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1415 Davis Rd Elgin, IL 60123

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materialhandling.com | (855) 719-1415 | sales@materialhandling.com

PRRJ-10-D Hydraulic Pallet Rack Lifting Dolly



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 http://www.vestil.com/parts_info.htm.

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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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 signal words used appear below along with the meaning of each word.

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 crane.

SAFETY INSTRUCTIONS

The most effective way to avoid injury is to exercise sound judgment when assembling, using, inspecting, and maintaining this product. **Keep a copy of this manual in a location known, and accessible, to all persons who use this dolly.**

WARNING

Improper or careless operation could result in serious injury or death.

- Read and understand the entire manual before assembling, installing, using or servicing the product. Read the manual to refresh your understanding of proper use and maintenance procedures.

- ONLY qualified persons should perform maintenance on this dolly.

- DO NOT modify the product in any way without first obtaining written approval from the manufacturer. Unapproved modifications automatically void the [LIMITED WARRANTY](#) on p. 9, and might make the product unsafe to use.

- Only use pallet rack dollies to move fully assembled pallet racks. Follow all instructions provided in the [USING THE RACK DOLLY](#) section of this manual. See p. 5-6. This device is NOT designed for standalone use as a 2-wheeled dolly. ONLY use the jack (PRRJ-10-D) in conjunction with 2 dollies/skates (PRRJ-DOL) to move 4-post storage racks.

- DO NOT attempt to move a rack if it cannot be stably supported by the jack and/or skates. The rack must not lean, wobble, or shift while supported or during movement.

- DO NOT contact overhead obstacles (e.g., electric wires, pipes, or sprinklers) with any part of the rack, lifting jack, or skates. Examine the entire travel path from floor to ceiling BEFORE using the jack and skates to move the rack.

- ONLY use the jack and skates to move the rack across smooth, even, level surfaces. DO NOT use on inclines, uneven floors, or in areas with debris, cracks, or hazards.

- ONLY move 1 section of rack at a time. Disconnect sections fastened together and move them independently.

- To propel the rack, at least 1 person should press on BOTH posts and push the rack from the end supported by skates. Another person should steer BUT NOT PUSH or PULL the rack using the jack handle. Communicate clearly with all team members during movement.

- Wrap the nylon safety strap around BOTH posts; then tighten using the ratchet. Ensure the strap is secure before moving.

- Unload the rack completely BEFORE engaging it with the jack and skates. NEVER move loaded racks.

- DO NOT exceed the capacity: 750 pounds (227 kg). Capacity information is provided in on-product labeling. See Label 1153 in the [LABELING DIAGRAM](#) on p. 8.

- Inspect the product according to the instructions in [INSPECTING & MAINTAINING THE DOLLY](#) on p. 6-7. DO NOT use the product unless it is in [SATISFACTORY CONDITION](#).

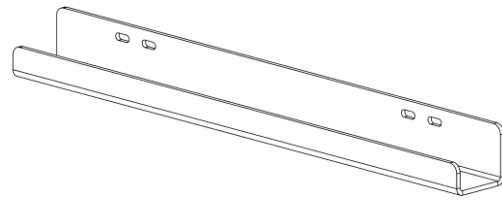
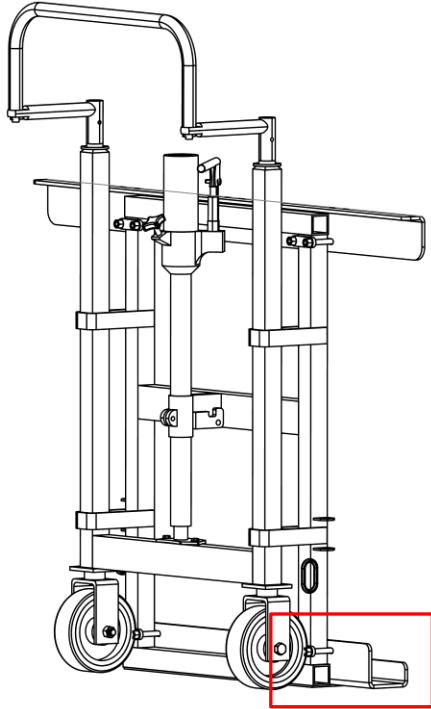
- DO NOT use this device UNLESS all product labels are in place, easily readable, and undamaged. See [LABELING DIAGRAM](#) on p. 8.

- Wear appropriate personal protective equipment (PPE), such as steel-toed boots, gloves, hard hats, and safety glasses, during operation.

- In case of tipping or instability, immediately stop movement, lower the rack if possible, and evacuate the area. Do not attempt to stabilize by hand.

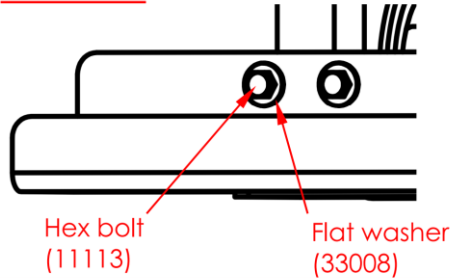
ASSEMBLING THE RACK DOLLY

- I. Attach the **Brace Receiver** to the frame with 3/8" washers (33008), 3/8"-16 x 2" hex bolts (1113), mounting brackets (16-016-206), and 3/8"-16 lock nuts (37024) as shown in the diagram.



Brace Receiver (16-014-420)

FRONT VIEW



Hex bolt
(1113)

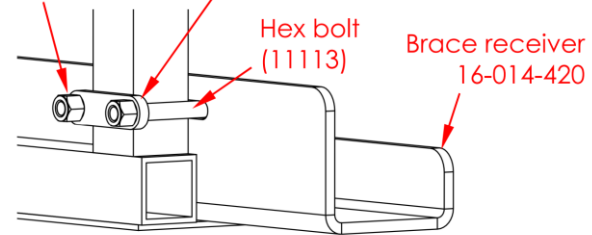
Flat washer
(33008)

Lock nut
(37024)

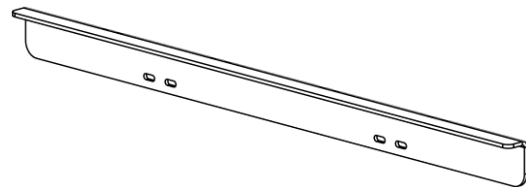
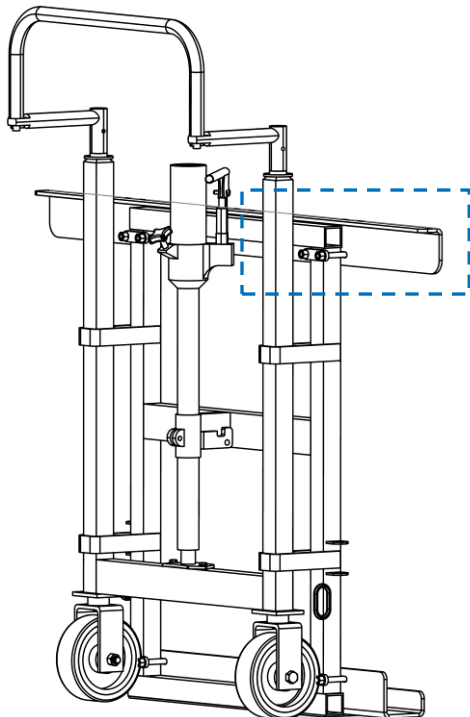
Mounting bracket
(16-016-206)

Hex bolt
(1113)

Brace receiver
16-014-420

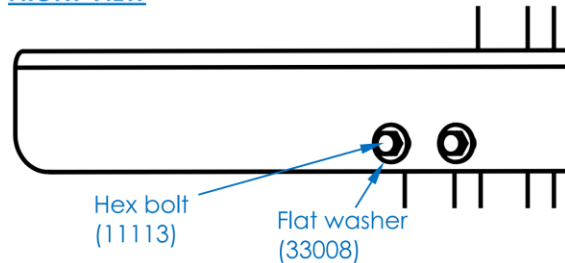


- II. Attach the **Rack Stabilizer** to the frame with 3/8"-16 x 2" hex bolts (1113), mounting brackets (16-016-206), and 3/8"-16 lock nuts (37024) as shown in the diagram.



Rack Stabilizer (16-014-419)

FRONT VIEW



Hex bolt
(1113)

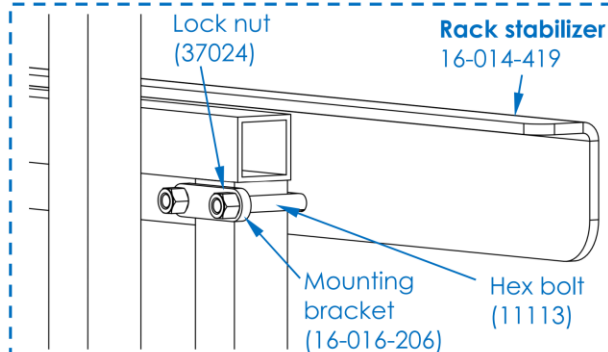
Flat washer
(33008)

Lock nut
(37024)

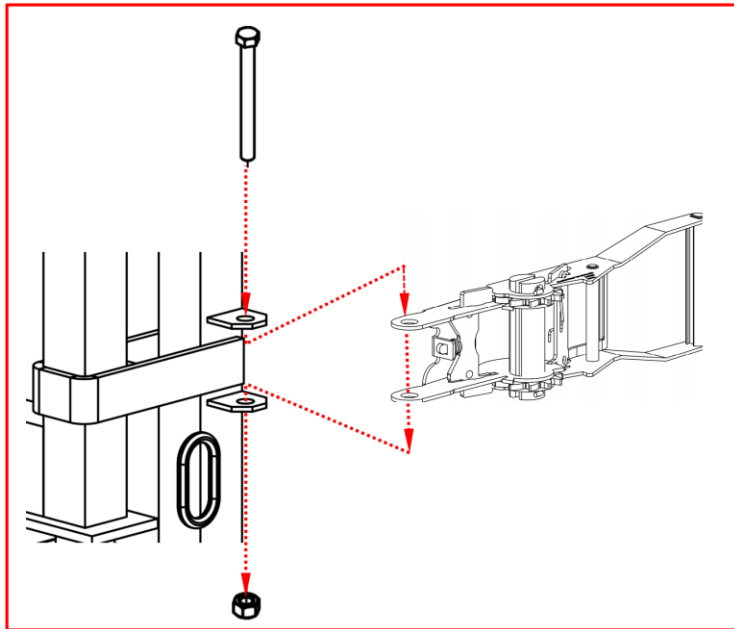
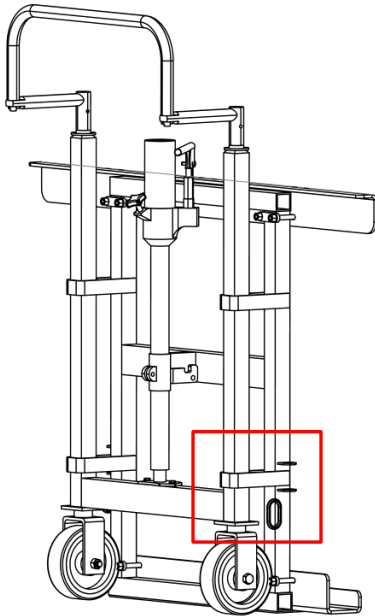
Rack stabilizer
16-014-419

Mounting
bracket
(16-016-206)

Hex bolt
(1113)

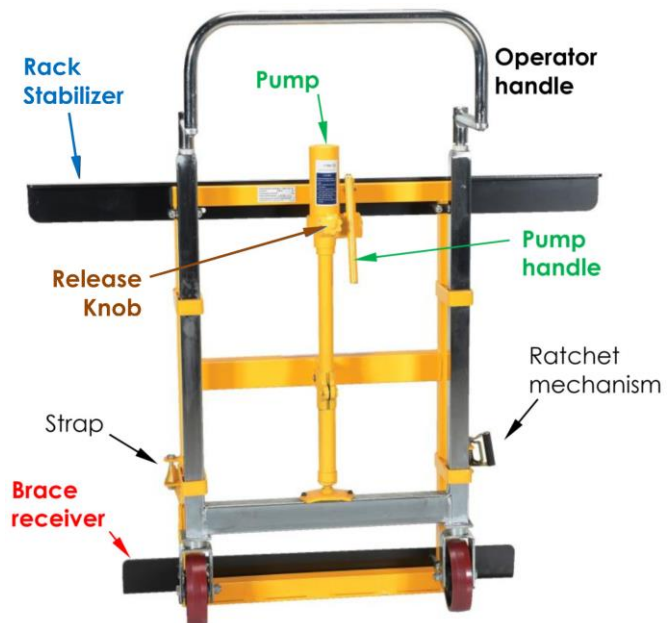


- III. Attach the ratchet mechanism to the ratchet brackets with a 3/8"-16x4" hex head bolt (11119) and 3/8"-16 lock nut (37024). Align bolt holes in the mounting brackets with bolt holes in the ratchet base (ratchet base fits between the mounting brackets), insert the bolt through the holes and secure the connection with a lock nut.



PREPARING TO USE THE RACK LIFTING DOLLY

- I. Rack requirements. PRRJ-10-D series dollies are intended to transport assembled pallet racks. To be transportable, your rack must satisfy these requirements:
 - a. Rack is unloaded. *It is imperative that all items be removed from the rack before using a PRRJ-10-D to move it.*
 - b. Rack includes cross braces between end posts and that some braces are close to floor level. However, cross braces must be at least 2 inches above floor level to allow the front lip of the **brace receiver** to fit underneath them.
 - c. The width dimension of cross braces is no greater than 3 inches so that braces fit inside the brace receiver.
 - d. The distance between rack end posts is no more than ~42". The Rack Stabilizer is 46" long. It should overlap both rack posts
 - e. Rack is solidly assembled with all necessary rack braces securely fastened to adjacent rack uprights. The rack must maintain shape while it is transported, i.e. not be able to bend, flex, twist, etc.
- II. Floor condition requirements:
 - a. Floor surface must be smooth and clean (free of debris)
 - b. Ground surface must be level and even (not cracked, broken, etc.).
- III. Recommended number of people required to safely move racking:
 - a. Most stable: Someone at each corner. This is the recommended level of participation.
 - b. Minimum: 2 participants, with 1 at each end of the rack.



USING THE RACK DOLLY

1. Move the dolly to one end of the rack. Ensure the **Brace Receiver** is fully lowered by turning the **Release Knob** counterclockwise. See diagram on p. 4. Once lowered, close the valve by turning clockwise until tight.
2. Slide the Receiver under the cross brace of the rack. Center it on the brace and confirm the rack posts are stable.
3. Raise the Receiver by moving the **Pump Handle** up and down. Do not raise the rack any higher than necessary.
4. The dolly can be used with model PRRJ-DOL rack skates. If using skates (recommended), elevate the rack end sufficiently to slide one skate under each elevated foot
5. Carefully lower the rack feet onto the skates by slowly turning the **release knob** counterclockwise. **NOTE:** The rack lowers more rapidly the further the knob is turned counterclockwise, so only turn the knob until the rack begins to slowly lower.
6. Once the feet are solidly supported by the skates, fully lower the **Receiver** and back the dolly away from the rack. Move the dolly to the opposite end of the rack.

7. Repeat steps 2 through 5 to elevate the rack and place skates under those feet.

8. Repeat steps 4 and 5 to lower the rack feet onto skates.

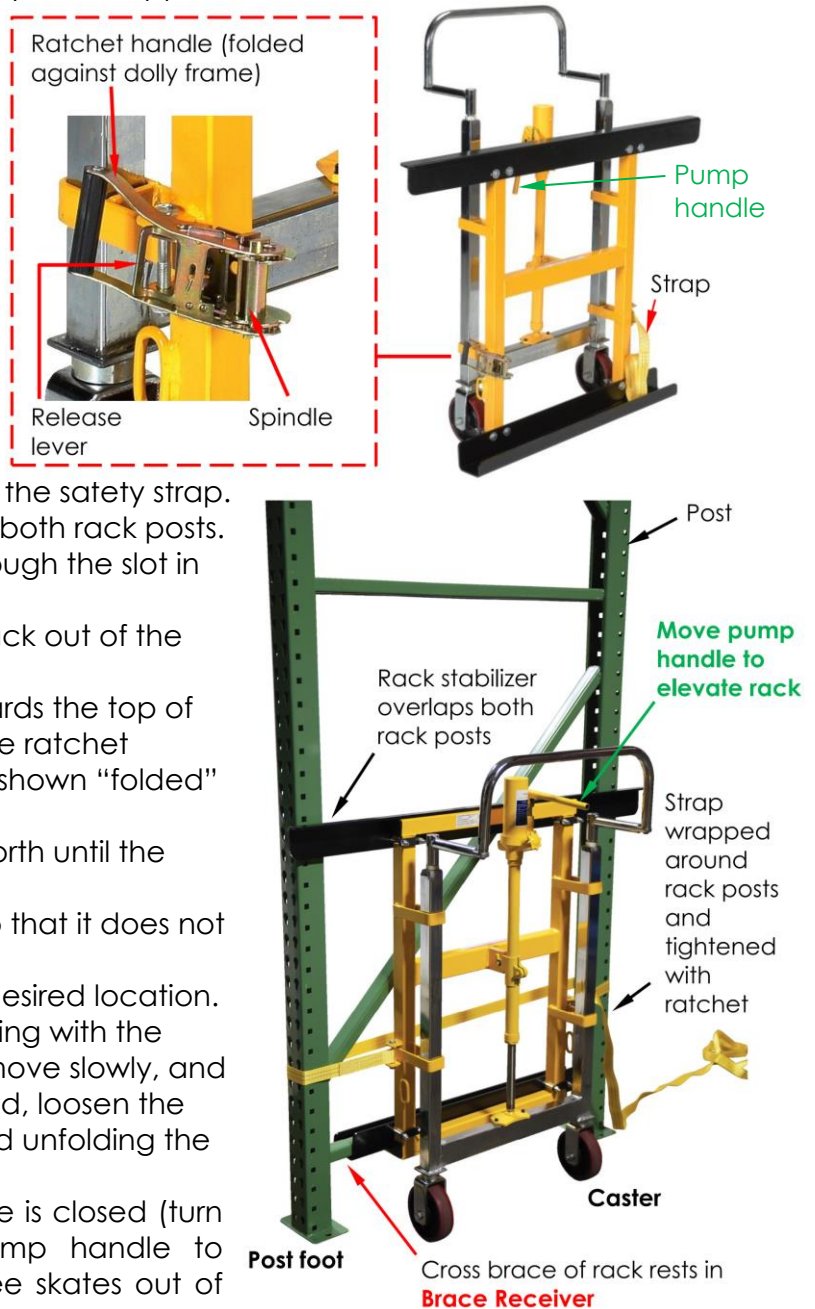
9. Once skates are in place under both ends, reposition the dolly at one end of the rack (the steering end). Slide the Receiver under the cross brace, center it, and raise slightly to engage without lifting the rack off the skates. This allows the dolly to act as a steering mechanism.

10. Secure the rack to the dolly with the safety strap.

- a. Wrap the safety strap around both rack posts.
- b. Insert the end of the strap through the slot in the spindle.
- c. Pull most, but not all, of the slack out of the strap.
- d. Pull the release lever up (towards the top of the ratchet handle); unfold the ratchet handle. The ratchet handle is shown "folded" in the diagram.
- e. Move the handle back-and-forth until the strap is taut.
- f. Secure the end of the strap so that it does not pose a tripping hazard.

11. Carefully move the rack to the desired location. Push from the non-dolly end while steering with the dolly handle. Ensure the path is clear, move slowly, and stop if instability occurs. Once positioned, loosen the strap by pulling the release lever up and unfolding the handle. Remove the strap and stow it.

12. Make sure that the release valve is closed (turn the knob clockwise). Move the pump handle to elevate the rack slightly. Move the free skates out of the way.



13. Slowly lower the rack to the ground by turning the knob counterclockwise until descent begins. Once feet are solidly on the ground, fully lower the Receiver and back the dolly away from the rack.

14. Move the dolly to the opposite end of the rack. Repeat steps 12 and 13 to remove the remaining skates.

15. Anchor all feet of the rack to the ground with appropriate hardware.

EMERGENCY PROCEDURES

- **If Rack Becomes Unstable or Tips:** Stop movement immediately. If safe, slowly lower the rack using the release knob. Evacuate the area and do not attempt to correct by hand. Inspect for damage before reuse.
- **Hydraulic Failure:** If the cylinder does not raise/lower smoothly, stop use. Release pressure slowly and contact Technical Service.
- **Strap or Ratchet Failure:** Do not move the rack. Secure manually if possible and replace damaged components.
- **Injury or Incident:** Follow workplace first-aid protocols and report to supervisors. Document the event for future inspections.

RECORD OF SATISFACTORY CONDITION (THE “RECORD”)

Make a detailed record of the condition of the dolly before it is put into service. Examine and record the condition of all features: casters, welds, frame elements, fasteners (bolts, nuts, washers, etc.), hydraulic cylinder and pump. Photograph (or video) the unit from multiple angles so that all features are clearly imaged including all labels applied to the product. The location of each label should also be apparent. Use the pump to elevate the **brace receiver**. Record the movement of the pump cylinder and the brace receiver. Describe the effort required to use the pump. Twist the release knob. Record the process, indicating how far the knob must be turned (counterclockwise) until the Receiver begins to descend. Collect all photographs, videos, and writings and keep them together. This collection of recordings establishes a *RECORD* of the product in satisfactory condition. Compare the results of each inspection to this *RECORD* to determine if the unit is in satisfactory condition. Do not use a dolly unless it is in satisfactory condition

INSPECTING AND MAINTAINING THE DOLLY

NOTICE

Proper use, maintenance, and storage are essential for this product to function properly.

- Always use this product in accordance with the instructions in this manual and consistent with any training relevant to machines, devices, etc. used in conjunction with this product.
- Keep the product clean & dry. Lubricate moving parts.
- Store the dolly in a dry, indoor location away from corrosive materials or extreme temperatures.

Compare inspection results to the **RECORD**. Do not continue to use the product unless every component is in **SATISFACTORY CONDITION**. Cosmetic changes, like damaged paint/powder coat do not constitute changes from satisfactory condition. However, touchup paint should be applied to all affected areas as soon as damage occurs. Contact **TECHNICAL SERVICE** to order replacement parts. Contact information is provided on the cover page of this manual.

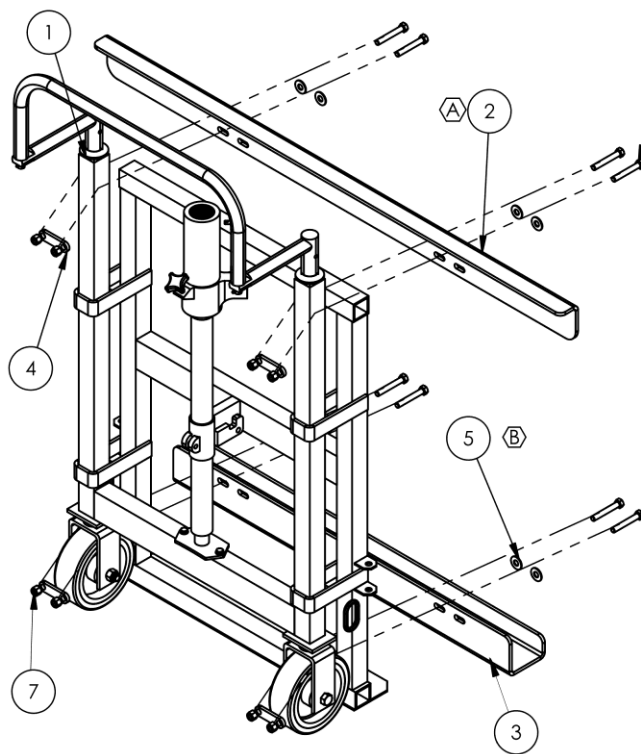
Inspect the following at least once per month:

1. Surfaces – Check all surfaces of the dolly for dirt or other matter, e.g. oil or grease. Clean and dry the surfaces.

2. Casters – Check each caster for significant wear, cracks, bends, and other forms of damage. Clean the casters. Remove debris from the ground contacting surfaces of the wheels. Confirm that the casters roll smoothly, without wobbling, skidding, or shaking.
3. Hardware, fasteners – Examine hardware & fasteners (bolts, nuts, washers). Replace hardware that is damaged, worn, missing, etc.
4. Brace receiver, rack stabilizer, and other frame elements – Examine all parts for wear, breaks, corrosion/rust, metal fatigue, and other forms of damage (e.g. impact damage).
5. Hydraulic pump (pump body, cylinder, pump handle, release knob – Closely inspect all parts for damage. Tighten the release knob and pump the handle to fully extend the cylinder. Confirm that the cylinder extends smoothly. The yellow supporting frame should also elevate smoothly (without binding). Examine the cylinder for bends, cracks, and other forms of damage. Turn the knob clockwise to lower the cylinder. Confirm smooth, even retraction.
6. Ratchet and ratchet strap - Confirm satisfactory operation and condition. Replace damaged straps and ratchets.
7. Labels– Replace labels that are damaged or not easily readable from a reasonable distance.
8. Overall structure – Examine the whole structure for rusting or metal erosion, rot, thinned regions. In particular, examine pivot points, and ground-contacting elements. If rusting is purely superficial, remove the rust/corrosion. Clean the affected area and apply touchup paint. If rusting, rot, or thinning has weakened the material, contact [TECHNICAL SERVICE](#) for advice.

EXPLODED VIEW AND BILL OF MATERIALS

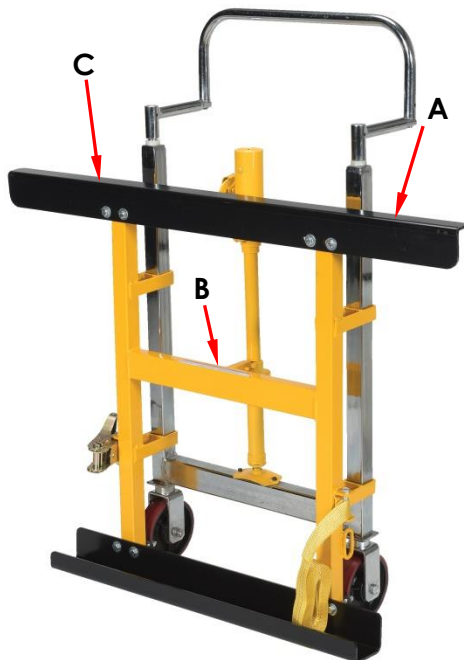
16-006-270



ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	16-001-388	FINAL ASS'Y W/O SHIPPING	1
2	16-014-419	FRAME,UPPER,FORMED	1
3	16-014-420	FRAME, LOWER,FORMED	1
4	16-016-206	BRACKET,MOUNTING BRACKET	4
5	33008	FLAT WASHER, LOW CARBON, USS, ZINC PLATED, 3/8"	8
6	11113	HEX BOLT, GRADE A, PLAIN FINISH, 3/8"-16 X 2-1/2"	8
7	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	8

LABELING DIAGRAM

Label content and location are subject to change, and therefore, your product might not be labeled exactly as shown in the diagram below. If the labels applied to your unit differ from those shown in the diagram, contact [TECHNICAL SERVICE](#) and report the inconsistency. Thoroughly photograph the unit when you first receive it as discussed in the [RECORD OF SATISFACTORY CONDITION](#) section on p. 6. Make sure that your *RECORD* includes at least 1 photograph of each label. Replace all labels that are, or later become, damaged, missing, or not easily readable (e.g. faded). To order replacement labels, contact the *Technical Service & Parts Department* online at <https://www.vestil.com/page-parts-request.php> or by calling (260) 665-7586 and asking the operator to connect you to the [Parts Department](#).



A: Label 658 on top of rack stabilizer

⚠ WARNING	⚠ ADVERTENCIA	⚠ AVERTISSEMENT
Do not operate or move with unstable loads DO NOT LOAD beyond rated capacity DISTRIBUTE LOAD EVENLY DO NOT sit or ride	No use a mueva con cargas inestables No cargue mas de la capacidad tasada DISTRIBUYA LA CARGA A NIVEL NO SE SIENTE o vaya en el carro	Ne pas utiliser avec une charge instable NE PAS CHARGER au-delà du débit nominale DISTRIBUER la charge régulièrement NE PAS VOUS ASSEoir OU VOUS PROMENER sur le chariot

658
rev. 0905

B: Label 1153 on top of yellow cross bar

MODEL / MODÉLO / MODÈLE	_____
WEIGHT / PESO / MASS	_____
CAPACITY / CAPACIDAD / CAPACITÉ	_____
SERIAL / SERIE / SÉRIE	_____
UNITS: 2.2 lb. = 1kg 1" (or 1in.) = 2.54cm	1153

C: Label 806 on top of rack stabilizer

⚠ WARNING	⚠ ADVERTENCIAS
Material handling is inherently dangerous. To reduce the likelihood that users or bystanders will sustain serious personal injuries. - This device is NOT designed for use as a hand truck. 2 wheelers only. ONLY use jack (PNU) 10.0 in connection with 2 dollies (PNU) 10.0 to move 4 post storage racks. - DO NOT attempt to move rack if it cannot be safely supported by jack and/or dollies. Rack must not lean, wobble, etc. while supported. - DO NOT contact overhead obstacles (e.g. shelving units) with any part of rack, rack lifting jack, or dolly. Examine travel path from floor to ceiling BEFORE using jack and dollies to move rack. - ONLY use jack and dollies to move rack across smooth, even, level surfaces. - ONLY move 1 section of rack at a time. Disconnect sections below together, then move each section independently. - To propel rack, at least 1 person should press on BOTH posts and push rack from end supported by dollies. Another person should steer BUT NOT PUSH or PULL rack using jack handle. - When racking stop around BOTH posts, then tighten stop using jack handle. - Unload rack completely BEFORE engaging it with jack and dollies.	La manipulación de materiales es inherentemente peligrosa. Para reducir la posibilidad de que usuarios o espectadores puedan sufrir daños personales serios. - Este dispositivo NO está diseñado para ser usado como carro de 2 ruedas. SOLO use el gato (PNU) 10.0 en conjunto con 2 carrillos (PNU) 10.0 para mover el estante de almacenamiento de 4 postes. - NO intente mover el estante si no está seguramente soportado por el gato y los carrillos. El estante no se debe volcar, tambalear etc. mientras está soportado. - No entre en contacto con obstáculos (e.g. estanterías adyacentes) con ninguna parte del estante, gato elevador del estante o los carrillos. Examine el trazo de viaje desde el suelo hasta el techo ANTES de usar el gato o los carrillos para mover el estante. - SOLO use el gato o los carrillos para mover el estante sobre superficies lisas, planas y a nivel. - SOLO mueva 1 sección del estante a la vez. Desconecte las secciones que están soportadas juntas, entonces mueva cada sección independientemente. - Para impulsar el estante, como mínimo una persona debe apretar AMBOS postes y empujar el estante en los carrillos que lo soportan. Otra persona debe dirigir PERO NO EMPUJAR o ESTIRAR el estante usando la manija del gato. - Desconecte con cuidado de repón alrededor de AMBOS postes, entonces apriete la correa cuando el estante está en posición. - Descargue el estante completamente ANTES de ponerlo con el gato y los carrillos.



LIMITED WARRANTY

Vestil Manufacturing Company ("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
Vestil Manufacturing Company
2999 North Wayne Street, PO Box 507
Angola, IN 46703

Fax
(260) 665-1339
Phone
(260) 665-7586

Email
info@vestil.com
Enter "Warranty service request"
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 90 days. 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) are 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 Co. 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 in material or workmanship.