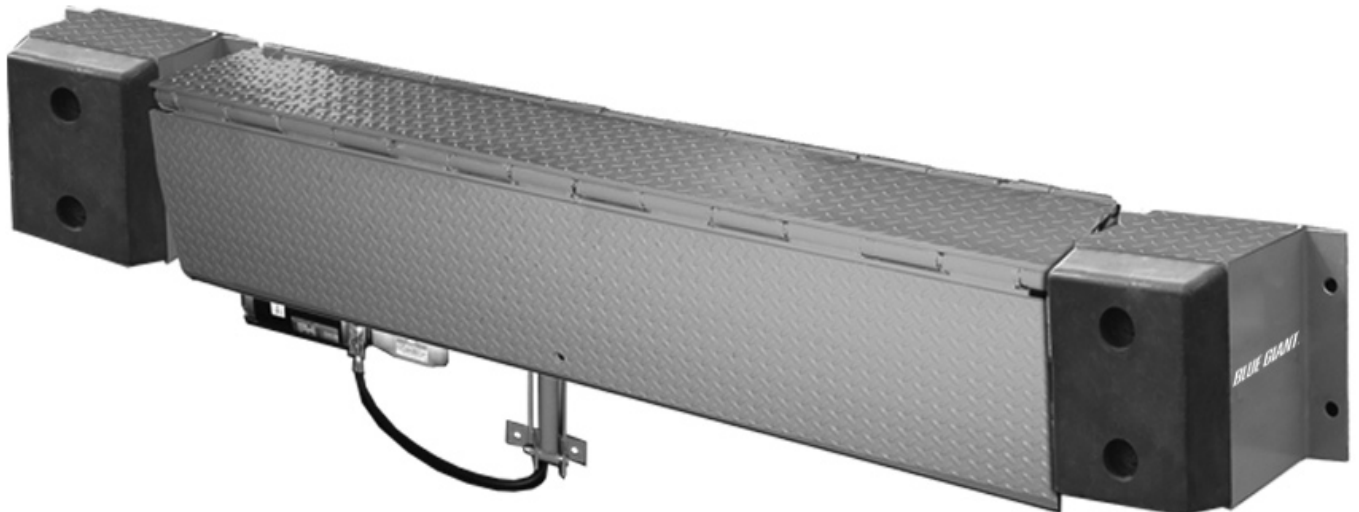


HYDRAULIC EDGE-OF-DOCK LEVELER

MDC SERIES

INSTALLATION & OWNER'S MANUAL



! WARNING

DO NOT INSTALL, OPERATE OR SERVICE THIS PRODUCT UNLESS YOU HAVE READ AND FULLY UNDERSTOOD THE ENTIRE CONTENTS OF THIS MANUAL. FAILURE TO DO SO MAY RESULT IN PROPERTY DAMAGE, BODILY INJURY OR DEATH.

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CHECK SHIPMENT BEFORE INSTALLATION

The leveler has been carefully checked at the manufacturer's plant before shipment. In order to ensure that no damage has occurred during transport, the leveler should be checked upon receipt for transport damage and to ensure correct operation. Damage due to transport is to be listed on the signed copy on the freight document. The freight forwarder must be notified of any damage within 48 hours. Damaged levelers must not be put into use.

OWNER'S PURCHASE RECORD	
Dealer:	Date in Service:
Owner:	Number of Units:
Order Number:	Year of Construction:
Serial Number(s):	

Blue Giant offers a full line of dock levelers, dock safety equipment, accessories, ergonomic and scissor lift equipment, and industrial trucks. Concurrent with our continuing product improvement program, specifications are subject to change without notice. Some features illustrated may be optional in certain market areas. Visit www.BlueGiant.com for latest product information.

SAFETY PROCEDURES

INTRODUCTION

The following is intended to be a quick reference to some of the important procedures to follow while using the MD-CH Series Edge-Of-Dock Leveler. It is not intended to cover, or suggest that it does cover, all procedures required to be followed to ensure safe operation. Operators should be aware of and abide by all workplace safety regulations that may apply to the operation of the MD-CH Series Edge-Of-Dock Leveler. These laws and regulations include but are not limited to:

- Occupational Safety and Health Act (USA).
- Occupational Safety and Health Acts for Individual States (USA).
- Canadian Material Handling Regulations.

For further information on these regulations and / or industry standards that may apply to this equipment, please contact:

American National Standards Institute (ANSI)
1430 Broadway
New York, NY 10018
(212) 642-4900

WARNING

1. Do not install this leveler, operate and/or service unless you have been trained and authorized to do so.
2. Do not install, operate and/or service this leveler until you have read and understood all of the safety information and instructions contained herein and on the leveler.
3. Do not operate this leveler until you have checked its condition. Report the need for leveler repairs to your supervisor immediately and do not operate leveler until repairs are made. Neglect may cause a minor repair to become a major service problem and cause the leveler to become unsafe.
4. Do not work under or around leveler being installed without first placing adequate barriers to positively prevent vehicle traffic from entering the work area.
5. All electrical wiring, hook-up, repair and troubleshooting must be performed by qualified service personnel. All wiring, hook-up and repairs must be made to meet all applicable codes. Before doing any electrical work, make certain the power is disconnected and properly tagged and / or locked out.
6. Before performing any maintenance, secure dock leveler properly.
7. Do not load leveler beyond capacity shown on serial name plate on leveler.
8. Stay clear of dock leveler and vehicle when vehicle is backing in or leaving dock area.
9. Secure vehicle by chocking vehicle wheels or use of vehicle restraint, as detailed by OSHA, before operating dock leveler.
10. Do not use or move the dock leveler if anyone is under, in front and/or on dock leveler.
11. Keep hands and feet clear of dock leveler pinch points

- at all times. Never use hands to lift dock ramp and/or lip onto vehicle or to store dock leveler.
12. Never try to lift or move any part of the Edge-Of-Dock Leveler with your hands.
13. Do not drive on leveler unless lip is securely on vehicle bed and has a minimum of 4" (100mm) projection on vehicle bed.
14. Do not exceed 3 mph when driving over dock leveler.
15. Do not drive over edges of the leveler and / or dock bumper blocks (bumpers blocks are not structural).
16. Do not leave equipment or material unattended on leveler.
17. Do not leave the leveler unattended in the deployed position.
18. Do not use fork vehicle or any other material handling equipment to lower leveler ramp.
19. Never attempt to perform repairs. Always defer repairs to a qualified service technician.
20. Wear safety equipment as required.
21. Workplace practical guide for safe use of this product may restrict the use of any substance that may compromise or impair safe operational use.

This manual is intended to be readily available. Keep it near the leveler as a ready reference for anyone who may operate or service it. If the leveler being operated is not equipped with a manual, request to obtain one and have it located near the leveler

An authorized dealer or distributor is readily available to answer questions about leveler operation and maintenance and will provide additional information should it be required.

EXCLUSION OF LIABILITY

The manufacturer assumes no liability for damage or injury to persons or property which have occurred as a result of defects or faults in the dock levelers delivered or due to incorrect use. The manufacturer also assumes no liability for lost profits, operating down times, or similar indirect losses which the buyer has incurred. Damage to third parties, irrespective of its nature, is not subject to compensation.

The operating instructions are not subject to notification of amendment. The descriptions and illustrations included in our operating instructions and replacement parts list are not binding. In the interests of continuing product development, we reserve the right to make any changes at any time to the product construction, structure, components and accessories, concurrent with our continuing product improvement program, specifications are subject to change without notice. Please contact Blue Giant for latest product information, or visit our web site www.BlueGiant.com for the most current product information.

SAFETY WARNINGS



WARNING

Always lock-out and tag-out any power source before performing any work on any electrical devices or electrical controls according to OSHA regulations and approved local electrical codes.

PROPER LOCK-OUT/TAG-OUT PROCEDURE

The following is intended to be a quick reference to some of the important procedures to follow by the Occupational Safety and Health Administration (OSHA) that requires, in addition to posting safety warnings and barricading the work area, that the power supply must be locked in the **OFF** position or disconnected. OSHA mandates that an approved lockout device is used. The above example of proper lockout is shown above. The proper lockout procedure requires that the person responsible for the repairs is the only person who has the ability to remove the lockout device.

LOCK RULES

1. Use an appropriate "Lock-Out Device". Each person must attach his or her own lock to the Lock-Out Device.
2. Identify Locks - Each lock will be identified by a number or a name. A lock without a tag is not good enough. Additional information that identifies the person / persons doing the work must be on the tag. Also the type of work that is being performed should be on the tag.
3. Sign The Tag - In some instances one tag is enough, however, the tag must be signed by each worker. In some circumstances a supervisor will also need to sign the tag.
4. One Key Per Lock
5. Never give your key to anyone else.

Re-check controls and return to proper setting.

We recommend an entire safety program for the Control of Hazardous Energy (Lock-out/Tag-out). These regulations are available through OSHA publication 3120.

Safety Signs and Safety Messages

Improper operation can cause accidents. Don't take chances with incorrect or damaged equipment. Read and understand the procedures for safe operation and maintenance outlined in this manual. Do not hesitate to ask for help.

Stay alert! Follow safety rules, regulations, and procedures. Avoid accidents by recognizing dangerous procedures or situations before they occur.

Safety signs and messages are placed in this manual to provide instructions and identify specific areas where potential hazards exist and special precautions should be taken. Know and understand the meaning of these instructions, signs, and messages. Damage to the equipment, death, or serious injury to you or other persons may result if these messages are not followed. If warning decals are damaged, they must be replaced. Contact authorized dealer/distributor for replacement decals.

DANGER

This message indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

This message indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

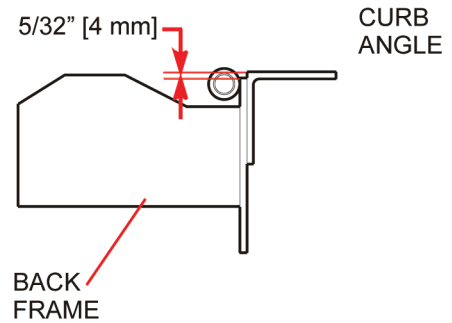
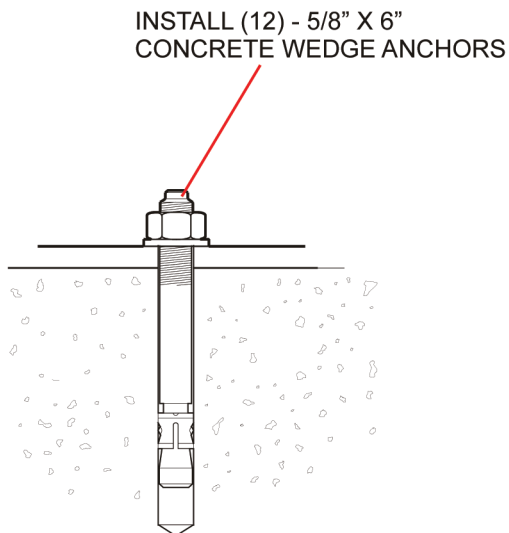
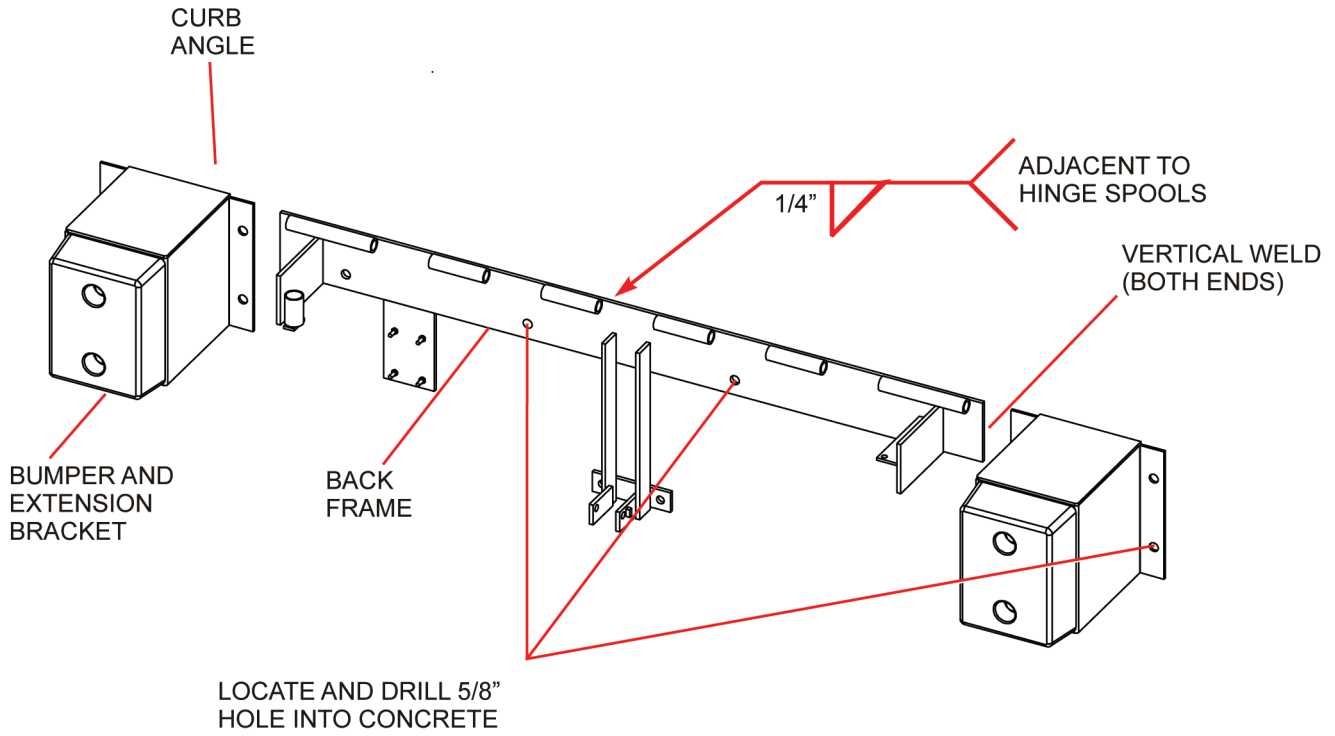
CAUTION

This message indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

IMPORTANT

This message is used when special precautions should be taken to ensure a correct action or to avoid damage to or malfunction of the equipment and/or a component.

INSTALLATION INSTRUCTIONS



INSTALLATION INSTRUCTIONS

WARNING

Do not install, operate and/or service this leveler until you have read and understood all of the safety information and instructions contained herein and on the leveler.

Do not work under or around leveler being installed without first placing adequate barriers to positively prevent vehicle traffic from entering the work area.

Keep hands and feet clear of dock leveler pinch points.

Hydraulic Edge-Of-Dock Installation

1. Inspect the loading dock curb angle and verify that it is firmly embedded and anchored in the concrete and is minimum 3" x 8" x 1/4" (75 x 75 x 6mm) steel. If there is no curb angle, if anchoring or embedding is questionable, or is not of minimum size specified, proceed with advise installation mounting types per page 6.

WARNING

The EOD leveler must be welded to a firmly embedded steel channel or other dock steel as described in the installation instructions. Do not attempt to use only bolts or anchors to attach the dock leveler to the concrete.

Use caution when removing strapping from the EOD leveler. Keep hands clear of pinch points and wear appropriate safety attire - glasses, gloves and work boots.

2. Remove strapping from the EOD and discard all shipping material.

WARNING

Use caution when lifting or moving the EOD leveler. Do not attempt to lift without suitable hoisting equipment capable of lifting as much as 600 lbs.

3. Locate and set aside the push-button control box and hydraulic power pack with mounting bracket. Remove the bumper extensions and store outside the immediate work area.

4. Tack weld top of back frame securely to curb angle.

5. Ensure that the back frame is firmly against curb angle or dock face concrete and plug-weld the back frame to the curb angle at the four circular holes in the frame. If curb angle does not overlap these holes, use the back plate as a template and drill four holes 5/8" dia. x 6" (15mm x 150mm) deep, in the dock face concrete. Clean out holes and insert and permanently install appropriate concrete wedge anchors. Tighten enough to secure the Back Frame.

6. Finish weld the top of the back frame to the curb angle. Weld 1/4" x 5" (6mm x 125mm) long welds on both ends of the back frame. Repeat the 1/4" welds on 9" (225mm) centers across the full length of the back frame.

7. Vertical weld both ends of back frame to curb angle, full length of vertical contact. Tighten the wedge anchor nuts securely.

8. Position the left-hand bumper bracket (as viewed when standing on the driveway in front of the Dock Leveler) so that there is 1/2" (13mm) clearance between the bracket side and the comfort grip handle pocket, and the bracket is level with the top of the curb angle. Weld all horizontal and vertical contact areas between bracket and curb angle and plug weld mounting holes that overlap curb angle. Install concrete wedge anchors 5/8" x 6" (15mm x 150mm) in mounting holes that are not welded.

9. Position the right-hand bumper bracket so that there is a 1/2" (13mm) clearance between the bracket and the dock leveler deck plate. Weld all horizontal and vertical contact areas between bracket and curb angle and plug weld mounting holes that overlap curb angle. Install concrete wedge anchors 5/8" x 6" (15mm x 150mm) in mounting holes that are not welded.

10. Lubricate all pivot points using SAE30 motor oil or equivalent.

Self-Contained Power Pack (per mounted)

14. Enlist the services of a qualified electrician to have the electrical conduit and wiring installed between the push button control box and the power pack motor.

Remote Power Pack Installation

15. Securely mount the hydraulic power pack horizontally on an interior wall adjacent to the door opening, at approximately 8 feet (2438mm) above the floor level. Install 1-1/2" (38mm) conduit for hydraulic hose, from the lift cylinder up and through the exterior wall to the hydraulic power pack. Pull the hydraulic hose through the conduit and attach to the fitting on the power pack center manifold and the opposite end to the fitting located at the base of the lift cylinder. Repeat the same for the lip cylinder. Ensure that the hose is free of kinks and clear of any obstructions. Secure the hose to the foundation structure using clips. Enlist the services of a qualified electrician to have the electrical conduit and wiring installed between the push button control box and the power pack motor.

Installation Inspection

1. Clean up the entire work area and apply touch-up paint to all welds, scratches and burns.

2. Ensure all concrete wedge anchors have been securely tightened.

3. Test operate the unit through several full cycles of operation. Refer to: Operating Procedures. If problems are noted, See Section on Troubleshooting.

4. Leave these Instructions with the Dock Leveler for use by owner.

INSTALLATION MOUNTING TYPES

8" Pour-In Channel

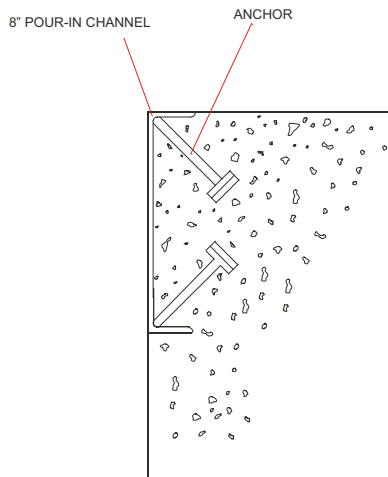


Figure 2 : 8" Pour-In Channel Arrangement

- Must be poured-in with dock concrete.
- 8" Structural channel minimum, 11.5 lb/ft.
- Weld-on curb angle concrete anchors to be minimum 5/8" x 6" long located on 12" centers with one anchor 3" from each end.

One Piece Angle Plate

Face Plate Types - For use on existing docks with no curb steel

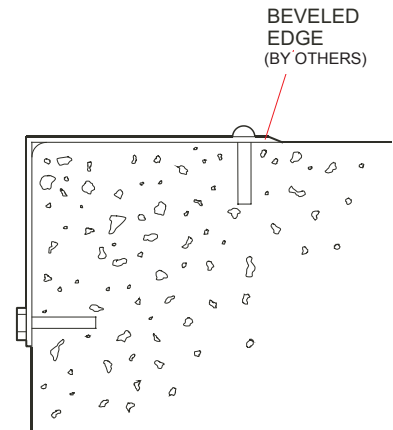


Figure 4 : One Piece Angle Plate

- 1/4" minimum plate thickness. Top plate 13" wide, face plate 10" wide. Length to suit EOD Leveler model.
- Place angle plate on existing dock as shown. Use as drill template.
- Lag to sound concrete as follows:
Top Plate - Drill 3/4" dia. x 3-1/2" deep holes. Insert 5/8" expansion sleeves (010-116). Install and tighten 5/8" x 1-1/2" button-head bolts (010-117) using 3/8" Allen key.
Face Plate - Drill 5/8" dia x 6" deep holes. Insert 5/8" x 6" long concrete anchor wedges (010-108) and tighten.

Optional Approach Ramp Installation

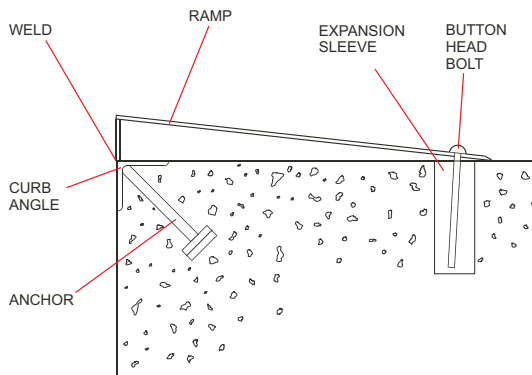


Figure 3 : Approach Ramp Arrangement

- Position ramp as illustrated. Outside edge of ramp flush with outside edge of curb angle.
- Tack-weld ramp to curb angle.
- Drill 3/4" dia. holes using ramp as a template. Insert 5/8" expansion sleeves (010-116). Install and tighten 5/8" x 1-1/2" button-head bolts (010-117) using 3/8" Allen key wrench.
- Weld the ramp to the curb angle as illustrated. 1/4" x 5" welds on 9" centers.

Two Piece Angle Plate

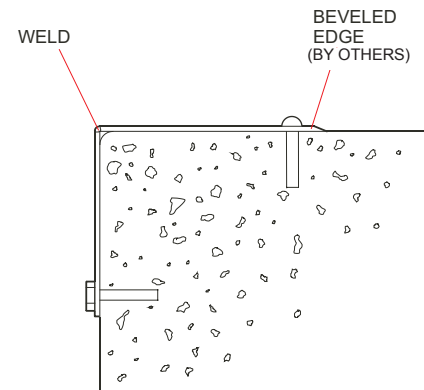


Figure 5 : Two Piece Angle Plate

- 1/4" minimum plate thickness. Top plate 13" wide, face plate 10" wide. Length to suite EOD Leveler model.
- Place top plate on top of existing dock, front edge flush with dock face, full length.
- Drill 3/4" dia. x 3-1/2" deep holes using plate as template. Insert 5/8" expansion sleeves (010-116). Install and tighten 5/8" x 1-1/2" button-head bolts (010-117) using 3/8" Allen key wrench.
- Place face plate in position as shown. Position top edge for welding and tack-weld to top plate.
- Drill 5/8" dia. x 6" deep holes using plate as a template. Insert 5/8" x 6" long concrete wedge anchors (010-108) and tighten.
- Weld the two plates together as illustrated. 1/4" x 5" long welds on 9" centers.

Note : All hardware must be purchased separately as part of an optional mounting kit. Consult your local distributor/dealer for more information.

OPERATING INSTRUCTIONS

⚠ WARNING

Do not install this leveler, operate and/or service unless you have been trained and authorized to do so.

Do not install, operate and/or service this leveler until you have read and understood all of the safety information and instructions contained herein and on the leveler.

Do not operate this leveler until you have checked its condition. Report the need for leveler repairs to your supervisor immediately and do not operate leveler until repairs are made. Neglect may cause a minor repair to become a major service problem and cause the leveler to become unsafe.

Never try to lift or move any part of the Dock Leveler without using the comfort grip handle.

Keep hands and feet clear of dock leveler pinch points at all times. Never use hands to lift dock ramp and/or lip onto vehicle or to store dock leveler.

Do not drive on leveler unless lip is securely on vehicle bed and has a minimum of 4" (100mm) projection on vehicle bed.

Do not exceed 3 mph when driving over dock leveler.

Do not drive over edges of the leveler and / or dock bumper blocks (bumpers blocks are not structural).

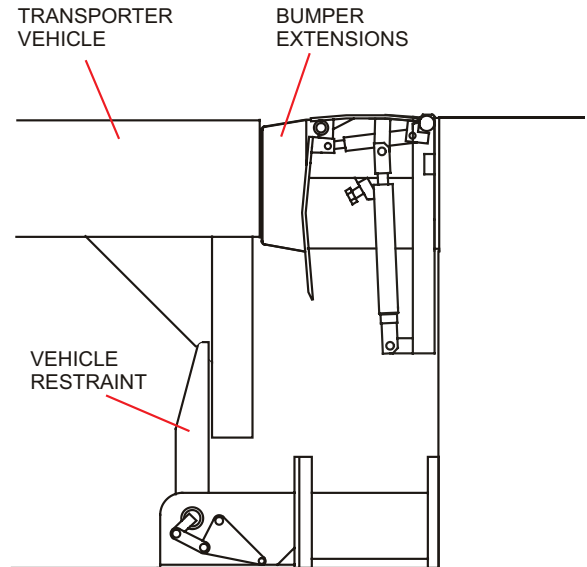
FUNCTIONAL DESCRIPTION

- The Hydraulic Edge-of-Dock (EOD) Leveler is intended to be used as a bridge located between a loading dock floor surface and the rear deck upper surface of a vehicle.
- The EOD Leveler upper deck plate complete with a hinged, vertically hanging lip plate is located flush with the floor surface and is permanently mounted on the outer edge of the loading dock.
- The rear deck surface of a vehicle is parked and blocked in place against the dock bumpers that are integral components of the EOD Leveler, in working alignment with the EOD Leveler. An EOD Leveler used in conjunction with a Vehicle Restraint are ideal for this application. Consult your local Dealer/Distributor.
- The EOD is operated by maintaining pressure on a push button switch located on a control box. The push button activates a hydraulic pump/motor that forces fluid into a hydraulic lift cylinder. As the cylinder rod extends, the deck is rotated up into a vertical position. When the lift cylinder reaches its maximum extension the smaller lip cylinder begins to extend forcing the lip plate into a vertical position as well. The push button switch is then released. As the operator releases the push button switch, the lip cylinder remains extend while the lift cylinder retracts. This forces the lip plate to remain in an extended position as the deck plate moves forward. The lip plate moves forward horizontally until the underside comes to rest on the load bed of the vehicle.
- No other means of support is provided when in this position.
- The EOD Leveler is restored to its original stored position by the operator before the vehicle is allowed to depart.

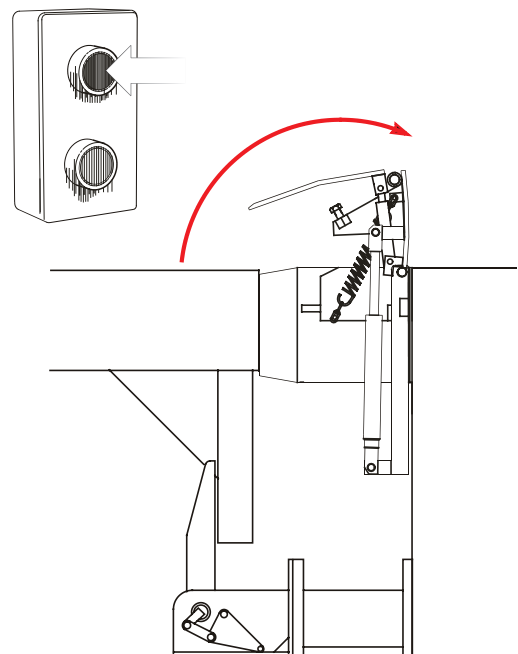
OPERATION

DOCK IS AVAILABLE FOR USE

1. The vehicle driver reverses the vehicle into position firmly against the dock bumper extensions.



2. The EOD is operated by pushing and holding the push-button down on the control box.



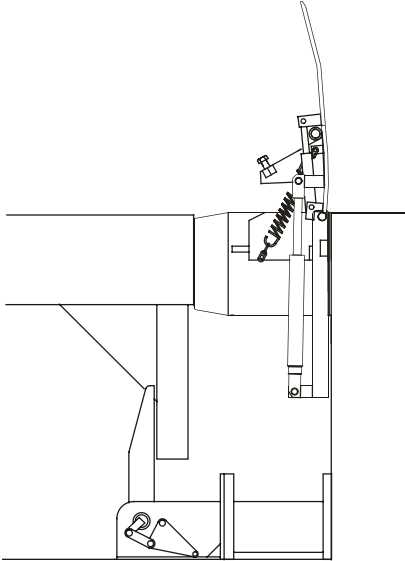
3. The dock operator assures the vehicle is secured. (using either a vehicle restraint or wheel chocks) to prevent forward creep or unexpected departure.

OPERATING INSTRUCTIONS

⚠ WARNING

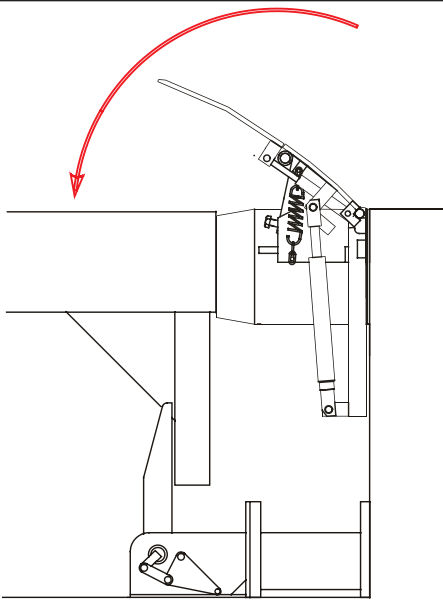
Do not attempt to operate the EOD leveler while the optional comfort grip handle is in use as a maintenance stand.

4. The operator maintains pressure on the “UP” push button to raise the EOD to its most extended raised position.



⚠ WARNING

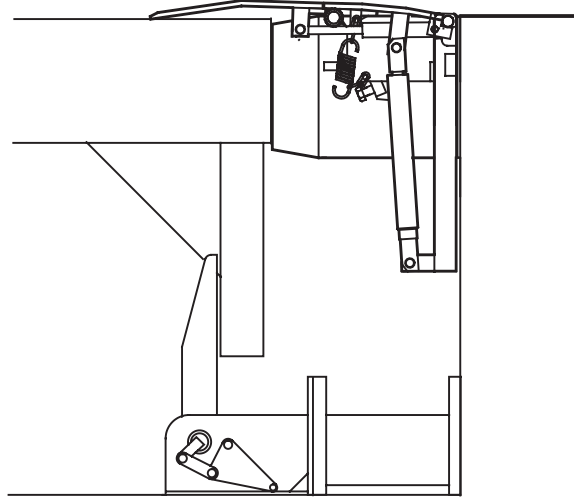
The lip plate must overlap the vehicle load bed by a minimum of 4” (100mm) full width.



5. The Lift Cylinder will extend to its maximum length, raising the Deck Plate to a near vertical position. When the Lift Cylinder has reached its fullest extension the Lip Cylinder begins to extend.

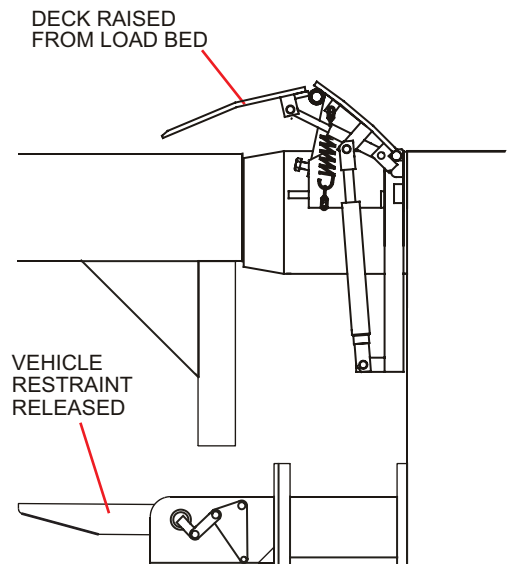
⚠ WARNING

The vehicle should never be allowed to depart with the lip plate resting on the load bed.



6. With the lip plate in full contact with the vehicle load bed, the loading/unloading operation can be completed.

7. When the loading/unloading operation is completed, the operator repeats Steps 3 & 4 - to raise the lip plate off the vehicle load bed.



8. The operator releases the vehicle restraint or removes the wheel chocks to allow the vehicle to depart. The operator then indicates to the vehicle driver that it is safe to depart.

9. The dock is once again available for use.

MAINTENANCE

WARNING

Do not work under or around the dock leveler without first placing adequate barriers to positively prevent vehicle traffic from entering the work area.

Never attempt to perform repairs. Always defer repairs to a qualified service technician.

Routine Servicing And Maintenance

Regular maintenance and care of the equipment is very important for cost and operation efficiency and more importantly operator safety. Faulty equipment is a potential source of danger to the operator, and to other personnel working near it. As with all quality equipment, keep the equipment in good operating condition by following the recommended schedule of maintenance.

Failure to do so will void the manufacturer's warranty.

Authorize Usage

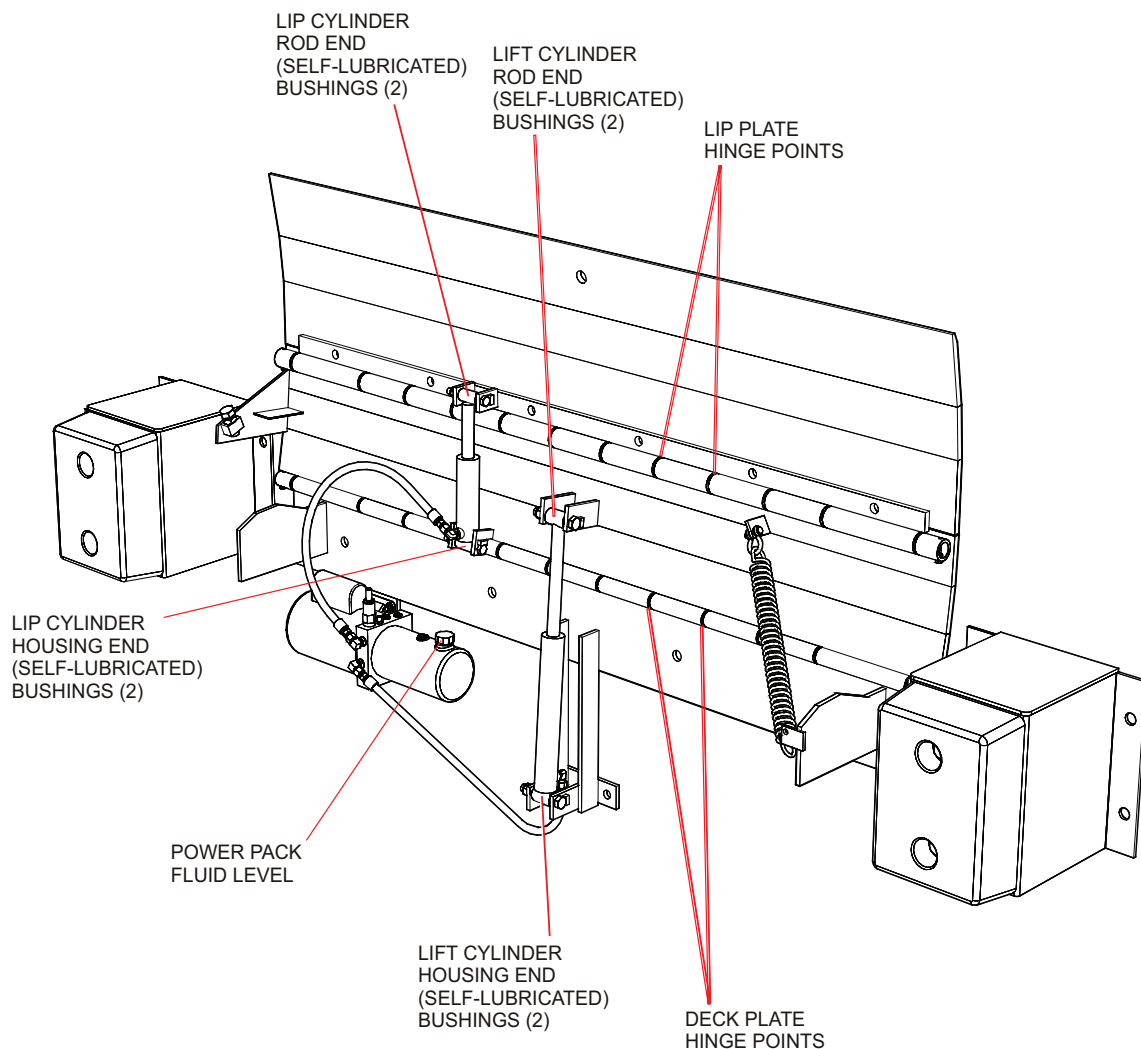
The importance of this procedure is emphasized in this manual with a brief review and later with more detailed instructions. For more information regarding authorize usage contact manufacture.

Available support by dealer/distributor:

- *Equipment usage training and authorization*
- *Workplace practical guide for safe use of this product*
- *Ease of service; inspection and planned maintenance*
- *Equipment daily inspection check list*

Maintenance Sequence

1. Cleaning, including surrounding area.
2. Visual inspection of all components.
3. Lubrication as required.
4. Test operate all functions.
5. Adjustments if required.

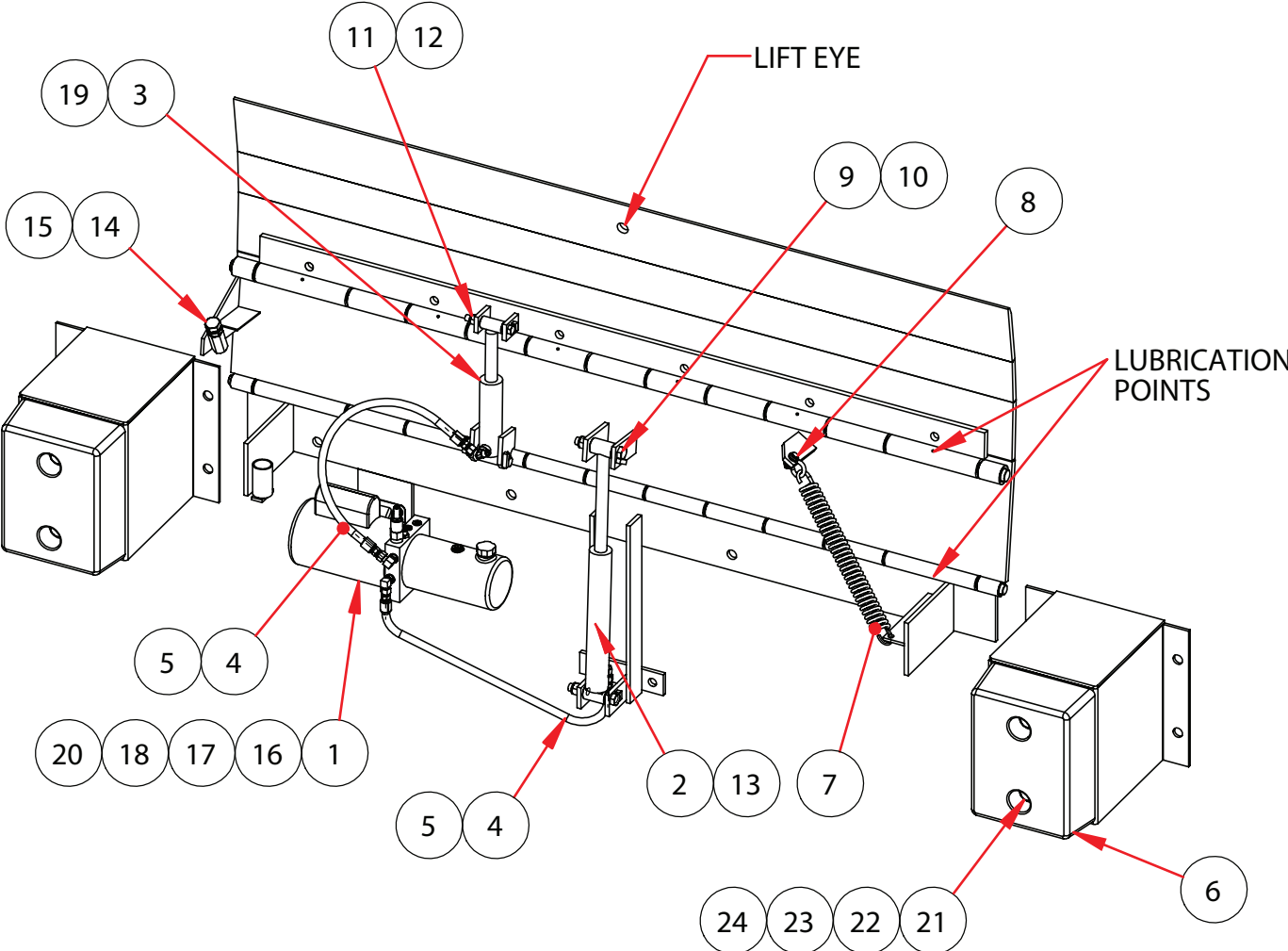


Hydraulic Edge-Of-Dock Leveler - Component Identification

TROUBLE SHOOTING

Problem	Cause and Solution
Unit does not lower from fully raised position when push button is released.	Lubricate all pivot points - SAE10 oil Check return spring tension (part #017-034), adjust or replace as required
Unit lowers from fully raised position, but lip does not remain horizontal as deck plate rotates downward. - Lip does not deploy onto load bed	Deck stop chain requires adjustment. Do not operate EOD with stop chain removed. Power Pack requires Sequential Pressure setting adjustment. (Consult Factory)
Lip Plate raises early causing it to strike the rear of the vehicle.	Power Pack requires Sequential Pressure setting adjustment. (Consult Factory) Deck/Lip Stop requires adjustment. (See Items 22 & 23, Figure 8 : General Assembly - 25,000 lb. Capacity - 72" Wide)

REPLACEMENT PARTS

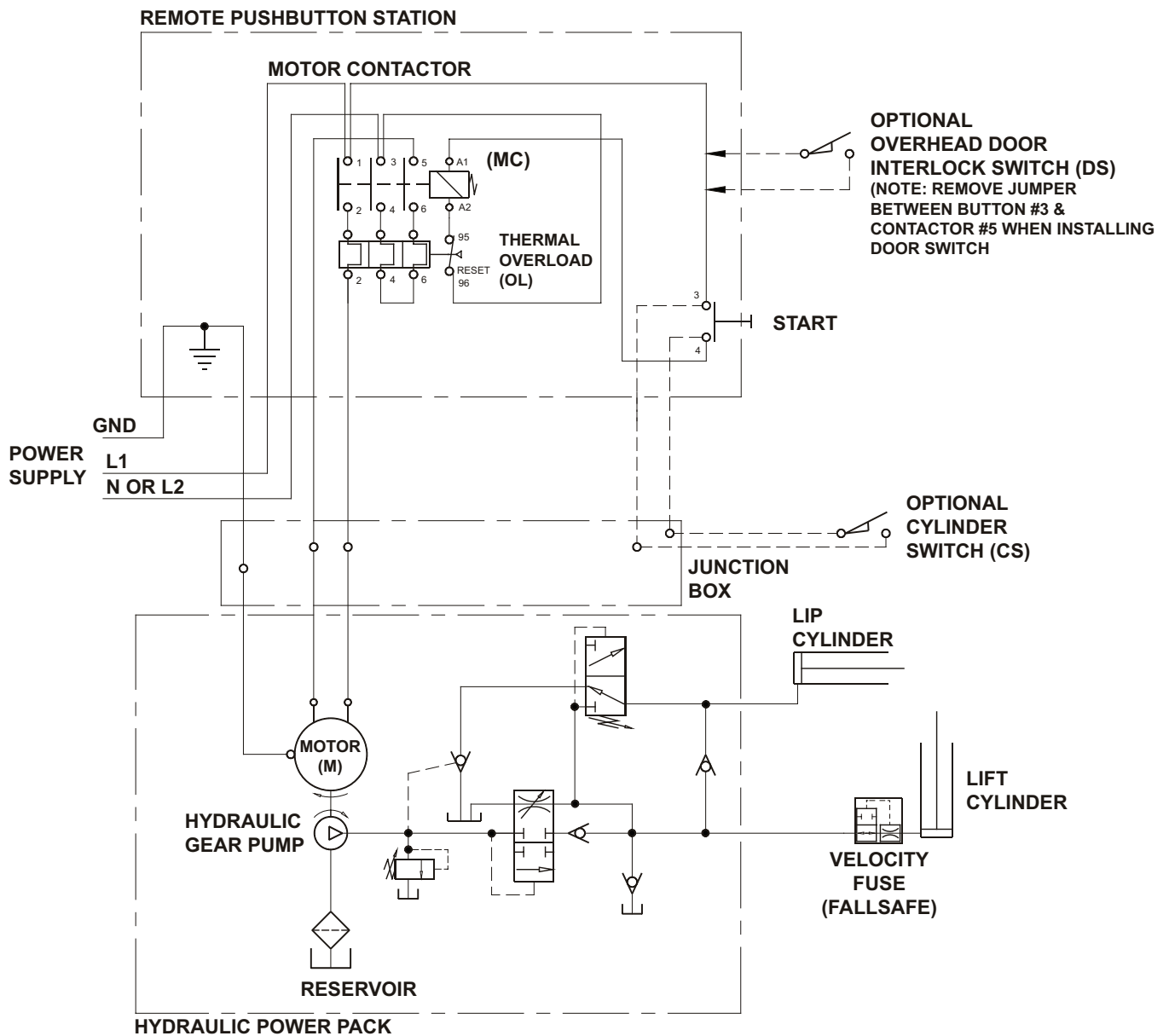


Model MD-CH : 30,000 lb. Capacity

AVAILABLE REPLACEMENT PARTS

ITEM	QTY	PART NUMBER	GENERAL DESCRIPTION	SPECIFIC DESCRIPTION
1	1	033-434	POWER PACK	ALL MODELS
2	1	200-03114	LIFTING CYLINDER ASSY.	ALL MODELS
3	1	200-03115	LIP CYLINDER ASSY.	ALL MODELS
4	2	300-5000-17	HYDRAULIC HOSE	ALL MODELS
5	2	034-601	FITTING	ALL MODELS
6	2	110-886	BUMPER	ALL MODELS
7	1	017-034	TENSION SPRING	ALL MODELS
8	1	013-616	SHACKLE	ALL MODELS
9	2	010-168	CAP SCREW	ALL MODELS
10	2	011-621	LOCK NUT	ALL MODELS
11	2	010-131	CAP SCREW	ALL MODELS
12	2	011-554	LOCK NUT	ALL MODELS
13	4	018-007	BUSHING	ALL MODELS
14	1	010-059	CAP SCREW	ALL MODELS
15	1	011-530	JAM NUT	ALL MODELS
16	4	012-211	FLAT WASHER	ALL MODELS
17	4	012-200	LOCK WASHER	ALL MODELS
18	4	011-502	NUT	ALL MODELS
19	4	018-006	BUSHING	ALL MODELS
20	1	027-006	CONTROL BOX-PUSH BUTTON	ALL MODELS
21	4	010-086	CAP SCREW	ALL MODELS
22	4	012-214	WASHER	ALL MODELS
23	4	011-510	NUT	ALL MODELS
24	4	012-222	LOCK WASHER	ALL MODELS
-----	1	027-006	CONTROL STATION 115v	ALL MODELS
-----	1	027-007	CONTROL STATION 230v	ALL MODELS

WIRING DIAGRAM & HYDRAULIC SCHEMATIC



Above schematic is for 1 HP, 115-230V/1/60 (dual voltage motor) for MDC Series Model MD-CH.

■ Full load amps = 14.0/6.8

NOTES

NOTES

WARRANTY

The Manufacturer's Base Warranty policy, as posted on manufactures web site, applies at time of warranty claim to the following Product Classes as listed below. Additional warranties for the following Product Classes, as listed below, may apply if pre-authorized and approved by manufacturer (please contact manufacturer for further information). Visit manufacturer's web site for our current warranty policies.

BASE WARRANTY

The manufacturer warrants to the original purchaser of the loading dock equipment purchased from the manufacture to be free from defective material and workmanship under normal use for a period of 1 year (365 days). Manufacturer warrants all electrical components (electrical controls, switches, etc.) purchased from the manufacture to be free from defective in material and workmanship under normal use for a period of ninety (90) days, subject to accepted Non-Conformance Report (NCR). All warranty coverage is to commence from the date of receipt by the first end user or sixty (60) days after date of shipment, whichever comes first. Purchaser agrees upon the manufacturer's standards of use as listed below:

- 1) Product selection and usage based in regards to rated capacities, duty cycle limitations, grade limitations and/or design specific application(s) requirements.
- 2) Product to be properly installed per manufacturer's instructions, by manufacturer trained personnel.
 - a. The proper initial field set-up, adjustment and lubrication are the sole responsibility of the end user, at time of installation.
- 3) Product to be properly maintained per manufacturer's instructions, by manufacturer trained personnel.
 - a. Maintenance is not covered under this warranty and is the sole responsibility of the end user.
- 4) Product usage and operation must be per manufacturers instructions.
 - a. Product usage and operation training is the sole responsibility of the authorized manufacturer Service Company
- 5) No warranty is available for wear items as determined by the manufacturer (example: pins, bushings, cylinder(s), etc.).
- 6) Product usage and operation must be per manufacturers instructions.
 - a. Product usage and operation training is the sole responsibility of the authorized manufacturer Service Company.

The Warranty Registration Form must be completed in full and returned to the manufacturer within sixty (60) days of receipt in order for the warranty to be deemed valid.

The manufacturer shall remedy any defects deemed covered under this warranty by replacing or repairing any defective equipment or parts while incurring reasonable expenses, as determined by manufacturer, for all parts, labor and freight unless otherwise stated herein. Freight expenses for shipping repair/replacement parts will be incurred under conditions of standard shipping terms. Any overnight or special freight requirements will be billed to the end user or authorized dealer as recognized by the manufacturer.

Any Original Equipment Manufactured (OEM) part that is replaced during the Base Warranty time period will be either: further covered for the remainder of the Base Warranty time period, or for a further 90 days: whichever is longer.

ADDITIONAL WARRANTY TIME PERIODS:

Parts or components which fail under normal usage and are proven to be defective will be deemed eligible for repair or replacement, (providing no special conditions apply, as stated below) providing the failure occurs within the Additional Warranty Time Period of a given Product Class as stated below. Replacement parts will be supplied F.O.B. factory.

Edge-Of-Dock Leveler, no further coverage beyond the expiration of the Base Warranty time period of one (1) year parts, labor and freight.

WARRANTY CLAIMS AND VALIDATION:

- 1) Authorization must be given by manufacturer, prior to any "corrective" work is undertaken.
 - a. Upon manufacturer's approval of "corrective" work, authorized manufacturer Service Company is required to make complete repairs.
 - i. Authorized manufacturer Service Company location is to be within 125 miles/200 kilometers from customer location, unless pre-authorized in writing by manufacturer.
 - b. Manufacturer's warranty claim form is then required to be completed.
 - i. Warranty form is required to be sent to the manufacturer within thirty (30) days of claim.
 1. Manufacturer at its discretion may require and request further information:
 - a. Documentation i.e., service orders, invoices, etc...
 - b. Photographs of defective and/or repaired product and/or components.
 - c. Manufacturer at its discretion may require and request return of all defective parts.
 - i. Requires manufacturers authorized Service Company to request RGA (return goods authorization) approval, prior to return of defective parts to manufacturer.
 1. Return of completed RGA and/or defective parts is within thirty (30) days of request.
- 2) Manufacture at its discretion may require and request site inspection at any given time it deems it is required, to better provide greater details that have not been met as stated above.

WARRANTY IS VOID IF:

- 1) Warranty Registration Form is not completed and returned to the manufacturer within sixty (60) days of receipt.
- 2) The original purchaser does not notify the manufacturer of the defect within ninety (90) days after the defect has been detected.
- 3) Equipment is modified in any manner not approved by the manufacturer.
- 4) Equipment unauthorized conditions of use:
 - operated beyond its rated capacity,
 - in excess of its determined duty cycle,
 - operated in excess of its determined maximum grade,
 - Or combination of the above therein, which can directly be attributed to be the cause of failure.
- 5) Equipment is used in abrasive, corrosive, and/or conditions of excessive cold /moisture without having been factory specified to be engineered to withstand such conditions.

WARRANTY

NO WARRANTY IS AVAILABLE FOR THE FOLLOWING:

- 1) No warranty claim is available for normal maintenance, including initial field set-up and adjustments (i.e., lubrication, adding oil, etc.).
- 2) Wear items as determined by manufacturer (example: pins, bushings), etc.). Contact manufacturer for complete listing.
- 3) Repairs required as a result of:
 - Failure to follow maintenance and/or lubrication procedures specified in the owner's manual.
 - Abuse, willful damage, accident, neglect, and/or beyond contemporary weather
 - Shipping damage. (Claim must be made with the freight carrier)
- 4) Rental equipment and/or standard installation and service tools, unless approved by the manufacturer.

THE MANUFACTURER DOES NOT ASSUME RESPONSIBILITY OR LIABILITY FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, OR FOR LOSS OF PROFIT OR DAMAGE TO TRADE OR BUSINESS WHICH RESULTS FROM THE EQUIPMENT.

THE ABOVE WARRANTIES ARE IN LIEU OF ANY OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN.



85 Heart Lake Road South
Brampton, Ontario, Canada L6W 3K2
Phone: 905-457-3900 • Fax: 905-457-2313
www.BlueGiant.com

BLUE GIANT EQUIPMENT CORPORATION