OWNER'S MANUAL

ELECTRIC EDGE OF DOCK • MODEL BFM / BPP / BPE

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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.
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 personal 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 Electric Edge of 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 BFM

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.

3.) 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 could be thrown over the dock edge by the lever.

4.) Remove the lever and place it in the bumper box.

5.) 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 BPP

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 BPE

1.) 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.
Dock Edge Construction

The procedure for the installation of the Electric Edge of Dock leveler varies with the dock edge construction and the height differential. The recommended dock edge for installing an Electric Edge of Dock unit is a well anchored six inch channel. With a six inch channel embedded in 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 six 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 ELECTRIC EDGE OF DOCK • BFM SERIES

Weld On Installation
(dock edge steel is 6” 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.
3. 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.

Bolt And Weld On Installation
(dock edge steel is less than 6”)

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 the dock.
3. Continuously weld the mounting plate to the steel dock edge.
4. Weld bumper blocks on each side of ramp. Weld continuously across top and down both sides.
5. Install one lag bolt 5/8” x 5” on the outside and inside flanges of each bumper block.
6. Install at least two lag screws 3/4” x 5” along the bottom of the mounting plate. Install four if the concrete is flaky or steel is not rigid.

Bolt On Installation
(for docks without steel edges)

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 the dock.
3. Continuously weld the mounting plate to the steel dock edge.
4. Position the beveled and turned-down edge of approach plate in the groove with opposite edge flush with the dock edge.
5. Anchor the plate to floor with four 5/8” x 5” lag bolts. Do not tighten yet.
6. Center the mounting plate of leveler against the approach plate anchored to floor. Tack weld the mounting plate in place.
7. Continuously weld across the top. Chip and grind as required.
8. Drill holes into the dock through the holes in the mounting plate. Depending on the cement condition, up to 8 may be required.
9. Position the beveled and turned-down edge of approach plate in the groove with opposite edge flush with the dock edge.
10. Anchor the plate to floor with four 5/8” x 5” lag bolts. Do not tighten yet.
11. Center the mounting plate of leveler against the approach plate anchored to floor. Tack weld the mounting plate in place.
12. Continuously weld across the top. Chip and grind as required.
13. Drill holes into the dock through the holes in the mounting plate. Depending on the cement condition, up to 8 may be required.
14. Position the beveled and turned-down edge of approach plate in the groove with opposite edge flush with the dock edge.
15. Anchor the plate to floor with four 5/8” x 5” lag bolts. Do not tighten yet.
16. Center the mounting plate of leveler against the approach plate anchored to floor. Tack weld the mounting plate in place.
17. Continuously weld across the top. Chip and grind as required.
18. Drill holes into the dock through the holes in the mounting plate. Depending on the cement condition, up to 8 may be required.
19. Position the beveled and turned-down edge of approach plate in the groove with opposite edge flush with the dock edge.
20. Anchor the plate to floor with four 5/8” x 5” lag bolts. Do not tighten yet.
21. Center the mounting plate of leveler against the approach plate anchored to floor. Tack weld the mounting plate in place.
22. Continuously weld across the top. Chip and grind as required.
23. Drill holes into the dock through the holes in the mounting plate. Depending on the cement condition, up to 8 may be required.
24. Position the beveled and turned-down edge of approach plate in the groove with opposite edge flush with the dock edge.
25. Anchor the plate to floor with four 5/8” x 5” lag bolts. Do not tighten yet.
26. Center the mounting plate of leveler against the approach plate anchored to floor. Tack weld the mounting plate in place.
27. Continuously weld across the top. Chip and grind as required.
28. Drill holes into the dock through the holes in the mounting plate. Depending on the cement condition, up to 8 may be required.
INSTALLATION OF ELECTRIC EDGE OF DOCK
BPE AND BPP SERIES

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).
3. 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.
MECHANICAL ELECTRIC EDGE OF DOCK ADJUSTING INSTRUCTIONS

1.) Stand on the ground in front of the leveler. Raise the leveler to its vertical position. Place fork truck forks under lip to hold lip out at nearly level position. Never work directly under fork truck forks.

2.) To adjust the counterbalancing force use the pipe lever supplied with the dockleveler and a 3/4" open end wrench or socket. Place the open end of the pipe over the protrusion on the casting and rotate down. We recommend one person to rotate the spring with the pipe handle to the desired strength and a second person to tighten the 3/4" bolts onto the milled flats.

3.) When the required lifting torsion is reached, return to leveler to normal operating position. Check the adjustments made, and, if not lifting properly, repeat the previous steps to either increase or decrease spring lifting torsion. If the leveler is bouncing or floating when the lip is extended, there is too much lifting torsion. Repeat the previous steps in reverse to reduce lifting torsion.

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 for ease of operation and maintenance, as we recommend monthly.
THE POWER UNIT'S OPERATION - BPE

The electric/hydraulic edge of dock leveler utilizes an electric motor directly coupled to a gear-type hydraulic pump to produce the needed fluid pressure and flow to allow the cylinder(s) to perform the work of lifting the dock plate.

A hydraulic manifold houses the hydraulic control components, and is bolted directly onto the gear pump.

The power unit's hydraulic components are all rated for 3,000 psi working pressure.

Important parts of power unit included:

- The electric motor. Motors are available for operation on single- or three-phase AC supplies (all are dual-voltage capable.)
- The gear pump. Its shaft is coupled directly to the shaft of the electric motor.
- The check valve. Its purpose is to prevent the backflow of fluid through the pump.
- The pressure relief valve. Its job is to open a path for fluid to flow back to the reservoir in the event that the fluid pressure built up by the pump exceeds 1,500 psi. Thus the system cannot see more than 1,500 psi.
- The pilot-operated check valve. This is a hydraulically-operated cartridge valve. It closes to allow oil flow to the cylinder(s) when the system is under pressure, then opens to allow the levelers lip to fall when the system pressure drops after the motor turns off.
- The pressure-compensated flow control. This regulates the fluid flow from the cylinder(s) back to the reservoir when the pilot-operated valve opens. It allows for the adjustment of the lip fall rate.
- The hydraulic lift cylinders(s).
- The hydraulic fluid. The system uses HO150 hydraulic fluid. Any anti-wear hydraulic fluid with an SUS viscosity of 150 - 200 at 100°F (SAE viscosity grade of 32) such as AW-32 or Dextron transmission fluid are acceptable.

When the leveler is to be extended, the operator presses the "RAISE" pushbutton. The motor turns, and in turning it spins the hydraulic gear pump. Oil is drawn from the reservoir and into the pump. System pressure builds and causes the pilot-operated check valve to close.

Once the lip extends out, the operator releases the pushbutton. The check valve prevents oil from returning to the reservoir through the pump. When the pressure in the hydraulic system drops sufficiently, the pilot-operated check valve opens to allow the oil in the cylinder(s) to return back to the reservoir through the pressure-compensated flow control valve, which will regulate the rate at which the lip lowers.

In the event that the lip won't raise, it will be necessary to remove the pilot-operated check valve for inspection and cleaning, as follows:

- Secure the lip plate in the extended position to allow access to the power unit.
- Disconnect and lock out the leveler's power supply
- Remove the cartridge valve from the cavity marked POCV.
- Inspect for contaminants in the valve or the valve cavity.
- Wash the valve in mineral spirits or kerosene if possible. Blow off the valve with a compressed-air gun.
- Replace the valve and cycle the leveler several times.

Troubleshooting Guide for "BPE" Series

Only qualified individuals trained to understand mechanical devices and their associated electrical and hydraulic circuits should attempt troubleshooting and repair of this equipment.

Care should be taken to identify all potential hazards and comply with applicable safety procedures before beginning work.

Consult the factory for problems at time of installation, or for any problems not addressed below.

Before working on the power unit, always secure the lip plate outward and disconnect the power supply.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lever doesn't cycle when the &quot;RAISE&quot; button is pressed.</td>
<td>Motor doesn't run</td>
<td>Use a multimeter to check: for proper supply (all legs) and control voltage; for an &quot;open anywhere in the control circuit.</td>
</tr>
<tr>
<td></td>
<td>Motor runs properly, but the deck doesn't move or the lip doesn't extend. Motor and pump not noisy.</td>
<td>Visually check for loose wiring or pushbutton components.</td>
</tr>
<tr>
<td></td>
<td>Leveleer raises but won't lower, or lowers only slowly.</td>
<td>Verify the motor shaft rotates CCW.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ensure that the reservoir is full and that its fill hole plug has been replaced by a breather plug.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check for items resting on the leveler.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Install a pressure gauge to check hydraulic system pressure. If it doesn't build to 1,500 psi, consult the factory for a replacement pump.</td>
</tr>
</tbody>
</table>

- Remove, check and clean the pilot-operated check valve.
- Remove, check and clean the pilot-operated check valve and the flow control valve.
- Check for any binding of the mechanical parts; hinge, etc.
POWER UNIT ASSEMBLY, BPE

- ELECTRIC MOTOR, 01-135-032
- MANIFOLD RETAINING BOLT, 5/16"-18 x 1-1/4", SHCS
- PUMP RETAINING BOLT, 3/8"-16 x 1" SHCS
- O-RING, PARKER ø15-8N7ø
- O-RING, ø11-BN7ø
- STRAINER, 01-031-005
- BREATHER, 3/8" NPT
- TUBE, 99-031-009
- MANIFOLD ASSEMBLY, 99-627-015
- PUMP, 01-143-005
- FLOW CONTROL, 99-153-022
- MANIFOLD, 99-127-015
- PILOT TO CLOSE VALVE, 99-153-020
- RELIEF, 99-153-006
- CHECK VALVE, 99-153-011
## PARTS IDENTIFICATION•ELECTRIC EDGE OF DOCK
### BFM SERIES

<table>
<thead>
<tr>
<th>KIT CODE</th>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>ENGINEER NO.</th>
<th>PART NO.</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1</td>
<td>Rubber bumper</td>
<td>29-005-001</td>
<td>EOD-RB</td>
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<tr>
<td>A, D</td>
<td>2</td>
<td>Washer, 5/8&quot;</td>
<td>33015</td>
<td>EOD-WSR</td>
<td>4</td>
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<tr>
<td>A, D</td>
<td>3</td>
<td>Bolt 5/8&quot;-11 UNC x 2 1/2&quot;</td>
<td>11313</td>
<td>EOD-BOLT1</td>
<td>4</td>
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<tr>
<td>B, D, E</td>
<td>4</td>
<td>Pin, 1/2&quot; dia. x 1-3/4&quot;</td>
<td>06-112-003</td>
<td>EOD-RP1</td>
<td>4</td>
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<tr>
<td>B, E</td>
<td>5</td>
<td>Secondary linkage arm</td>
<td>07-040-003</td>
<td>EOD-SLA</td>
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<td>B, E</td>
<td>6</td>
<td>Main linkage arm</td>
<td>07-612-001</td>
<td>EOD-MLA</td>
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<tr>
<td>B, D, E</td>
<td>7</td>
<td>Cotter pin, 1/8&quot; x 1-1/8&quot;</td>
<td>65125</td>
<td>EOD-CP1</td>
<td>5</td>
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<td>C, E</td>
<td>8</td>
<td>Sealed roller bearing</td>
<td>07-110-001</td>
<td>EOD-SRB</td>
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<td>E</td>
<td>9</td>
<td>Adjustment Collar</td>
<td>07-518-001</td>
<td>EOD-AC</td>
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<td>C, D, E</td>
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<td>13205</td>
<td>EOD-BLT2</td>
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<td>C, E</td>
<td>11</td>
<td>Torsion spring</td>
<td>07-146-009</td>
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<td></td>
<td>12</td>
<td>Bumper block</td>
<td>30-048-001</td>
<td>EOD-BB</td>
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<td></td>
<td>13</td>
<td>Toe guard (welding required)</td>
<td>07-024-002</td>
<td>EOD-TG</td>
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<td>14</td>
<td>Pin, 1/2&quot; dia. x 2&quot; long</td>
<td>07-112-007</td>
<td>EOD-CP2</td>
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<td>15</td>
<td>Lip Extension Arm</td>
<td>07-016-018</td>
<td>EOD-LEA</td>
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<td>16</td>
<td>Handle</td>
<td>07-025-004</td>
<td>EOD-HDL</td>
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<td>17</td>
<td>Grip</td>
<td>07-025-005</td>
<td>EOD-PG</td>
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<td>18</td>
<td>Link Arm 2 (block welded on)</td>
<td>07-516-009</td>
<td>EOD-LEA-2</td>
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<td>Link Arm 3 (knob on end)</td>
<td>07-016-021</td>
<td>EOD-LEA-3</td>
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<td>A</td>
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<td>Replacement bumper kit (items 1-3)</td>
<td>07-154-001</td>
<td>EOD-KIT-A</td>
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<tr>
<td>B</td>
<td>11</td>
<td>Replacement linkage kit (items 4-7)</td>
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<td>EOD-KIT-B</td>
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<tr>
<td>C</td>
<td>12</td>
<td>Replacement spring kit (items 8,10,11)</td>
<td>07-154-004</td>
<td>EOD-KIT-C</td>
<td>1</td>
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<tr>
<td>D</td>
<td>13</td>
<td>Hardware kit (items 2-4,7,10)</td>
<td>07-154-003</td>
<td>EOD-KIT-D</td>
<td>1</td>
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<tr>
<td>E</td>
<td>14</td>
<td>Mechanical Kit (items 4-11)</td>
<td>07-154-005</td>
<td>EOD-KIT-E</td>
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<tr>
<td>F</td>
<td>15</td>
<td>Counter Balance Kit</td>
<td>07-154-006</td>
<td>EOD-KIT-F</td>
<td>1</td>
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</tbody>
</table>
## ELECTRIC EDGE OF DOCK • BPP AND BPE SERIES

![Diagram of electric edge of dock](image)

### PARTS IDENTIFICATION

**ELECTRIC EDGE OF DOCK • BPP AND BPE SERIES**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>DESCRIPTION</th>
<th>ENGINEER NO.</th>
<th>PART NO.</th>
<th>QTY</th>
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<tbody>
<tr>
<td>1</td>
<td>Control box</td>
<td>PE-CONBOX</td>
<td>PE-CONBOX</td>
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<td>2</td>
<td>Power unit</td>
<td>PE-MOPU</td>
<td>PE-MOPU</td>
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<tr>
<td>3</td>
<td>Handpump</td>
<td>PP-HDPUMP</td>
<td>PP-HDPUMP</td>
<td>1</td>
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<tr>
<td>4</td>
<td>Extension spring</td>
<td>15146001</td>
<td>EOD-ES</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Hydraulic cylinder, 1&quot; dia. x 14&quot;</td>
<td>06021001</td>
<td>EOD-HC</td>
<td>1</td>
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<td>6</td>
<td>PP Hose Kit</td>
<td>06-623-007</td>
<td>EOD-PP-HK</td>
<td>1</td>
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<td>7</td>
<td>PE Hose Kit</td>
<td>06-623-006</td>
<td>EOD-PE-HK</td>
<td>1</td>
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<tr>
<td>8</td>
<td>Cylinder Retaining Bolt</td>
<td>n/a</td>
<td>EOD-PP-PE-CYLP</td>
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</tr>
</tbody>
</table>
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.

1. BFM SERIES ONLY

DECREASE COUNTER BALANCE
REDUCIR EL CONTRA BALANCE
DIMINUER LE CONTRE-POIDS

INCREASE COUNTER BALANCE
INCREMENTAR EL CONTRA BALANCE
AUGMENTER LE CONTRE-POIDS

2. CAUTION
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 EFFORT 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.

3. CAUTION
BPP AND BPE SERIES ONLY
LOCATED ON HAND PUMP OR POWER UNIT

ISO AW-32
HYDRAULIC OIL OR EQUIVALENT
ACEITE HIDRÁULICO O EQUIVALENTE
HUILE OU ÉQUIVALENT

4. NOTICE
NOTA
AVIS
POWER SUPPLY: 115 Volt/1 Phase/60 Hz
CONTROL VOLTAGE: 24 Volt AC
CORRIENTE: 115 Volt/1 Fase/60 Hz
VOLTAGE DE CONTRÔLE: 24 Volt CA
ALIMENTATION ÉLECTRIQUE: 115 Volt/1 Phase/60 Hz
# LIMITED WARRANTY

ONE YEAR LIMITED WARRANTY. The manufacturer warrants for the original purchaser against defects in materials and workmanship under normal use one year after date of purchase. (Not to exceed 15 months after date of manufacture.) Any part which is determined by the manufacturer to be defective in material or workmanship and returned to the factory, shipping costs prepaid, will be, as the exclusive remedy, repaired or replaced at our option. Labor costs for warranty repairs and/or modifications are not covered unless done at manufacturer’s facilities. Any modifications performed without written approval of the manufacturer may void warranty. This limited warranty gives purchaser specific legal rights which vary from state to state.

LIMITATION OF LIABILITY. To the extent allowable under applicable law, the manufacturer’s liability for consequential and incidental damages is expressly disclaimed. The manufacturer’s liability in any event is limited to, and shall not exceed, the purchase price paid. Misuse or modification may void warranty.

WARRANTY DISCLAIMER. Our company has made a diligent effort to illustrate and describe the products shown accurately; however, such illustrations and descriptions are for the sole purpose of identification, and do not express or imply a warranty that the products are merchantable, or fit for a particular purpose, or that the products will necessarily conform to the illustrations or descriptions.

The provisions of the warranty shall be construed and enforced in accordance with the UNIFORM COMMERCIAL CODE and laws as enacted in the State of Indiana.

DISPOSITION. Our company will make a good faith effort for prompt correction or other adjustment with respect to any product which proves to be defective within the Limited Warranty. Warranty claims must be made in writing within said year.

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## SERVICE RECORD

| DATE OF SERVICE: _____/____/____ | DATE OF SERVICE: _____/____/____ |
| WORK DONE BY: ____________________ | WORK DONE BY: ____________________ |
| SERVICE PERFORMED: __________________________________ | SERVICE PERFORMED: __________________________________ |
| __________________________________ | __________________________________ |

| DATE OF SERVICE: _____/____/____ | DATE OF SERVICE: _____/____/____ |
| WORK DONE BY: ____________________ | WORK DONE BY: ____________________ |
| SERVICE PERFORMED: __________________________________ | SERVICE PERFORMED: __________________________________ |
| __________________________________ | __________________________________ |

| DATE OF SERVICE: _____/____/____ | DATE OF SERVICE: _____/____/____ |
| WORK DONE BY: ____________________ | WORK DONE BY: ____________________ |
| SERVICE PERFORMED: __________________________________ | SERVICE PERFORMED: __________________________________ |
| __________________________________ | __________________________________ |

| DATE OF SERVICE: _____/____/____ | DATE OF SERVICE: _____/____/____ |
| WORK DONE BY: ____________________ | WORK DONE BY: ____________________ |
| SERVICE PERFORMED: __________________________________ | SERVICE PERFORMED: __________________________________ |
| __________________________________ | __________________________________ |