Vestil Manufacturing Corporation

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Loading Dock Solutions

Revised 0118

A company dedicated to solving loading dock and material handling problems since 1955.

OWNER'S MANUAL

EDGE-O-DOCK • MODEL FM / PP / PE

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WARNINGS & SAFETY INSTRUCTIONS

Read owner's manual completely before operating unit!

- Read and understand the owner's manual before using or servicing the leveler.
- The lip plate should be secured outward before any work is preformed on the leveler.
- Ensure that the safety and warning labels stay in place and are legible. See the labels page in this manual.
- The Edge-O-Dock leveler must be securely welded and anchored to the dock face. See the installation instructions.
- Do not use the leveler if any damage or unusual noise is observed
- Always watch the leveler carefully when it is in operation.
- Be sure nothing is on the top of the leveler before operating it.
- Do not perform any modifications to the leveler without the manufacturer's approval. Failure to receive authorization for changes to the equipment could void the warranty.
- Maintenance and repairs are to be performed only by personnel qualified to perform the required work.
- Do not use brake fluid or jack oils in the hydraulic system. If oil is needed, use an antiwear hydraulic fluid with an SUS viscosity of 150 - 200 at 100°F, (SAE viscosity grade 32), or Dexron transmission fluid.
- Use only replacement parts either supplied or approved by the manufacturer.

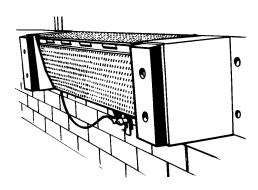
RECEIVING INSTRUCTIONS

Every unit is thoroughly tested and inspected prior to shipment. However, it is possible that the unit may incur damage during transit. If you see damage when unloading, make a note of it on the BILL OF LADING.

Remove all packing and strapping material, inspect for damage. IF DAMAGE IS EVIDENT, FILE A CLAIM WITH THE CARRIER IMMEDIATELY! Also, check the unit size, type of power unit, etc., to see that the unit is correct for the intended application.

MODEL NUMBER AND CAPACITIES

The model number, serial number and capacities are inscribed on the nameplate. Please remember to include these numbers in any correspondence with your dealer or the factory.



EDGE-O-DOCK FM / PP / PE SERIES

LOADING INSTRUCTIONS

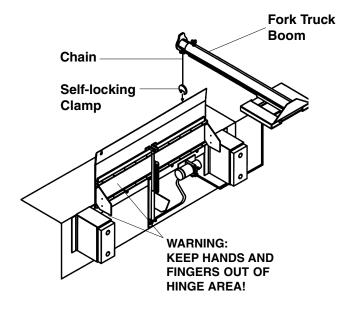
The load capacity rating as inscribed on the nameplate of your unit designates its net capacity. This capacity must never be exceeded, as permanent damage or personel injury may result.

UNPACKING AND HANDLING INSTRUCTIONS

CAUTION

- Read instructions completely before adjusting.
- Follow instructions carefully.
- Use end wrench, not crescent wrench, as crescent may slip.
- Recommended unpacking and handling is shown below.

Recommended dock height is 50". Service range is +5" to -5".



OPERATING INSTRUCTIONS

- I.) Back trailer slowly against Edge-O-Dock bumpers.

 Turn off the engine and set the emergency brake on truck. Position wheel chocks (by others) per OSHA requirements to prevent trailer movement.
- II.) Follow the instructions below according to the model of Edge-O-Dock you have.

Mechanical Operation • Series FM

- 1.) Remove the lever from right side of bumper box and insert it into the socket of the back plate (the socket is on right hand side).
- 2.) Pull the handle back until the leveler plate is fully extended and leaning back towards the ramp.
- Push the handle forward to allow the lip
 plate to extend and fall on the bed of the trailer.
 Do not operate without a truck in place as the operator
 may lose balance.
- 4.) Remove the lever and place it in the bumper box.
- When loading and unloading is complete, remove chocks and allow trailer to pull away. The Edge-O-Dock will return to its original position.

Hand Pump Operation • Series PP

- 1.) Rotate the valve on the pump clockwise to close the fluid return valve. Raise the dockleveler with the hand pump. When the dockleveler clears the trailer bed and fully extends, open the return valve to allow the lip to settle on the trailer bed. Be sure to leave the fluid return valve open to allow the dockleveler to float with the trailer.
- 2.) When loading/unloading is complete, remove the chocks and allow the trailer to pull away. The Edge-O-Dock will return to its original position.

Electric Operation • Series PE

- Push "RAISE" button on control box. The dockleveler will begin to rise. When the dockleveler lip reaches full extension, release the button. It will lower and settle on the trailer bed.
- 2.) When loading/unloading is complete, remove the chocks and allow the trailer to pull away. The Edge-O-Dock will return to its original position.

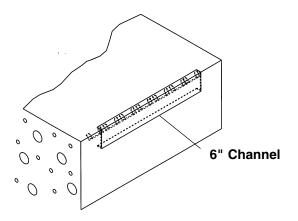
Ordering Replacement or Extra Parts

Our company takes pride in using the finest available parts for our equipment. We are not responsible for equipment failure resulting from the use of unapproved replacement parts. To order replacement or extra parts for your equipment contact Customer Service at the factory. In any correspondence with the factory please include the Serial Number which is inscribed on the nameplate of the piece of equipment. Use only the part numbers provided in this Owner's Manual. Please indicate the motor phase and voltage that the equipment is operating on.

INSTALLATION INSTRUCTIONS (READ ALL INSTRUCTIONS BEFORE PROCEEDING!)

Dock Edge Construction

The procedure for the installation of the Edge-O-Dock dockleveler varies with the dock edge construction and the height differential. The recommended dock edge for installing an Edge-O-Dock unit is a well anchored six inch channel. With a six inch channel embedded in to the dock edge, the installer can weld the ramp and bumper blocks securely into position. The ramp and blocks cannot be welded into position if the dock edge steel is less than six inches. For installations with less than six inches of steel edging a combination of anchor bolts and welding is required. If the dock has no steel edging, a steel plate must be anchored to the floor to provide a surface to weld the ramp to in order to maintain the capacity of the leveler. **Failure to follow the proper installation procedure will decrease capacity of dockleveler.**

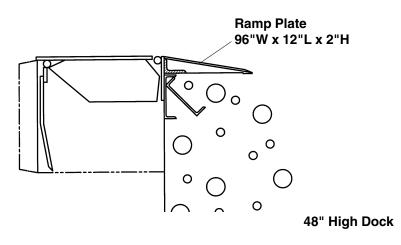


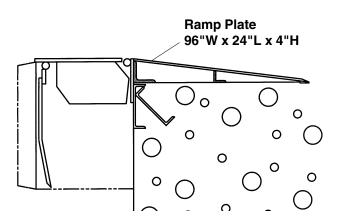
Recommended dock edge for new construction

The recommended dock edge for new construction is a well anchored 6 inch channel (8.2 lb. minimum). Concrete "J" anchors shall be 1½ inches wide with a length of 6 inches plus 1½ inches bent at 90 degrees on the end. Minimum material thickness shall be ¼ inch. One anchor shall be installed every 12 inches.

Height Differential

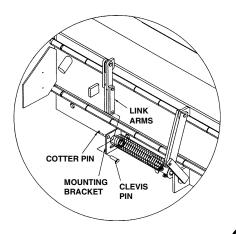
The optimum dock height in most cases is 50". On dock heights significantly different than 50", ramps and ramp support angles as shown below must be employed.





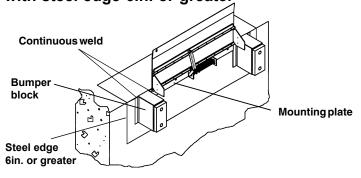
Linkage Installation Instructions FOR MECHANICAL EDGE-O-DOCK

- 1.) Remove the cotter pin from the clevis pin.
- 2.) Remove the clevis pin from the linkage arms.
- 3.) Move the lip plate down until the hole in the mounting bracket is aligned with the holes in the link arms.
- 4.) Insert the clevis pin through the aligned holes and fasten with the cotter pin.



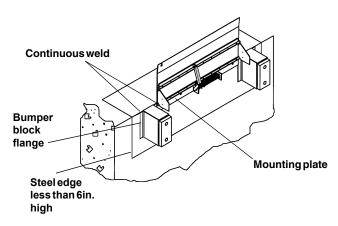
INSTALLATION OF EDGE-O-DOCK • FM SERIES

Installation procedure for loading dock with steel edge 6in. or greater



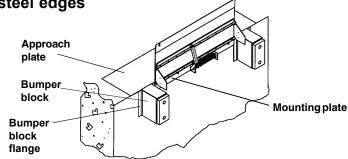
- 1. Remove all material and protrusions from the face of the dock.
- 2. Center the ramp in the doorway and tack weld at each end. Be certain the mounting plate does not extend above the edge of dock.
- Continuously weld the mounting plate to the steel dock edge.
- 4. Weld bumper blocks on each side of ramp. Weld continuously across tops and down both sides.

Installation procedure for loading dock with steel edge less than 6in.



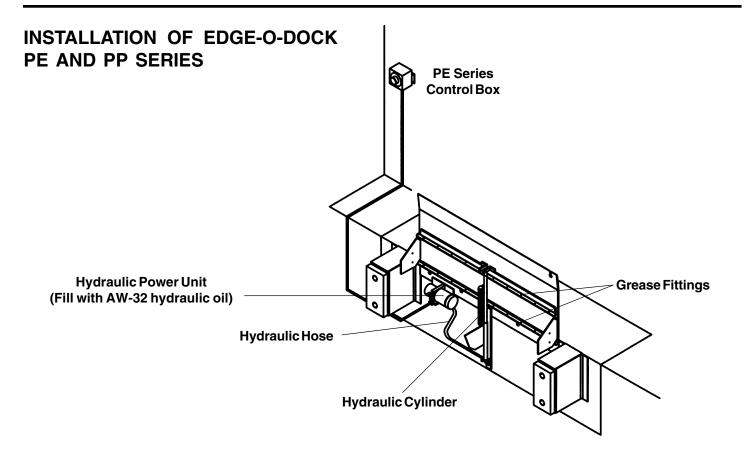
- Remove all material and protrusions from the face of the dock.
- Center the ramp in the doorway and tack weld at the end. Be certain the mounting plate does not extend above the edge of the dock.
- 3. Continuously weld the mounting plate to the steel dock edge.
- Weld bumper blocks on each side of ramp.
 Weld continuously across top and down both sides.
- 5. Install one lag bolt 3/4" x 5" on the flanges of each bumper block.
- 6. Install four 3/4" x 5" lag screws along the bottom of the mounting plate.

Installation procedure for docks without steel edges



- 1. Remove all material and protrusions from the face of dock.
- In installations where cartons or pallets are slid along the building floor into the truck, the approach plate must be recessed into a groove in the floor.
- 3. To install the groove, locate and mark the center of the dock where ramp is to be mounted. Make a centered chalk line 1/2 inch longer than ramp plate, 12 inches back from the face of the dock.
- 4. Using a SKIL ROTO Hammer No. 736, or similar tool, cut a groove 3/8" deep x 2" wide x ramp length plus 1/2 inch on the outside of the line. (The groove will start 10" from the dock face and end 12" from dock face.)

- 5. Set the beveled, formed (turned down) edge of the approach plate in the groove. The opposite edge should be flush with the edge of the dock.
- 6. Anchor the plate to floor with eight (8) 3/4" x 5" lag bolts.
- Center the mounting plate of leveler against the approach plate anchored to floor. Tack weld the mounting plate in place.
- 8. Continuously weld across the top. Chip and grind as required.
- 9. Drill holes into the dock the through the holes in the mounting plate.
- 10. Install four 3/4" x 5" anchor bolts and tighten.
- 11. Install bumper blocks on each side of ramp mounting plate. Weld the top of the bumper blocks to the ramp plate, and the side of the bumper blocks to the ramp mounting the plate. Install two anchors on each side of bumper blocks through the lower bolt holes in the flange.
- 12. Weld and round-off (with grinder) the lag bolts on the ramp plate.



Installation of PP Series

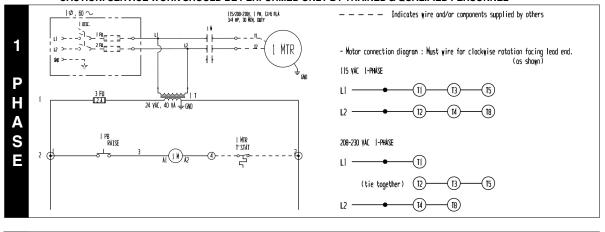
- 1. Install the PP leveler and bumpers per the preceding instructions.
- 2. Install the cylinder with the supplied parts (rod end up) at bottom only. Keep the cylinder closed (piston retracted).
- 3. Mount the hand pump adjacent to the leveler on a post or wall. Drill a hole thru the wall for hydraulic hose.
- 4. Attach the hydraulic line to the pump, run to the cylinder and loosely attach to the cylinder.
- 5. Fill the pump reservoir with the oil. Pump oil into line. Continue pumping slowly until air ceases to escape from cylinder.
- 6. Tighten fitting on cylinder and continue pumping until cylinder extends enough to attach to top bracket. Attach cylinder.

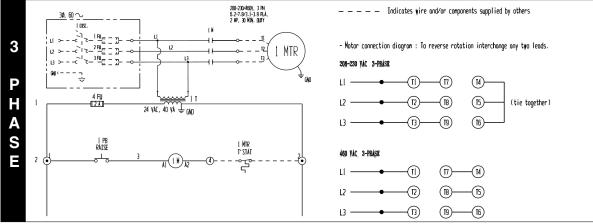
Installation of PE Series

- 1. Install the PE leveler and bumpers per preceding instructions.
- 2. Install the cylinder with the supplied parts (rod end up).
- Remove the shipping plug in the reservoir and install the breather vent.
- 4. Mount the control box on the inside wall of the building at a convenient height. Drill a hole through the wall for 1/2" conduit. Run the conduit from the hydraulic pump motor, below the bumper, and up through the hole previously drilled.
- 5. Follow standard electrical procedures and all applicable codes when installing the control box to the hydraulic unit (See electrical the schematic on page 6).
- 6. Check the operation of the leveler. Push the RAISE button and hold it in until the cylinder is fully extended. Release the button and the leveler should descend to a work position. If the leveler fails to operate, check the electrical connections to verify proper connections, power source on, and fuses installed and functioning. Operate at least 6 full cycles.
- 7. Grease all hinge fittings at the time of installation and every 3 months thereafter.

ELECTRICAL CIRCUIT DIAGRAM

BE SURE ALL POWER IS OFF BEFORE ATTEMPTING TO WORK ON THIS EQUIPMENT! CAUTION: SERVICE WORK SHOULD BE PERFORMED ONLY BY TRAINED & QUALIFIED PERSONNEL

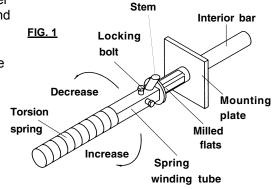


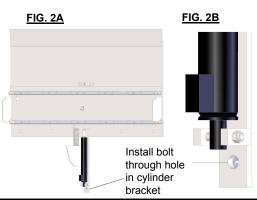


MECHANICAL EDGE-O-DOCK ADJUSTING INSTRUCTIONS

- 1.) Stand on the ground in front of the leveler. Raise the leveler to the vertical position. Place the forks of your lift truck under lip to hold lip out at nearly level position. Never work directly under lift truck forks.
- 2.) To adjust the force that counterbalances the leveler, use the pipe lever ("handle" no,.16 on p. 9) supplied with the dockleveler and a 3/4" open end wrench or socket. Place the open end of the pipe over the stem on the spring winding tube. We recommend that one person rotate the winding tube with the pipe to the desired strength and a second person tighten the 3/4" bolts onto the milled flats (of the interior bar).
- 3.) When the required lifting torsion is achieved, return to leveler to normal operating position. Check the adjustments. If the leveler still does not raise properly, repeat the previous steps to either increase or decrease spring lifting torsion. If the leveler bounces or floats when the lip is extended there is too much lifting torsion. Reverse the process described in step 2 to reduce spring tension.
- 4.) In order for the ramp plate to automatically remain under spring tension in the vertical position (when the deck plate is raised), it might be necesary to adjust the position of the cylinder bracket. Install a 3/4in. UNC x 2in. bolt through the opening at the base of the bracket (see FIGS. 2A & 2B). Wind the bolt through the nut welded onto the back side of the bracket. As the end of the bolt presses against the loading dock wall, the bracket position changes. After installing the bolt, raise the leveler. If the ramp plate still does not snap to a vertical position, lower the leveler and turn the bolt farther.

NOTE: This is an excellent time to lubricate the grease zerks on the hinges. A standard grease gun will service these. This must be done regularly (at least once per month) for ease of operation and maintenance.





MODULAR POWER UNIT OPERATION - PE

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ramp plate (above the hinge)

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Troubleshooting Guide for "PE" Series

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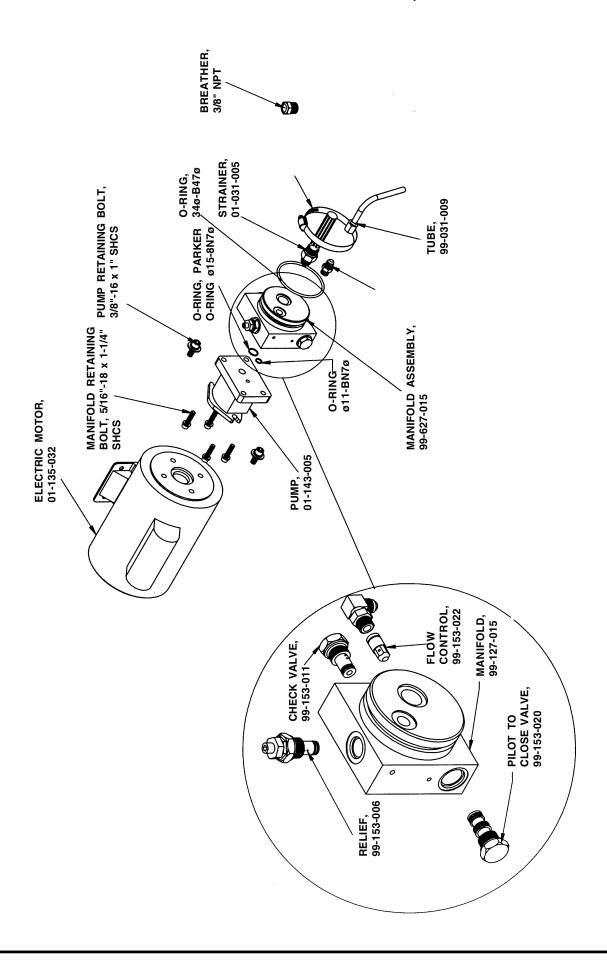
Cylinder mounting bracket is improperly

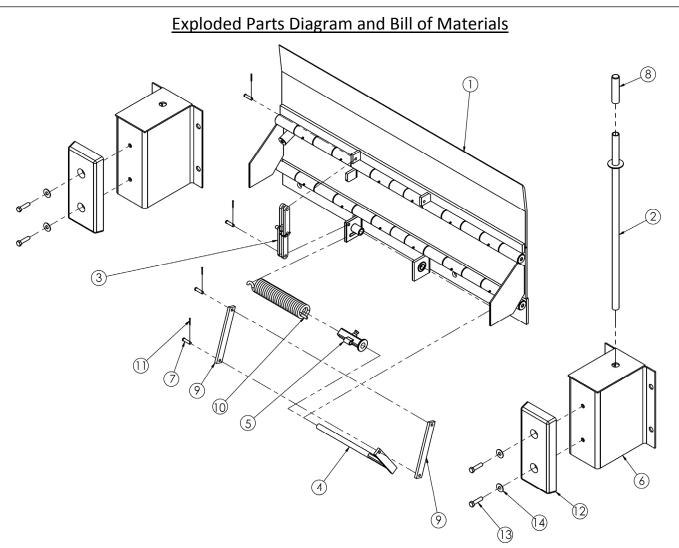
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PROBLEM **POSSIBLE CAUSE** CORRECTIVE ACTION Š^c^¦Áå[^•} @Á& &|^Á, @} Ác@ ″ W•^ÁæÁ(ˇ|cã(^c^\Á(Á&@&\KÁ(; ÁÍ; []^;Á;]]|^ÁÇæ| legs) and T[d; | Áå[^•} @Á*} ÄÜÓĐÌÒÄÁà cd } Áã Á ¦^••^åÈ control voltage; for an "open anywhere in the control circuit. "X^¦ãˆÁo@Á [d¦Á•@eeÁÁ [œe?•ÁÔÔYÈ { [c^Ai | Ac@ Aia Aa [^•] CA cc^} a EAT [d | Aca) a ~ Ò) • ` ¦^Áo@æAo@ Á^•^¦ç[ãÁæ Á` ||Áæ) åÁo@æÁæ• Áã| hole plug has] `{] Áş[oÁş[ãa^È been replaced by a breather plug. ″Ô@&\Á;¦Áã£^{•Á,^•cā;*Á;}Ác@^Á,^ç^|^¦È " Q, • cæl|ÁæÁj¦^•• • `¦^Átæĕ* ^ÁtjÁ&@&\Á@妿ĕ|æZ system pressure. If it doesn't build to 1,500 psi, consult the factory for a replacement pump. Š^ç^|^|Alæã^•Aà oÁ [} OÁ[, ^|ÊA|A[, ^|• " Ü^{ [ç^£4&@ & Áæ) å Á&|^æ) Ác@ Áj āl[d‡] ^¦æe^å check valve. [}|^Á+|[,|^È " Ü^{ [c^£A&@&\ Áæ} å Á&|^æ} Ác@ Áj āl dt] ^¦æe^å check valve and the flow control valve. ″Ô@&\Á[¦Áæ)^Áàājåāj*Á; Áó@Á; ^&@æ) ã&æ4Ájædor, hinge, etc.

" See instruction 4 on p. 6.

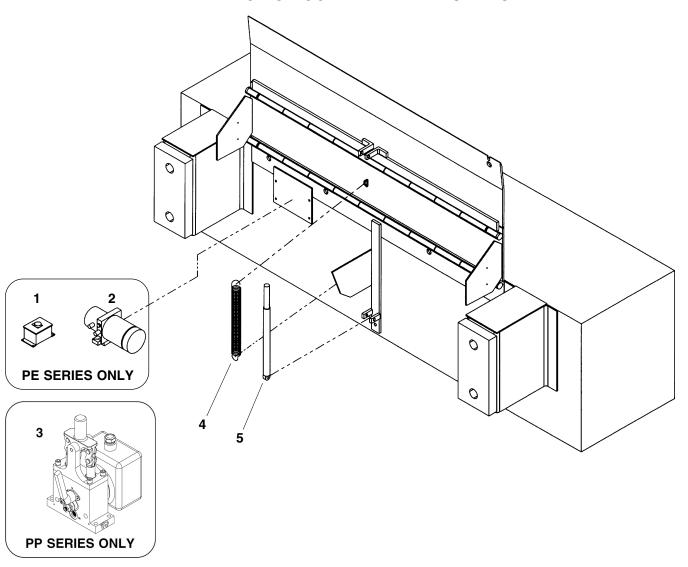
POWER UNIT ASSEMBLY, PE





Item no.	Part no.	Description	Quantity
		Weldment, assembly, deck:	
	07-513-007	FM-2066	1
07-513-006		FM-2072	1
1	07-513-013	FM-2566	1
	07-513-012	FM-2572	1
	07-513-075	FM-3066	1
	07-513-074	FM-3072	1
2	07-525-004	Assembly, handle	1
3	07-516-008	Assembly, link arm	1
4	07-612-001	Assembly, pin, spring retainer	1
5	07-518-009	Assembly, torsion tube, spring tensioner	1
6	07-514-001	Weldment, 13" bumper box	2
7	21-112-003	Pin, $\frac{1}{2}$ " x $1^{15}/_{16}$ " retaining clevis pin	4
8	07-025-005	Handle, black rubber, 6"	1
9	07-040-003	Lever, spring linkage bar	2
10	07-146-009	Spring	1
11	65078	Extended prong cotter pin, zinc finish $\frac{1}{8}$ " x $1^{1}/_{2}$ "	4
12	29-001-001	Specialty molded rubber bumper	2
13	11311	Bolt, HHCS, #5 plain $\frac{5}{8}$ " – 11 x 2"	4
14	33016	Flat washer, low carbon, USS zinc plated, $\frac{5}{8}$ 4	

EDGE-O-DOCK • PP AND PE SERIES

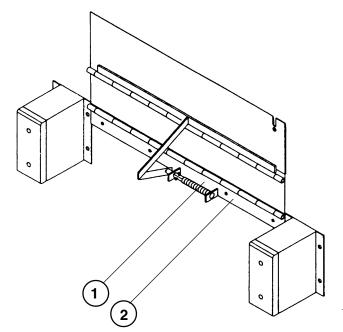


PARTS IDENTIFICATION EDGE-O-DOCK • PP AND PE SERIES

ITEM NO.	DESCRIPTION	ENGINEER NO.	PART NO.	QTY
1	Control box	PE-CONBOX	PE-CONBOX	1
2	Powerunit	PE-MOPU	PE-MOPU	1
3	Handpump	99-640-003-003	PP-HDPUMP	1
4	Extension spring	15-146-001	EOD-ES	1
5	Hydraulic cylinder, 1" dia. x 14"	06-021-001	EOD-HC	1
6	PP Hose Kit	06-623-007	EOD-PP-HK	1
7	PE Hose Kit	06-623-006	EOD-PE-HK	1
8	Cylinder Retaining Bolt	n/a	EOD-PP-PE-CYLP	2

WARNING LABEL IDENTIFICATION

MAKE SURE ALL WARNING LABELS ARE IN PLACE!



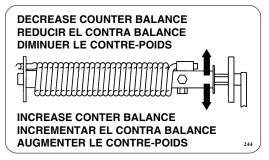
*Product safety signs or labels should be periodically inspected and cleaned by the product users as necessary to maintain good legibility for safe viewing distance ... ANSI 535.4 (10.21)

Contact manufacturer for replacement labels.

FM MODEL SHOWN



FM SERIES ONLY



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FM SERIES ONLY

A CAUTION A PRECAUCION A PRUDENCE

CONSULT OWNERS MANUAL BEFORE ADJUSTING

SECURE AND HOLD LIP IN VERTICAL POSITION. HOLD SQUARE TUBING SECURELY BEFORE LOOSENING LOCKING BOLTS WITH ANOTHER WRENCH. ADJUST IN DESIRED DIRECTION, THEN TIGHTEN LOCKING BOLTS ON FLATS OF INTERIOR ROUND BAR. CHECK FOR LIFTING FFORT AND REPEAT OPERATION IF NEEDED. LIP AND PLATE SHOULD NOT FLOAT WHEN LIP IS EXTENDED. DECREASE COUNTERBALANCE IF NEEDED. GREASE HINGES, OIL LINKAGE, AND CHECK FOR WEAR MONTHLY.

T & S EQUIPMENT CO. ANGOLA, IN

CONSULTE EL MANUAL DEL PROPIETARIO ANTES DE AJUSTAR

ASEGURE Y MANTENGA LA CEJA EN POSICION VERTICAL. MANTENGA EL TUBO CUADRADO DE FORMA SEGURA ANTES DE SOLTAR LOS PERNOS CON OTRA LLAVE. AJUSTE EN LA DIRECCION DESEADA. ENTONCES APRIETE LOS PERNOS DE SEGURO EN LAS PARTES PLANAS DE LA BARRA INTERIOR. COMPRUEBE EL ESFUERZO DE LEVANTAMIENTO Y REPITA LA OPERACION SI ES NECESARIO. LA CEJA Y LA PLATAFORMA NO DEBEN FLOTAR CUANDO LA CEJA ESTA EXTENDIDA. REDUZCA EL CONTRABALANCE SI ES NECESARIO. ENGRASE LAS BISAGRAS, FUGAS DE ACEITE, Y REVISE POR DESGASTE

T & S EQUIPMENT CO. ANGOLA, IN

CONSULTER LE MANUEL DU PROPIÉTAIRE AVANT D'AJUSTER

ASSURER ET MAINTENIR LE REBORD EN POSITION VERTICALE. BIEN TENIR LE TUBE CARRÉ AVANT DE DESSERRER LES BOULONS DE VERROUILLAGE AVEC UNE AUTRE CLÉ. AJUSTER À LA POSITION DÉSIRÉE. PUIS SERRER LES BOULONS SUR LES SURFACES PLANES À L'INTÉRIEUR DE LA BARRE. VÉRIFIER L'EFFORT D'ÉLEVATION ET RÉPÉTER L'OPÉRATION SI NÉCESSAIRE. LE REBORD ET LA PLAQUE NE DEVRAIENT PAS FLOTTER LORSQUE LE REBORD EST ÉTENDU. RÉDUIRE LE CONTRE-POIDS SI NÉCESSAIRE. GRAISSER LES CHARNIÈRES, HUILER LES JOINTURES ET VÉRIFIER L'USURE MENSUELLEMENT.

T & S EQUIPMENT CO. ANGOLA, IN

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PP & PE SERIES ONLY LOCATED ON HAND PUMP OR POWER UNIT

ISO AW-32

HYDRAULIC OIL OR EQUIVALENT
ACEITE HIDRÁULICO O EQUIVALENTE
HUILE OU ÉQUIVALENT



PE SERIES ONLY
LOCATED ON POWER UNIT

NOTICE | NOTA | AVIS

POWER SUPPLY: 115 Volt/1 Phase/60 HZ

CONTROL VOLTAGE: 24 VOLT AC

CORRIENTE: 115 Volt/1 Fase/60 HZ VOLTAJE DE CONTROL: 24 VOLT CA

ALIMENTATION ÉLECTRIQUE: 115 Volt/1 Phase/ 60 HZ

VOLTAGE DE CONTRÔLE: 24 VOLT AC

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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* <u>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.</u>

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 <u>Customer Invoice</u> that displays the shipping date; AND 2) a <u>written request</u> for warranty service including your name and phone number. Send requests by any of the following methods:

MailFaxEmailVestil Manufacturing Corporation(260) 665-1339sales@vestil.com2999 North Wayne Street, PO Box 507PhoneAngola, IN 46703(260) 665-7586

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 <u>1 year</u>. For wearing parts, the warranty period is <u>90 days</u>. 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 environments;
 - Inadequate or improper maintenance;
 - Damage sustained during shipping;
 - Collisions or other incidental contacts causing damage to the product;
 - <u>Unauthorized modifications</u>: 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.

