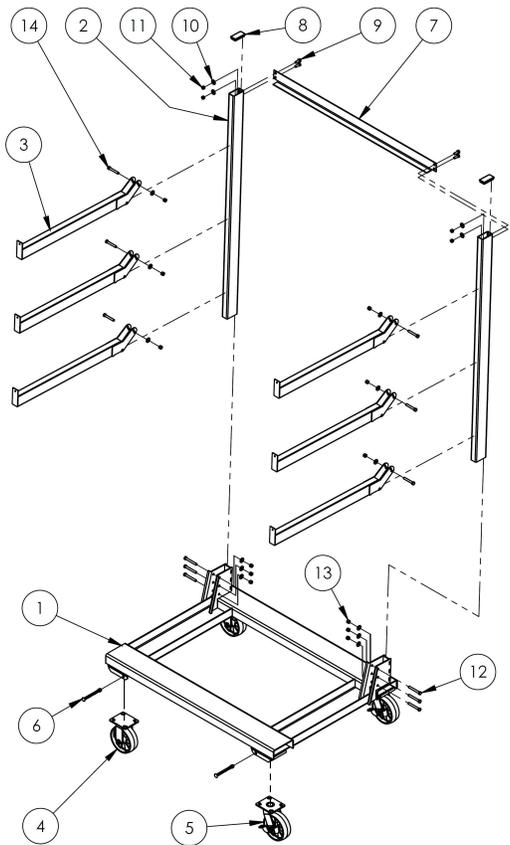
Item	Part no.	Description	Qty.
1	16-514-241	Weldment, base	1
2	16-514-244	Weldment, upright post	2
3	16-514-245	Weldment, 24" arm	6
4	16-132-261	Caster, 6"x2" swivel with brake, glass filled Nylon	2
5	16-132-263	Caster, 6"x2", rigid, glass filled Nylon	2
6	99-612-001	Pin, caster receiver, bolt and nut	4
7	16-014-511	Frame, cross support	1
8	21-024-021	Cap, rectangular glide	2
9	11105	Hex bolt, gr. A, zinc plated, 3/8"-16x1"	4
10	33008	Flat washer, low carbon, USS, zinc plated, 3/8"	16
11	36106	Hex nut, gr. A, zinc plated, 3/8"-16	4
12	11115	Bolt, HHCS, #2 zinc plated, 3/8"-16x3"	6
13	37024	Nylon insert lock nut, gr. 2, zinc finish, 3/8"-16	12
14	11113	Hex bolt, gr. A, plain finish, 3/8"-16x2 1/2"	6

CANT-3060 Exploded Parts Diagram and Bill of Materials



Item	Part no.	Description	Qty.
1	16-514-243	Weldment, base	1
2	16-514-244	Weldment, upright post	2
3	16-514-245	Weldment, 24" arm	6
4	16-132-261	Caster, 6"x2" swivel with brake, glass filled Nylon	2
5	16-132-263	Caster, 6"x2", rigid, glass filled Nylon	2
6	99-612-001	Pin, caster receiver, bolt and nut	4
7	16-014-512	Frame, cross support	1
8	21-024-021	Cap, rectangular glide	2
9	11105	Hex bolt, gr. A, zinc plated, $\frac{3}{8}$ "-16x1"	4
10	33008	Flat washer, low carbon, USS, zinc plated, $\frac{3}{8}$ "	16
11	36106	Hex nut, gr. A, zinc plated, $\frac{3}{8}$ "-16	4
12	11115	Bolt, HHCS, #2 zinc plated, $\frac{3}{8}$ "-16x3"	6
13	37024	Nylon insert lock nut, gr. 2, zinc finish, $\frac{3}{8}$ "-16	12
14	11113	Hex bolt, gr. A, plain finish, $\frac{3}{8}$ "-16x2 $\frac{1}{2}$ "	6

CANT-3648 Exploded Parts Diagram and Bill of Materials



Item	Part no.	Description	Qty.
1	16-514-242	Weldment, base	1
2	16-514-244	Weldment, upright post	2
3	16-514-246	Weldment, 24" arm	6
4	16-132-263	Caster, 6"x2", rigid, glass filled Nylon	2
5	16-132-261	Caster, 6"x2" swivel with brake, glass filled Nylon	2
6	99-612-001	Pin, caster receiver, bolt and nut	4
7	16-014-511	Frame, cross support	1
8	21-024-021	Cap, rectangular glide	2
9	11105	Hex bolt, gr. A, zinc plated, $\frac{3}{8}$ "-16x1"	4
10	33008	Flat washer, low carbon, USS, zinc plated, $\frac{3}{8}$ "	16
11	36106	Hex nut, gr. A, zinc plated, $\frac{3}{8}$ "-16	4
12	11115	Bolt, HHCS, #2 zinc plated, $\frac{3}{8}$ "-16x3"	6
13	37024	Nylon insert lock nut, gr. 2, zinc finish, $\frac{3}{8}$ "-16	12
14	11113	Hex bolt, gr. A, plain finish, $\frac{3}{8}$ "-16x2 $\frac{1}{2}$ "	6

Signal Words:

This manual uses SIGNAL WORDS to call attention to uses of this product that are likely to result in personal injuries or property damage. The signal words used in this manual appear below along with their definitions.



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.



Identifies a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY.



Indicates a hazardous situation which, if not avoided, COULD result in MINOR or MODERATE injury.



Identifies practices likely to result in product/property damage, such as operation that might damage the product or other property.

Hazards of Improper Use:

Study the entire manual before using this cart. A copy of the manual should be available to users at all times. Read the manual to refresh your understanding of the safe operation, inspection or maintenance procedures whenever necessary.



Improper or careless operation might result in serious personal injuries.

- ***Failure to read and understand the entire manual before assembling, loading or servicing the product constitutes misuse.***
- Read the manual to refresh your understanding of proper use, inspection & maintenance procedures as necessary.
- DO NOT exceed the overall (whole rack) uniform capacity of 2,000 lb. or the per-level (arm pair) capacity of 400 lb. Capacity information appears on label 287 (see “Labeling diagram” on p. 7) as well as in the “Specifications” section on p. 2.
- Inspect the rack at least once per month. Do not continue to use it if you discover: 1) warped, deformed, or damaged posts (uprights), arms, cross, brace, or base frame elements; 2) cracked welds; 3) enlargement of bolt holes, etc.; 4) corrosion, severe wear, or other similar condition; 5) damaged, deformed or cracked casters or caster receivers. Immediately tag the rack out of service, unload it, and replace each part that fails to pass inspection. DO NOT use the product until it is restored to normal condition. ONLY use manufacturer-approved replacement parts.
- DO NOT use the product if any unusual noise or movement occurs. Unload the rack and tag it “Out of service”. Notify your supervisor & maintenance personnel about the issue.
- All loads stored on the rack must fit within the dimensions of the rack and arms. DO NOT store any material that extends significantly beyond the edges of the arms.
- ALWAYS evenly distribute and center all loads applied to the rack.
- ONLY use this rack on even, level surfaces.
- ALWAYS immobilize the rack whenever the rack is parked by locking both of the swivel casters.
- Always push the cart rather than pulling it. This keeps both the cart and the load in view while moving them.
- DO NOT use the cart if any label is unreadable, damaged, or missing (see “Labeling diagram” on p. 7). Contact Vestil for replacement labels.
- DO NOT climb, or ride, on the rack.
- DO NOT modify the rack in any way. **Unauthorized modifications automatically void the limited warranty (see p. 8) and might make the rack unsafe to use.**

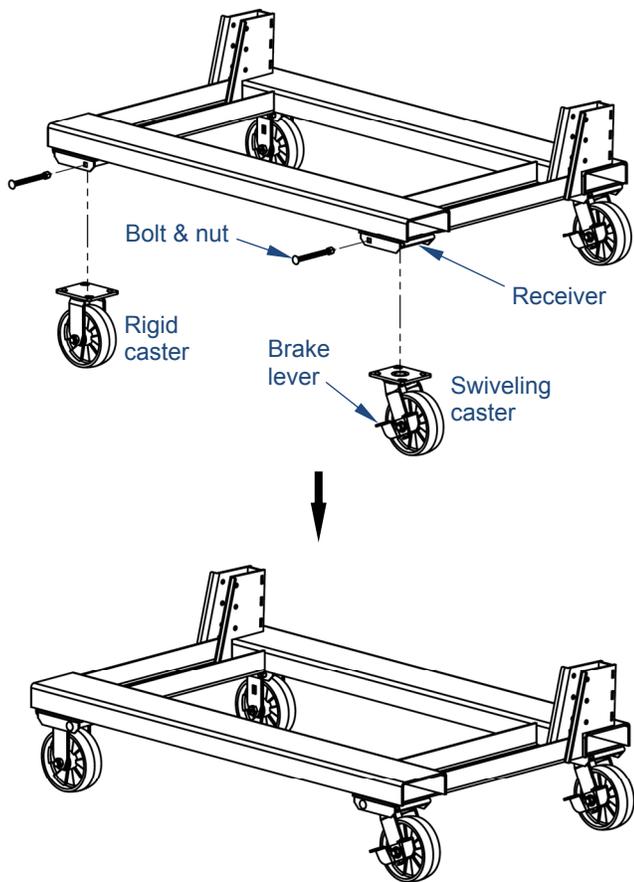


Proper maintenance is essential for this product to function properly and to last as long as possible.

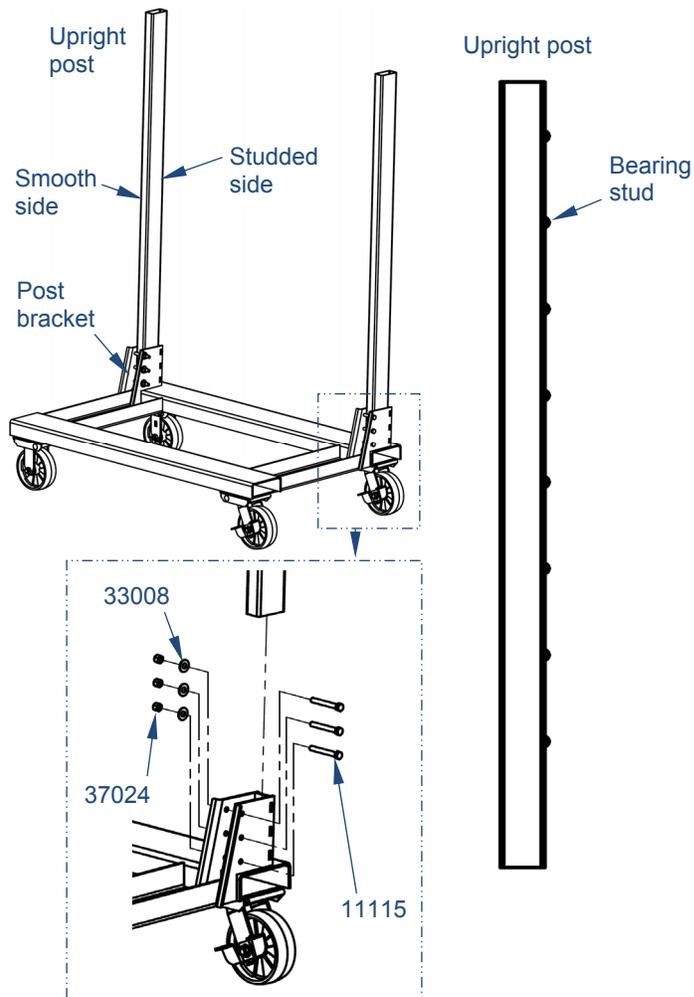
- Always use this product in accordance with the instructions in this manual and consistently with any training undergone regarding storage of materials on racks.
- ONLY install replacement parts supplied or approved by the manufacturer.
- Keep the rack clean & dry.

Assembling the Cart:

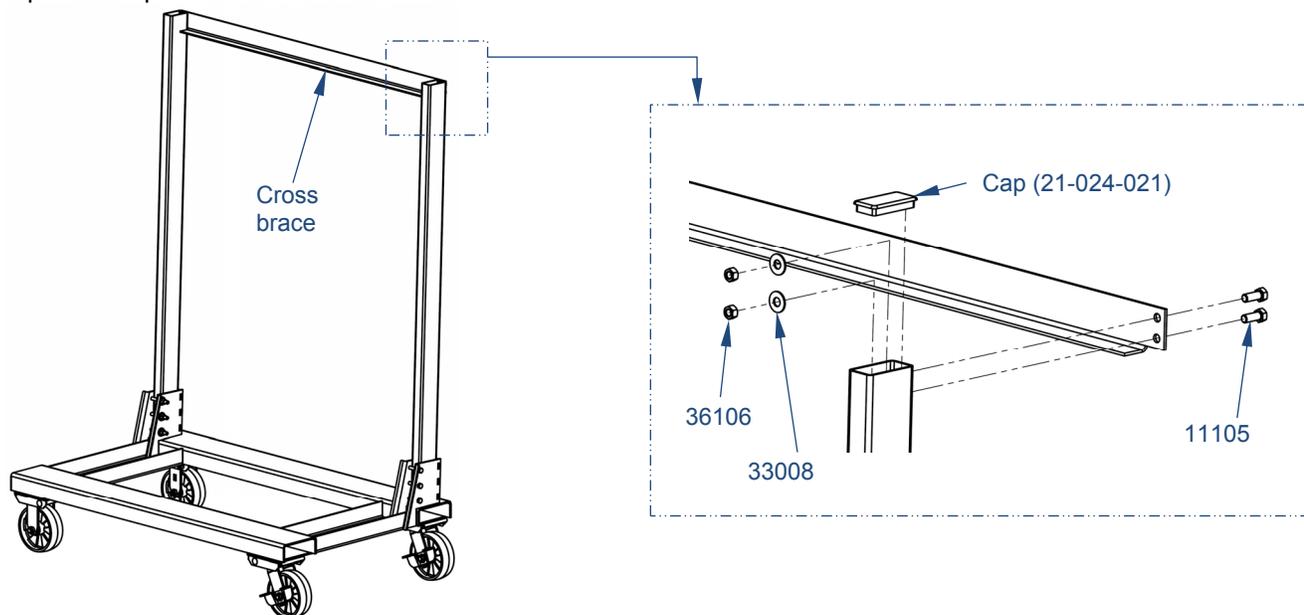
1. Install the casters into the receivers (underside of base frame) in the locations shown in the diagram. Then, insert bolts through the bolt holes in the receivers and secure them with the matching lock nuts. Lock the swiveling casters by pressing down the "ON" side of the brake lever.



2. Attach the upright posts to the post brackets of the base using $\frac{3}{8}$ in. hardware as shown below. Install posts with bearing studs facing outwards.

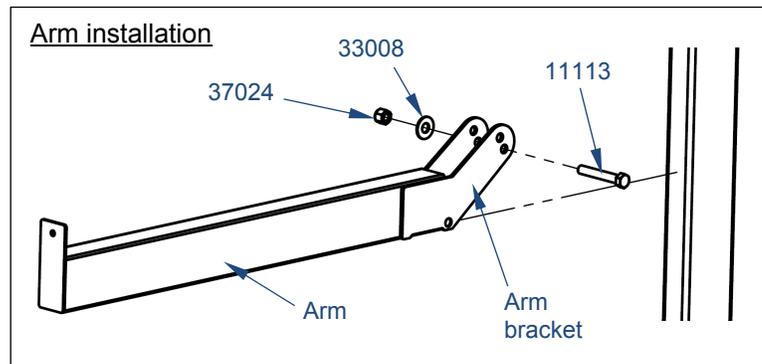
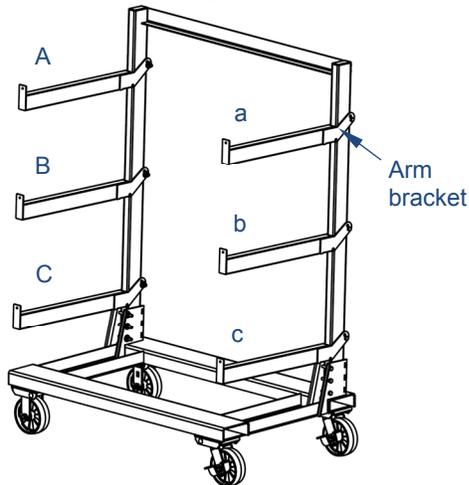


3. Attach the cross brace to the top of both posts. After installing the cross brace, press a cap into the opening at the top of each post.



4. Install the arms by sliding the arm brackets around the posts at the desired levels. Then, install the retaining hardware through the brackets of each arm. Arms are held in place by resting bolts on top of bearing pins. Make sure that pairs of arms are located at the same level (A at same level as a; B with b; and C with c). Space arms evenly along the length of the uprights.

NOTE: There are 2 holes in each arm bracket. The locations of the bolt holes allow the arms to incline at either 2 degrees or 7 degrees above horizontal. Determine the degree of inclination necessary for your application and then install bolts through the appropriate bolt holes. (See "Arm inclination" on p. 3.)



Using the rack:

Always load the rack from the bottom up.

1. Each arm pair (A-a; B-b; C-c in Step 4 above) can support **no more than 400 lb.** Do not apply more than a total of 2,000 pounds to the rack.
2. Center all loads applied to arm pairs.
3. Lock **both** swiveling casters whenever the rack is stationary.

Inspections:

Before using the rack for the first time, create a written record that describes its appearance. Be sure to include observations about hardware used to attach the arms to the uprights, post brackets and hardware (see Step 2 on p. 5), casters and brake operation (swiveling casters), and frame elements (base, posts, cross brace). After applying loads to the arms, record how the arms react. This written record establishes "normal condition". When conducting future inspections compare your observations with the written record to determine whether the cart is in normal condition or requires repairs. If issues are discovered during an inspection, restore the unit to normal condition before returning it to service.

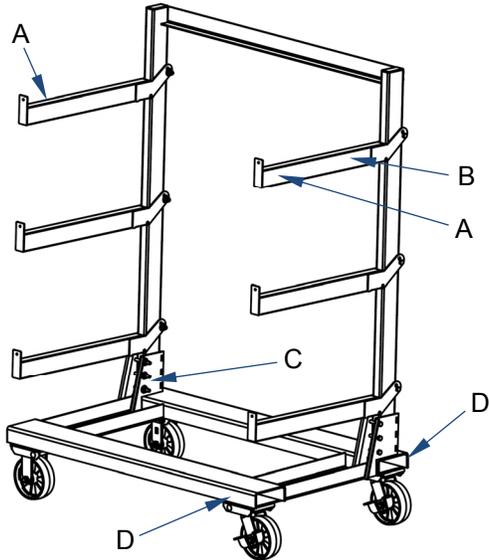
Inspect and maintain the unit as described (below) to preserve normal operability. Remove it from service if it is damaged in any way that affects normal operation. If the unit cannot be restored to normal condition, permanently remove it from service.

At least once per month inspect the following:

1. **Casters and caster receivers:** Inspect the receivers on the underside of the frame. Make sure that each receiver is undamaged and securely holds its caster in place. Verify that the retaining hardware is securely fastened. Casters should not be bent, cracked, or severely worn.
2. **Base Frame:** Examine the base for damage including deformation, corrosion, cracked welds, and severe wear. The deck should be square, rigid, and free of significant rusting. Remove rust with steel wool or a metal bristle brush, clean the areas to remove rust particles, and apply touchup paint to the affected areas.
3. **Posts:** Examine the posts and both post brackets. Confirm that the posts are straight and undamaged. Particularly inspect the areas where arms connect to the posts. Post Brackets should not be distorted (e.g. twisted or warped) and all hardware should be securely tightened.
4. **Arms:** Closely inspect the arms for cracks, cracked welds, bends, etc. Examine the post brackets particularly around bolt holes. Bolt holes should not be elongated or cracked. Verify that all hardware is in normal condition.
5. **Labels:** confirm that all labels are in good condition and in place as shown in the "Labeling Diagram" (p. 7).

Labeling Diagram:

The unit should be labeled as shown in the diagram. Replace all labels that are missing, damaged, or not easily readable (e.g. faded).



A: Label 737 (facing outward)

⚠ WARNING	⚠ AVISO	Model/Modelo/Modèle CANT
Improper loading constitutes misuse and might result in serious personal injuries.	La carga impropia constituye maltrato y puede que tenga como resultado heridas personales graves.	Maximum Capacity / Capacidad Máxima 2,000 LBS./ 907 KG.
<ul style="list-style-type: none"> Racks must be placed in corresponding holes. Load bottom of unit first, then move to the next level. Load bottom-up. 	<ul style="list-style-type: none"> Los anaqueles deben ser colocados en correspondientes huecos. Cargue fondo de la unidad primero, entonces mover al próximo nivel. Cargue empezando a abajo para arriba. 	Rack (pair) Capacity / Capacidad por Tablilla 400 LBS. / 181 KG.
		UNIFORMLY DISTRIBUTED UNIFORMEMENTE DISTRIBUIDO 737

B: Label 608 (facing outward)

⚠ WARNING	⚠ ADVERTENCIA
DO NOT load beyond rated capacity PLACE heavier items on bottom shelf if applicable DISTRIBUTE load evenly. DO NOT sit or ride on cart SECURE stable load before moving	No cargue MAS de la capacidad tasada Ponga los objetos mas pesados en la estanteria de abajo DISTRIBUYA LA CARGA A NIVEL. NO SE SIENTE o vaya en el carro ASEGURE la carga antes de mover
	608 rev 0911

C: Label 287 (covered with label 770)

MODEL/MODÉLO/MODÈLE _____
STATIC CAPACITY (evenly distributed) _____ lbs.
LA CAPACIDAD CONSTANTE (distribuida uniformemente) _____ kgs.
CAPACITÉ STATIQUE (distribuée régulièrement) _____ kgs.
SERIAL/SERIE/SÉRIE _____
287 REV 0812

D: Label 212

⚠ WARNING	⚠ ADVERTENCIA	⚠ AVERTISSEMENT
LOCK CASTER and/or FLOOR LOCK when loading and unloading	La RUEDECILLA de la CERRADURA y/o el PISO CIERRAN al cargar y descargar	LOCK CASTER et/ou SOL LOCK lors du chargement et de déchargement
212 Rev 0111		

LIMITED WARRANTY:

Vestil Manufacturing Corporation ("Vestil") warrants 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 if the part is 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.

What is an "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 any of the following methods:

<u>Mail</u>	<u>Fax</u>	<u>Email</u>
Vestil Manufacturing Corporation 2999 North Wayne Street, PO Box 507 Angola, IN 46703	(260) 665-1339 <u>Phone</u> (260) 665-7586	sales@vestil.com

In the written request, list the parts believed to be defective and include the address where replacements should be delivered.

What is covered under the warranty?

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 may require you to send the entire product, or just the defective part or parts, to its facility in Angola, IN. The warranty covers defects in the following original dynamic components: motors, hydraulic pumps, electronic controllers, switches 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 30 days. For wearing parts, the warranty period is 30 days. The warranty periods begin on the date when 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 the warranty periods 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?

1. Labor;
2. Freight;
3. Occurrence of any of the following, which automatically voids the warranty:
 - Product misuse;
 - Negligent operation or repair;
 - Corrosion or use in corrosive conditions;
 - Inadequate or improper maintenance;
 - Damage sustained during shipping;
 - Accidents involving the product;
 - Unauthorized modifications: DO NOT modify the product IN ANY WAY without first receiving written authorization from Vestil. Modification(s) might make the product unsafe to use or might cause excessive and/or abnormal wear.

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.

