

# OWNER'S MANUAL

## VL VERTICAL STORING DOCK LEVELER WITH BLUE GENIUS™ TOUCH CONTROL



ACTUAL PRODUCT MAY NOT APPEAR EXACTLY AS SHOWN



### WARNING

Do not operate or service this product unless you have read and fully understand the entire contents of this manual. Failure to do so may result in property damage, bodily injury or death.

**BLUE GIANT**®

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## 1.0 ABOUT THE VERTICAL STORING DOCK LEVELER WITH BLUE GENIUS™ TOUCH CONTROL

The Blue Giant VL Vertical Storing Dock Leveler enables a complete energy efficient seal. The dock is stored in the vertical position inside the building, allowing the overhead door to close completely, which reduces door damage, prevents energy loss and debris entry, and improves security levels. It is the perfect loading dock solution for facilities that must maintain strict temperature or humidity controls.

The Blue Genius™ Gold Series I Touch Control Panel features include an LCD menu screen, function buttons ('DECK', 'LIP', 'DOWN', 'STOP'), and a flat-surface keypad with unique touch sensors.

### 1.1 OWNER'S PURCHASE RECORD

**OWNER'S PURCHASE RECORD**  
Please record information for future inquiries and to validate warranty. (See Section 2.1 for warranty validation)

<b>Dealer:</b>	<b>Date in Service:</b>
	<b>Number of Units:</b>
<b>Serial Number:</b>	<b>Door #:</b>

**NOTICE**

See Section 11.0 "Decal Identification and Location" item #1 for serial number location.

The manufacturer offers a full line of dock levelers, dock safety equipment, accessories, ergonomic and scissor lift equipment, seals and shelters, and industrial trucks. Concurrent with a continuing product improvement program, specifications are subject to change without notice (see Section 2.2 "Exclusion of Liability"). Please contact the manufacturer for latest information. Some features illustrated may be optional in certain market areas.

## 2.0 INTRODUCTION

The following is a quick reference to important procedures that must be followed while using the dock equipment. It is not intended to cover, or suggest that it does cover, all procedures necessary to ensure safe operation. All operators should be aware of and abide by all workplace safety regulations applicable to the operation of the dock equipment. These laws and regulations include but are not limited to:

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

For additional information on these regulations as well as industry standards that may apply to this product, please contact:



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

Also a member of:



Loading Dock Equipment Manufacturers  
 A Product Section of Material Handling Industry of America  
 A Division of Material Handling Industry  
 8720 Red Oak Blvd, Suite 201  
 Charlotte, NC, 28217-3992  
 Telephone: (704) 676-1190

## 2.1 WARRANTY INFORMATION

Thank you for purchasing Blue Giant products. We appreciate your business, and are confident that our product will serve you for many years to come. In the event that you experience a problem with our product, our Warranty Center is here to support the Blue Giant product(s) that you have purchased.

To validate warranty on recently purchased equipment, please complete and submit your information with our online Warranty Registration at [www.BlueGiant.com](http://www.BlueGiant.com).

### DEALER INFORMATION

**Name:** \_\_\_\_\_

**Contact:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_

For more information about Blue Giant Warranty Support, please contact your local Blue Giant Equipment dealer, representative or authorized partner near you. You may also visit [www.BlueGiant.com](http://www.BlueGiant.com) or phone 1.905.457.3900.

\* Note that failure to validate warranty at the time of receipt can seriously affect the outcome of any claim.

## 2.2 EXCLUSION OF LIABILITY

The manufacturer assumes no liability for damage or injury to persons or property which occur as a result of defects or faults in or incorrect use of dock equipment. The manufacturer also assumes no liability for lost profits, operating downtimes, or similar indirect losses incurred by the purchaser. Injury to third parties, irrespective of its nature, is not subject to compensation.

The manufacturer reserves the right to make changes at any time to the modules, components, and accessories, concurrent with its continuing product development program. Specifications, operating instructions, and illustrations included in this manual are subject to change without notice. Please contact manufacturer for the latest information.

## 2.3 MANUFACTURER'S NOTE

The dock equipment has been carefully inspected and tested at the manufacturer's plant prior to shipment, but should be checked upon receipt for transport damage. Any observed transport damage is to be listed on the signed copy of the freight document. Notify the freight forwarder of any damage WITHIN 48 HOURS.

## 2.4 OWNER'S RESPONSIBILITY

1. The owner should recognize the inherent danger of the interface between the dock and the freight carrier. The owner should, therefore, train and instruct operators in the safe use of the dock equipment and accessories in accordance with the manufacturer's recommendations.
2. The owner should thoroughly familiarize themselves with the following procedures and specifications, and request immediate replacement of all manufacturer-supplied documents that are missing, damaged, or otherwise illegible. Below is a list of Best Practices for dock equipment usage and maintenance.
  - Commissioning instructions
  - Operating instructions
  - Daily maintenance procedures checklist
  - Inspections procedures
  - Recommended spare parts lists

Upon receipt of any newly purchased dock equipment, the owner shall verify the presence of owner's manuals, operating placards, and any other documentation necessary for training dock personnel how to use the equipment safely and effectively.
3. All Blue Giant dock equipment should undergo regularly scheduled planned maintenance. Maintenance requirements will vary according to usage frequency and application, so the owner shall consult with their authorized Blue Giant distributor for schedule recommendation. Written records of the performance of these procedures should be kept as per warranty requirements.
4. Dock equipment that is structurally damaged, experiencing performance irregularities, or has been potentially compromised shall be removed from service until a trained and authorized manufacturer's representative can conduct an inspection and perform any necessary repairs.
5. As with any piece of machinery, dock equipment requires routine maintenance, lubrication, and adjustments. Recommended procedures are itemized in the Planned Maintenance Program (PMP) checklist included in installation and technical manuals. It is recommended that for anything other than the basic maintenance procedures outlined in this manual, you contact your local Blue Giant representative.
6. The owner shall ensure that all name plates and safety labels are in place and legible, and that the appropriate manuals are provided to authorized users. Replacement name plates, safety labels, and manuals are available through the Blue Giant Aftermarket Department. See "Decal Identification and Location" section in this manual for more information.
7. The owner or a trained and authorized representative shall verify that all freight carrier brakes have been applied and a vehicle restraint and/or wheel chocks properly engaged before cross-docking procedures begin. For safety reasons trailers must be held securely in place to avoid accidental separation from the loading dock.
8. Unless specifically agreed to in writing by Blue Giant Equipment Corporation at the time of order (and prior to manufacture), all Blue Giant Dock equipment is sold as a complete offering and must not be altered or added to in any manner (which includes configuration and function) without written permission from an authorized manufacturer's representative. These changes shall also satisfy all safety recommendations of the original equipment manufacturer for the particular application of the dock equipment.
9. If, at the request of the owner, Blue Giant does not supply all or some of the dock equipment power unit and/or control panel components, the owner shall assume responsibility for any and all operational and safety issues associated with the resulting configuration.

### 3.0 OPERATOR'S MANUAL SAFETY MESSAGE COLOR IDENTIFICATION

This manual includes color-coded safety messages that clarify instructions and specify areas where potential hazard exists. To prevent the possibility of equipment damage and serious injury or death, please observe strictly the instructions and warnings contained in the messages. If warning decals become damaged or missing, replace them immediately. Avoid accidents by recognizing dangerous procedures or situations before they occur.

**⚠ DANGER**

Serious injury or death will likely occur if the instructions are not followed.

**NOTICE**

Procedures marked notice must be followed in order to prevent damage to machinery.

**⚠ WARNING**

Serious injury or death may occur if the instructions are not followed.

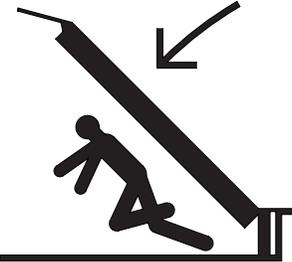
**⚠ CAUTION**

Instructions marked caution concern safe operating procedure. Failure to comply may result in personal injury.

### 3.1 OPERATIONAL SAFETY WARNINGS

**⚠ DANGER**

**CRUSH HAZARD**



1. Do not operate leveler with anyone standing in its path.
2. Do not service leveler unless the maintenance strut and safety stand have been properly engaged. See SECTION: ENGAGING MAINTENANCE STRUT
3. **BEFORE BEGINNING ANY SERVICE PROCEDURES:**  
Position the dock leveler in the vertically stored position. Disconnect the power and follow all lockout / tagout procedures in this manual.
4. Do not operate leveler without following the procedure below if the leveler has not been in service for an extended period of time.
5. **PROCEDURE FOR FILLING CYLINDER:**  
Touch and hold the 'UP' button (Run Pump) to operate for (35) seconds

**⚠ WARNING**

1. Keep away from hinge when operating leveler.
2. Post safety warnings and barricade working area at dock level and at ground level to prevent unauthorized use of the dock leveler during maintenance/service.
3. During installation, anchors must be properly torqued to obtain the necessary anchoring strength. **DO NOT USE IMPACT DRIVERS.**
4. Do not drive or walk onto truck/trailer until the truck/trailer is parked against the dock bumpers and the wheels are chocked or the vehicle restraint has been fully engaged and the lights have changed to GREEN inside and RED outside.
5. Never attempt to lift the lip or hold the lip out by hand. Serious personal injury could occur.
6. Do not remove lifting equipment until: the main cylinder has been filled and the maintenance stand has been installed and engaged.
7. Always check the rigging to make sure that it is secure before attempting to lift the unit. Never stand under any unit being lifted.
8. Never remove the wheel chocks until loading/ unloading is finished and the truck driver has been given permission to drive away from the dock.

**NOTICE**

1. Do not ground welding equipment to any hydraulic cylinder or electrical components.
2. Do not attach welder as ground to leveler platform when welding on base frame assembly. Attach welder ground to base frame assembly only. Damage to bearings or hydraulic equipment will occur.
3. Do not allow the drill to go too deeply into the box when drilling holes in the control box. Damage to the control systems may occur.
4. Never use air to blow debris from control box. Use a vacuum to remove debris from control box.
5. Do not connect green ground lead into control box or junction box until all welding has been completed.
6. Check hydraulic fluid level. Deck mounted power unit has been filled with fluid but cylinders, hoses and manifold are shipped dry.
7. Check motor rotation. Jog the motor until rotation has been determined. Do not allow the motor to run in reverse for more than a couple of seconds, because this will damage the power unit.
8. Do not force valve adjustment screws against internal stops. Damage will occur to the valve/seat.
9. If a procedure is not clearly defined in this manual, contact your authorized service representative.

**3.1 OPERATIONAL SAFETY WARNINGS CONT'D.**

 <b>CAUTION</b>
<ol style="list-style-type: none"> <li>1. Only trained personnel should operate or service this equipment</li> <li>2. Do not operate leveler until truck/trailer is parked against the dock bumpers and the truck/trailer has been secured</li> <li>3. Always return the leveler platform to the proper stored position</li> <li>4. Always conduct routine inspections and maintenance. Failure to conduct could cause personal injury or damage to equipment</li> <li>5. Always call your authorized service representative or manufacturer immediately if a malfunction occurs</li> </ol>

**4.0 LOCKOUT / TAGOUT PROCEDURE AND RULES**

In accordance with the rules and regulations of the Occupational Safety and Health Administration (OSHA), all affected employees must be notified that the machine or equipment will be shut down and locked out to perform repair or maintenance work. The work area must be checked to ensure that all personnel have been removed or safely repositioned. The machine or equipment power supply shall be locked in the OFF position or disconnected from the energy source. Blue Giant strongly recommends that only OSHA-approved lockout devices be utilized.

The energy isolating device must bear a prominent warning tag indicating that work is being done on the equipment and the name of the authorized employee responsible for the lockout. It is mandatory that tagout notices not be susceptible to deterioration or illegibility due to weather conditions or exposure to chemicals and moisture.

 <b>WARNING</b>
<p>Always lockout and tagout any power source before performing any work on any electrical devices or electrical controls according to OSHA regulations and approved local electrical codes.</p>

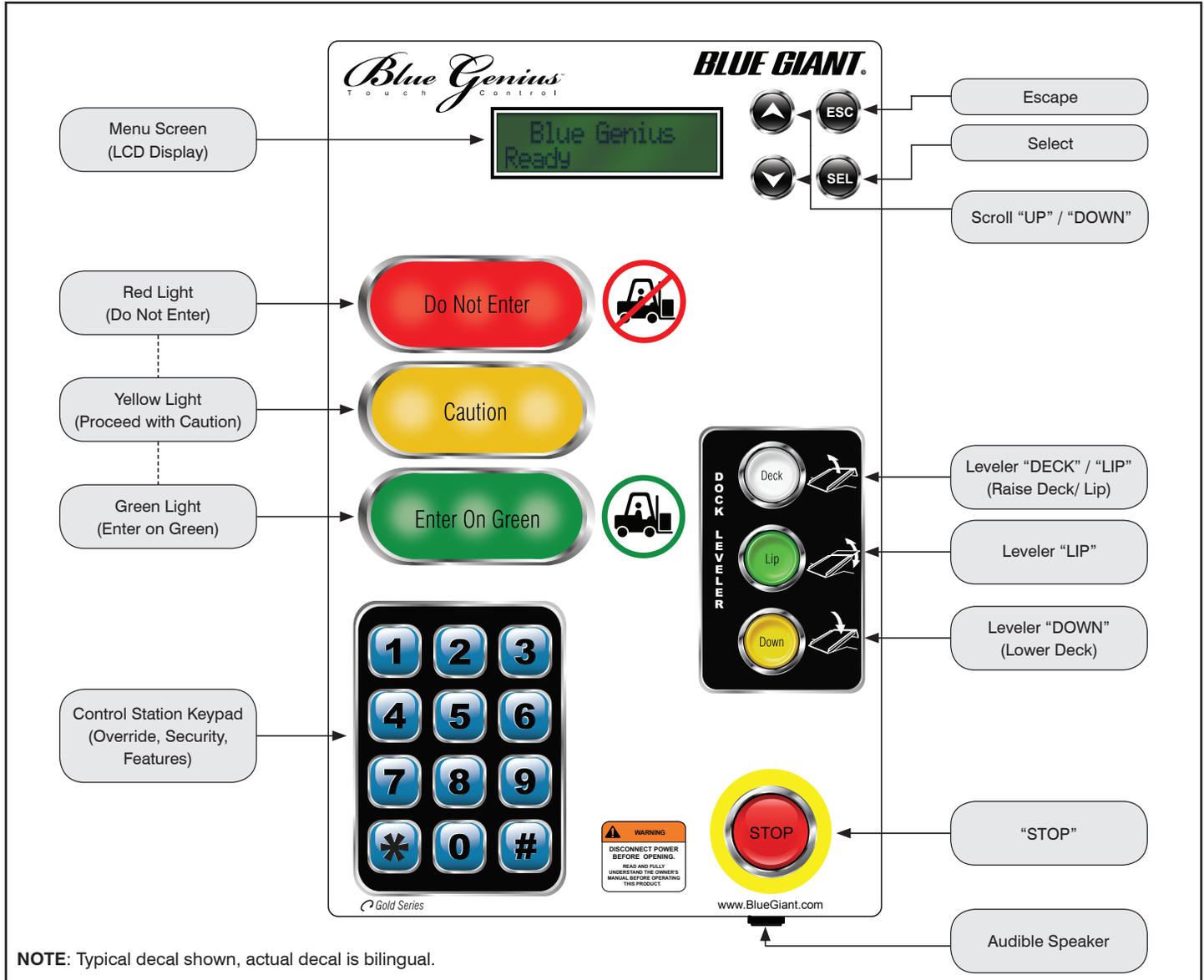


Approved way to lockout / tagout.

## 5.0 CONTROL PANEL OPERATION

### INDEPENDENT TYPE CONTROL PANEL

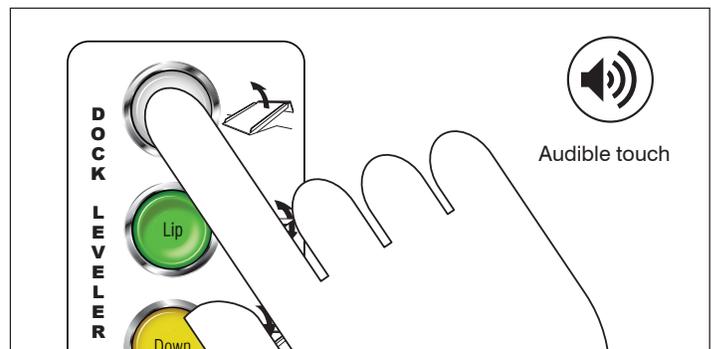
Controls one individual dock leveler only, equipped with touch buttons, inside forklift operator traffic lights, operator menu screen, and keypad for coded features.



### 5.1 BUTTON FUNCTION

When touching any of the function buttons or keypad, use the ball of the finger. The control station's unique touch sensors detect the proximity of the dock operator's finger. Audible touch buttons and keypad on the Blue Genius™ provide instant sound feedback to user input.

The 'Deck,' 'Lip,' and 'Down' buttons require constant contact to activate their respective functions.



## 6.0 SAFETY STAND AND MAINTENANCE STRUT SET-UP

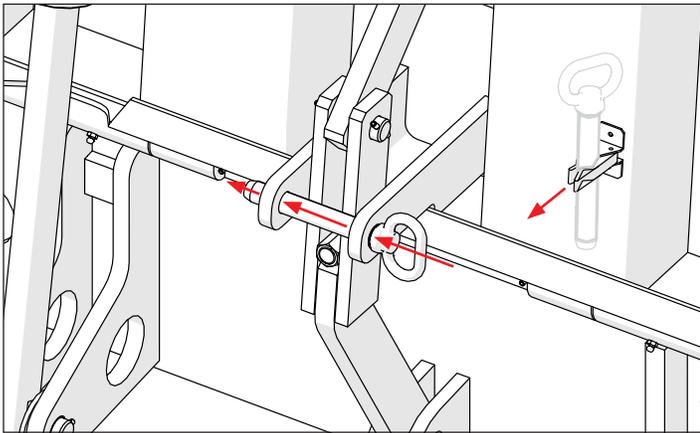
### DANGER

Never work in the path of the dock leveler platform without engaging the safety stand and/or maintenance strut. If you are unable to successfully engage the device, contact your authorized service representative or the manufacturer.

### WARNING

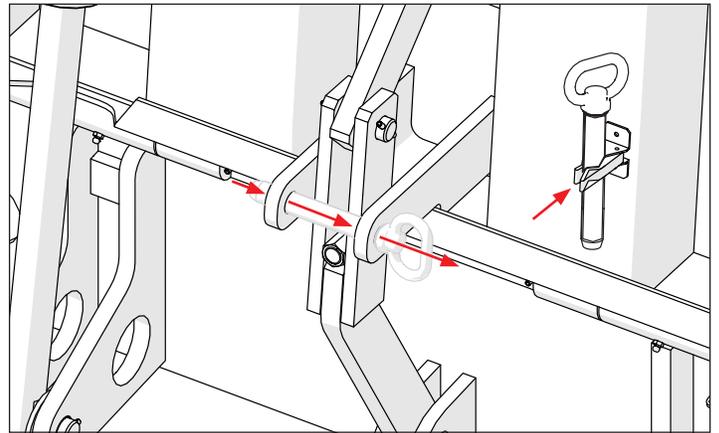
Post safety warnings and barricade work area at dock level and at ground level to prevent unauthorized use of the dock leveler during maintenance/service.

### 6.1 ENGAGING THE SAFETY STAND



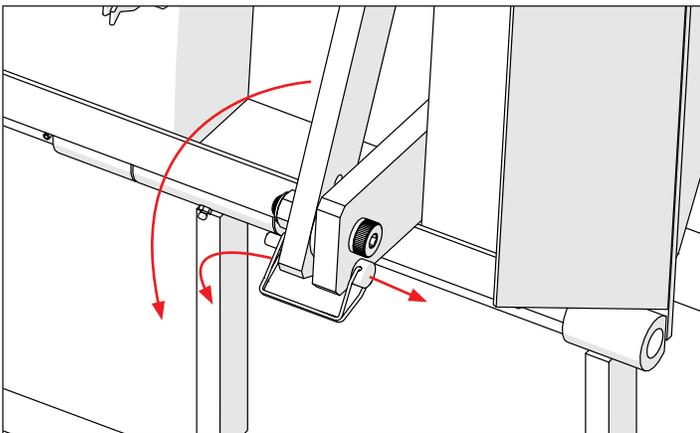
1. Standing at a safe position next to the dock leveler, carefully remove the lock pin (part # 013-077) from its holder (part # 013-537).
2. Slide the lock pin through the bracket holes.
3. The safety stand is now engaged.

### 6.2 DISENGAGING THE SAFETY STAND



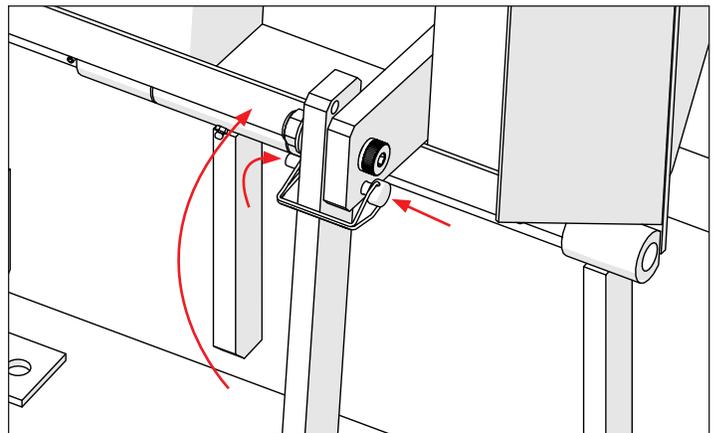
1. When all work is complete, return to a safe position next to the dock leveler and carefully pull out the lock pin.
2. Return the lock pin to its holder.
3. The safety stand is now disengaged.

### 6.3 ENGAGING THE MAINTENANCE STRUT



1. Standing at a safe position next to the dock leveler, carefully remove the lynch pin (part # 013-078).
2. Lower the maintenance strut to the engaged position and reinsert the lynch pin.
3. The maintenance strut is now engaged.

### 6.4 DISENGAGING THE MAINTENANCE STRUT



1. When all work is complete, return to a safe position next to the dock leveler and carefully pull out the lynch pin.
2. Raise the maintenance strut to the disengaged position and return the lynch pin to its holder.
3. The maintenance strut is now disengaged.

## 7.0 MAINTENANCE



### WARNING

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

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

Follow proper lock-out/tag-out procedures.

Keep hands and feet clear of dock leveler pinch points and wear appropriate safety attire – safety glasses, gloves and work boots.

The maintenance strut and safety stand must be in place before commencing maintenance procedures.

### 7.1 PLANNED MAINTENANCE PROGRAM (PMP)

In addition to the Daily Maintenance Procedures (DMP), the manufacturer recommends (and local government regulations may require) that a Planned Maintenance Program (PMP) and safety inspection program be performed by a trained and authorized service technician on a regular basis to ensure the equipment is in safe operating condition. The PMP will provide an opportunity to make a thorough inspection of the safety and operating condition of the dock leveler. Necessary adjustments and repairs can be done during the PMP, which will increase the life of components and reduce unscheduled downtime.

Recommended procedures for a periodic planned maintenance program that covers inspections, operational checks, cleaning, lubrication, and minor adjustments are outlined in the Installation and Technical manual for this product.

An authorized dealer or distributor is prepared to assist with a planned maintenance program by offering trained service personnel with expertise in dock leveler maintenance requirements.

### 7.2 OPERATOR DAILY INSPECTION

The dock leveler should always be examined by the operator PRIOR TO ANY USE to verify that it is safe to operate.

The manufacturer recommends making multiple photocopies of the DMP Checklist (See Section 7.7). The operator should fill out this form to keep a daily record of operation and maintenance issues.

### 7.3 ROUTINE SERVICING AND MAINTENANCE

Regular maintenance and care of the dock leveler is very important for cost and operation efficiency and more importantly; operator safety. A faulty dock leveler is a potential source of danger to the operator, and to other personnel working near it. As with all quality

equipment, keep the dock leveler in good operating condition by following the recommended schedule of maintenance.

Failure to properly maintain or operate the dock leveler within its rated capacity can void the manufacturer warranty.

### 7.4 PLANNED MAINTENANCE PROGRAM INTERVALS

Arrange for a qualified dock leveler repair technician to perform regularly scheduled planned maintenance on your dock leveler every three months for single shift operations or monthly for multi-shift operations. Call your authorized manufacturer / dealer for further details.

### 7.5 MAINTENANCE SEQUENCE

1. Cleaning, including pit area
2. Visual inspection of all components
3. Lubrication, as required (by a trained service technician only)
4. Test operate all functions
5. Adjustments, if required (by a trained service technician only)
6. Check for missing or damaged dock bumpers
7. Record inspection details and findings for owners' files

### 7.6 RECOMMENDED HYDRAULIC FLUIDS

The unit is shipped with Petro-Canada Hydrex MV22 hydraulic oil unless otherwise optioned.

#### Normal, All Season Weather Conditions:

Valvoline All Weather 36 or equivalent.

**NOTE:** Dextron II Automatic Transmission Fluid may be used if other suitable oils are not available.

#### Extreme Low Temperature Conditions:

Esso Univis N15 or Gulf Harmony Arctic 15 or suitable equivalent.

**Biodegradable:** Esso Univis Bio 40 or suitable equivalent.

### 7.7 DAILY MAINTENANCE PROCEDURES CHECKLIST - VL VERTICAL STORING DOCK LEVELER

INSPECTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

SERIAL #: \_\_\_\_\_ DOOR #: \_\_\_\_\_

Forward this checklist to the person responsible for dock equipment maintenance. See Section 1.1 "Owner's Purchase Record" for Date in Service.

INSTRUCTIONS FOR USE: Indicate "OK for USE" with a check mark ✓ in the appropriate box of each inspection point.

**EVERY DAY (MAY BE PERFORMED BY OWNER OR ATTENDANT):**

- Remove any debris that may have accumulated around the dock equipment
- Verify complication-free operation of the dock equipment and the interior and exterior lights system (if installed)
- Verify that outside signage is present and legible (if equipped)
- Verify complication-free operation of the Blue Genius™ Control Panel
- Verify that dock bumpers/risers are in working condition
- Check backframe for irregularities (e.g. concrete cracks)
- Verify that the maintenance strut and safety stand are functional
- Verify that instructional caution and danger labels are present and legible on the product. Replace if necessary

**PHOTOCOPY THIS CHECKLIST AND FILL OUT REGULARLY FOR YOUR RECORDS.**

Explain faults briefly in the space provided below:

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 <b>DANGER</b>
When repairing or conducting maintenance procedures on electrical components, perform lockout / tagout steps according to OSHA regulations and approved electrical codes.

 <b>DANGER</b>
Prior to installation, place adequate barriers to prevent unauthorized personnel and vehicle traffic from entering the work area.

 <b>WARNING</b>
All repairs and maintenance work are to be conducted by trained and authorized personnel ONLY.

**8.0 OPERATING INSTRUCTIONS**

WARNING

Do not operate this leveler unless you have been trained and authorized to do so, and have read and understood all of the safety information and instructions contained herein.

Do not operate the dock leveler beyond its rated capacity.

Do not operate this leveler until you have checked its condition. Report the need for repairs to your supervisor immediately and do not operate the unit 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 manually.

Do not drive on the leveler unless the lip is securely on the truck bed and has a minimum of 4" (102mm) overlap on its surface.

Do not exceed 4 mph when driving over the dock leveler.

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

OPERATING INSTRUCTIONS  
Only for the VL Vertical Storing Dock Leveler with Blue Genius™ Touch Control

<b>A</b> 	<b>Deck Lowering</b> 	<b>DEPLOYING THE DOCK LEVELER</b> <ol style="list-style-type: none"> <li>1. Touch and hold the 'Down' button. The menu screen will read 'Deck Lowering.' The control panel light is RED and the exterior traffic light (optional) turns from GREEN to RED. If performing Below Level/End Loading, begin step C now.</li> <li>2. Continue holding the 'Down' button until the lip makes full contact with truck bed. Release the button. The menu screen will read 'Deck Deployed.' The control station light will turn GREEN when in working range while the exterior traffic light remains RED.</li> <li>3. Loading/unloading may now begin. Ensure that the full width of the lip overlaps the truck bed a minimum of 4" (102 mm) for full support.</li> </ol>
<b>B</b> 	<b>Deck Raising</b> 	<b>RETURNING THE DOCK LEVELER TO STORED POSITION</b> <ol style="list-style-type: none"> <li>1. To return the dock leveler to the stored position, hold the 'Deck' touch button until the deck and lip are fully raised. The menu screen will read 'Deck Raising.' The control station light changes to RED and the exterior traffic light remains RED. When the dock has reached the home position, the exterior traffic light turns GREEN.</li> </ol>
<b>C</b> 	<b>Lip Lowering</b> 	<b>BELOW LEVEL / END LOADING</b> <ol style="list-style-type: none"> <li>1. After completing Step A (1), touch and hold the 'Lip' button. The menu screen will read 'Lip Lowering.' The control station light is RED, the exterior traffic light remains RED. Release the 'Lip' button when the lip reaches stored position.</li> </ol>
<b>D</b> 	<b>STOP Button Function</b> 	<b>STOP BUTTON FUNCTION</b> <ol style="list-style-type: none"> <li>1. Touching the 'STOP' button during dock operation will cause the unit to stop in mid motion while the internal alarm will beep until the stop function is exited. To exit the 'STOP' mode touch 'ESC'.</li> </ol>

⚠ DANGER

1. Only trained and authorized personnel may operate this dock leveler.
2. Read, understand, and follow the instructions on this document.
3. Prior to using the dock leveler:
  - Ensure that the dock leveler is free and clear of all debris, snow and ice.
  - Ensure that all personnel near the dock leveler are aware that it is being operated.
  - Operate the dock leveler through one complete cycle to confirm that it is functioning properly. If the dock leveler is equipped with a communications package, confirm that the lights are working as required.
  - Inspect unit for signs of structural damage or mechanical malfunction. If damage is observed or the restraint fails to operate properly, remove it from service and notify maintenance personnel immediately.
4. When using the dock leveler:
  - Confirm that the transport vehicle has been properly restrained.
  - Keep hands and feet clear of pinch points.
  - If the dock leveler is equipped with a light communication package, load and unload on green only.
  - Do not exceed the rated capacity as indicated on the serial plate.
  - Do not leave equipment or material unattended on the dock leveler.
  - Keep a safe distance from both edges.
  - If dock leveler fails to operate as outlined in the accompanying manual's operating instructions, refer to the Troubleshooting section.
5. If service or maintenance is required:
  - Only authorized service personnel shall maintain or service the unit.

APPLIES TO ALL DOCK LEVELERS

BLUE GIANT, www.BlueGiant.com
038-099E

VL Vertical Storing Dock Leveler operation placard—part # 038-099E.

**8.1 FUNCTIONAL DESCRIPTION**

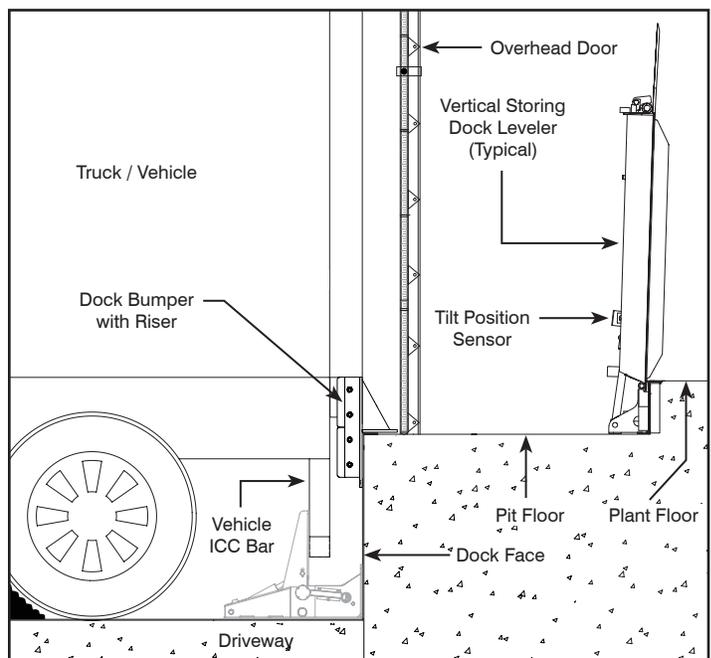
The dock leveler is stored in the vertical position behind the overhead door, allowing for a complete energy efficient seal. The vertical storing dock includes a "controlled lowering" hydraulic system, meaning that the dock attendant must hold the touch button to lower the unit. Key features include: high tensile steel, U-beam deck construction, hydraulic fall-safe, maintenance strut and a self-locking device.

EXTERIOR TRAFFIC LIGHT (OPTIONAL)

Exterior red / green traffic lights advise the truck driver when it is safe to depart.

INSIDE COMMUNICATION LIGHTS & CONTROL PANEL

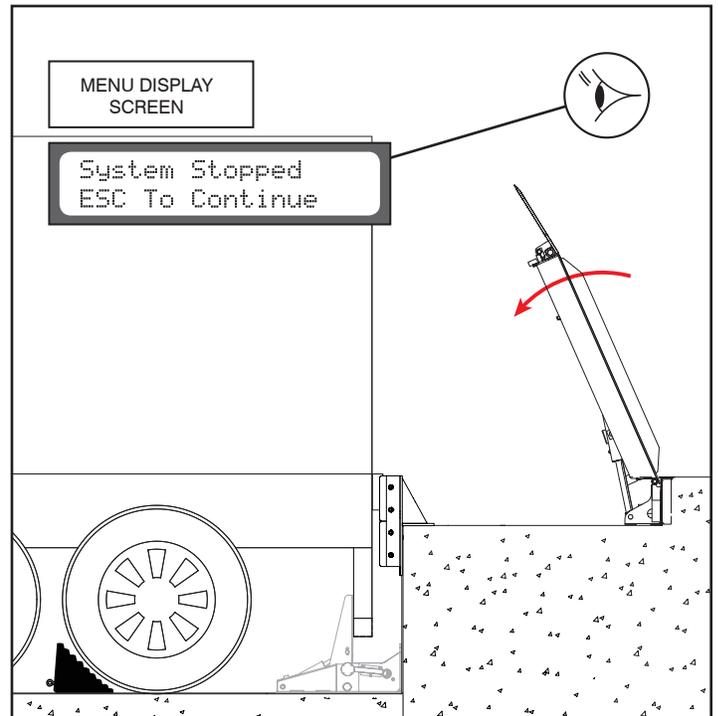
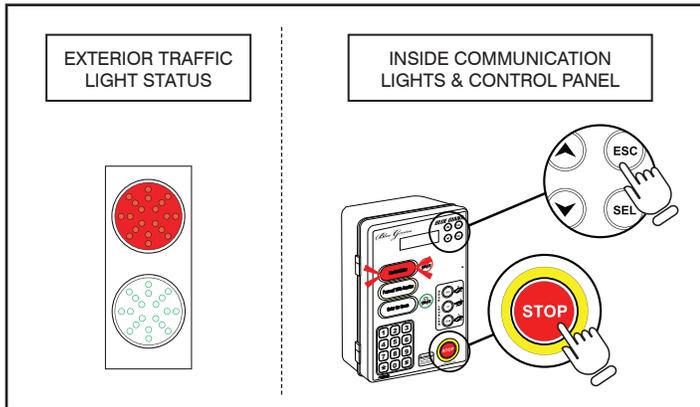
Red / yellow / green control station lights keep forklift operators and warehouse personnel advised of safety conditions at the loading dock.



## ADVANCED SAFETY FEATURES

### 8.2 STOP BUTTON FUNCTION

Should an unexpected interference occur or potentially dangerous situation arise, the Blue Genius™ control panel has a temporary 'STOP' button. Touching the 'STOP' button during operation will cause the unit to stop in mid motion and the internal alarm will beep until the stop function is exited. The control panel light will flash RED and the exterior traffic light will be RED. To exit the 'STOP' mode touch the 'ESC' button.

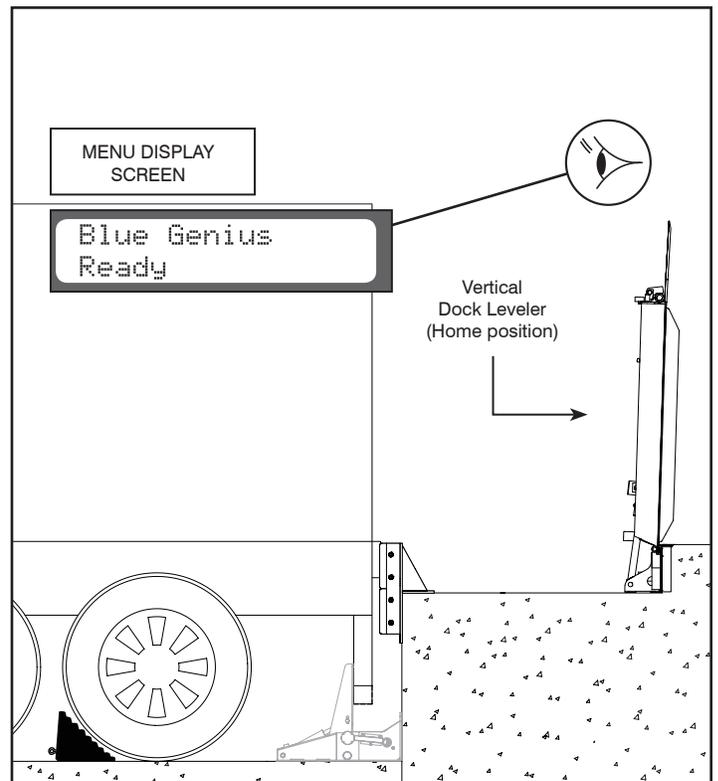
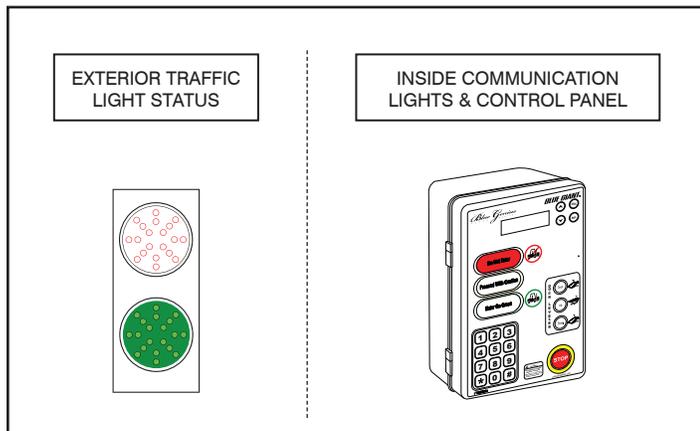


## STANDARD OPERATION PROCEDURES

### 8.3 STARTING PROCEDURE

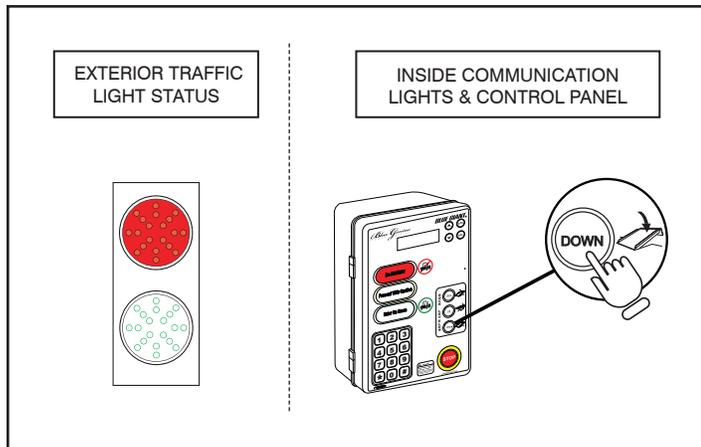
The operating instructions in this manual include references to the advanced communication lights package (control panel and traffic lights.) This is an optional feature and may not be included with your dock leveler.

The truck reverses into position against the dock leveler bumpers. Exterior traffic light is GREEN and control panel light remains RED.

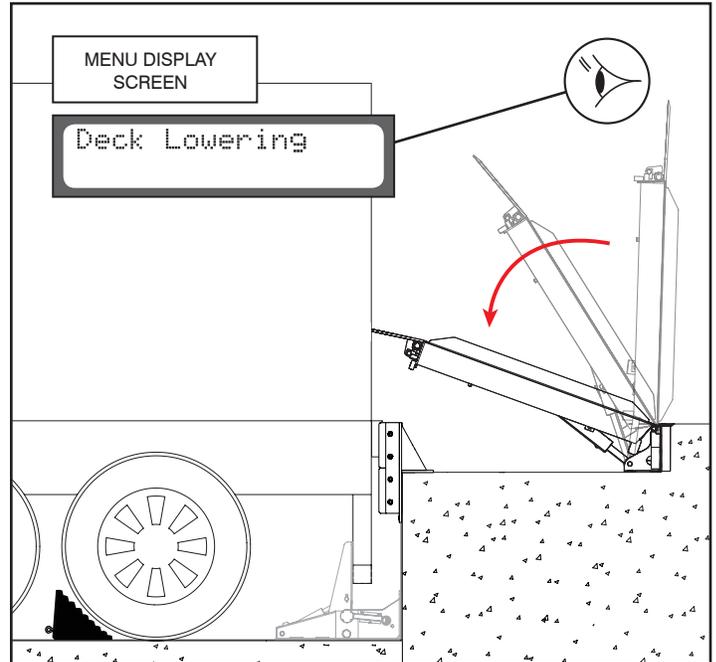


### 8.4 DEPLOYING THE DOCK LEVELER

After verifying that the vehicle is properly restrained, touch and hold the 'Down' button until the leveler reaches its operating range and then it will begin to fall by itself. If the deck needs to be stopped during its descent, touch the STOP button. The menu screen will read 'Deck Lowering'. Both the control panel and exterior traffic light are RED.



**NOTE:** If deployment is paused mid-cycle, the audible alarm will sound.

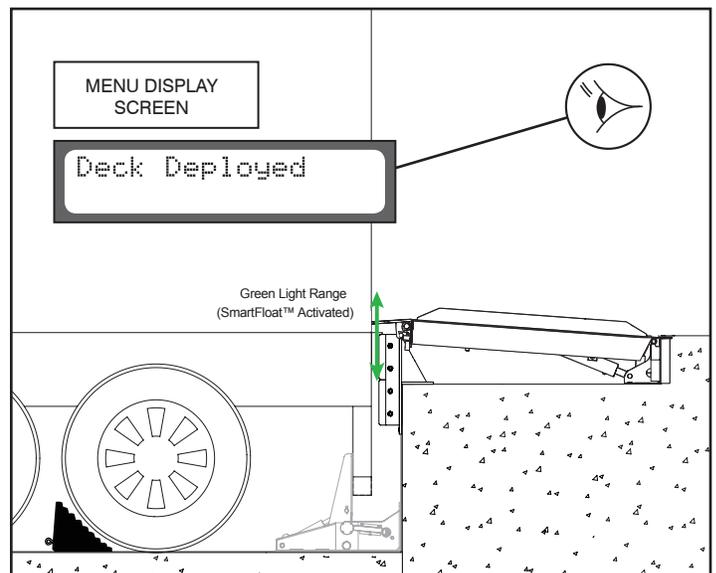
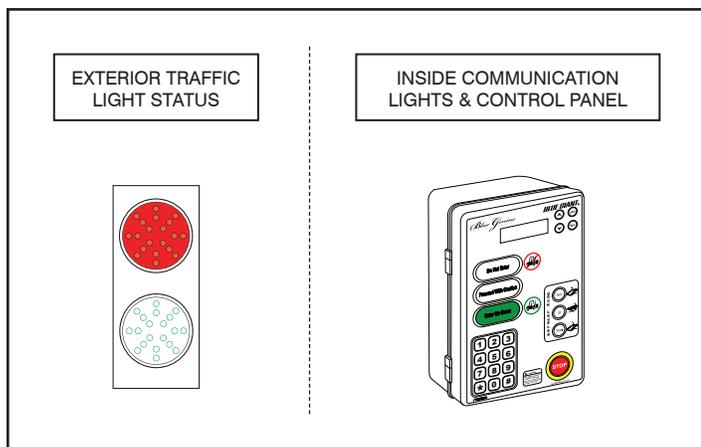


### 8.5 DEPLOYED ON TRAILER

1. When the deck is properly deployed, the exterior traffic light stays RED and the control panel light changes to GREEN, advising dock staff that the vehicle is now accessible. The menu screen will read 'Deck Deployed'.
2. When deployed, ensure that all personnel and equipment is clear of the transport vehicle and the dock leveler.

**NOTE:** Ensure that the full width of the lip overlaps the truck a minimum of 4" (102 mm) to provide full dock leveler support.

**NOTE:** While in use, the dock leveler raises and lowers automatically in conjunction with the movement of the truck bed.



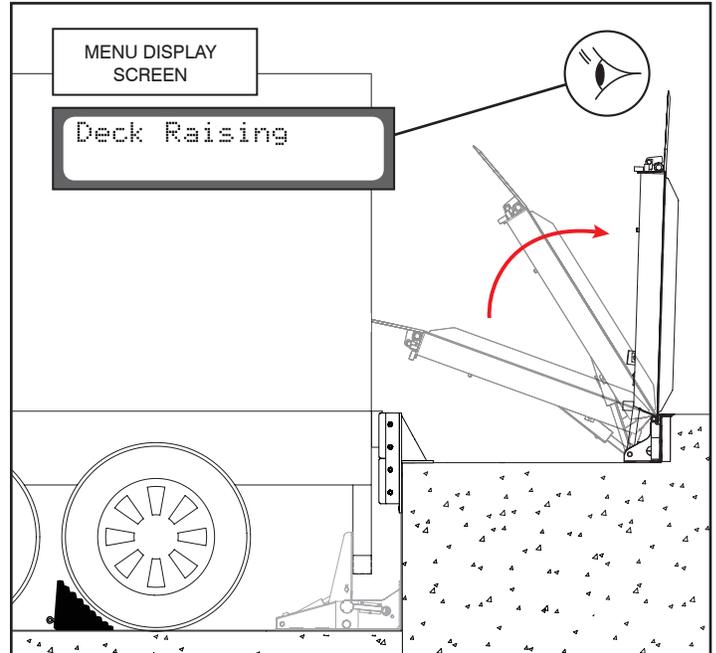
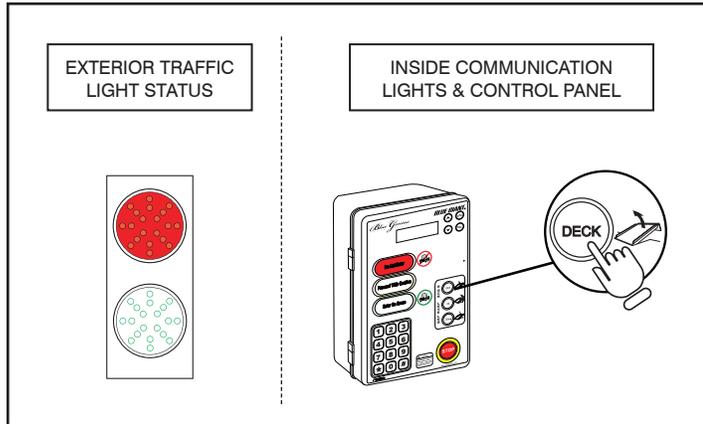
## PERFORM LOADING AND UNLOADING

## PERFORM LOADING AND UNLOADING

### 8.6 RETURNING DOCK LEVELER TO THE HOME POSITION

To return the dock leveler to home position, maintain pressure on the 'Deck' button until the deck and lip are fully raised. The menu screen will read 'Deck Raising'. The control panel light changes to RED and the exterior traffic light remains RED. When the dock has reached the home position, the exterior traffic light turns GREEN.

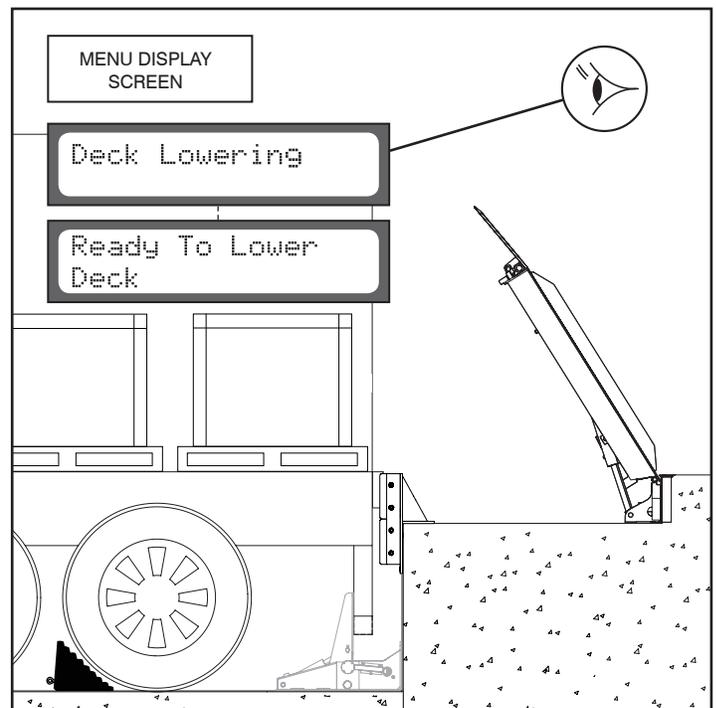
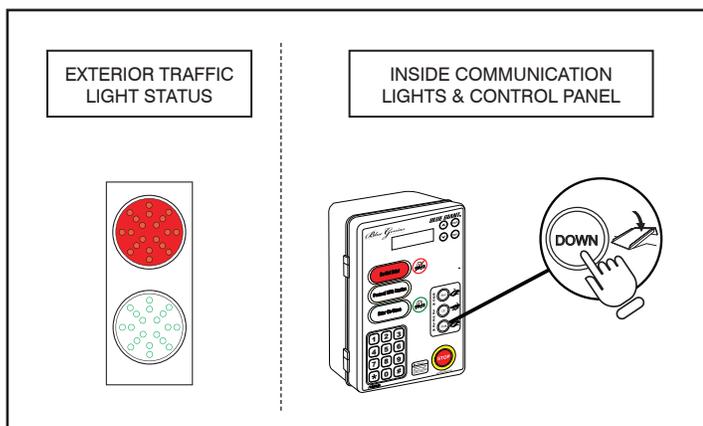
**NOTE:** If the lip is not completely extended, keep holding 'Deck' button and the controls will switch to lip function, extending the lip.



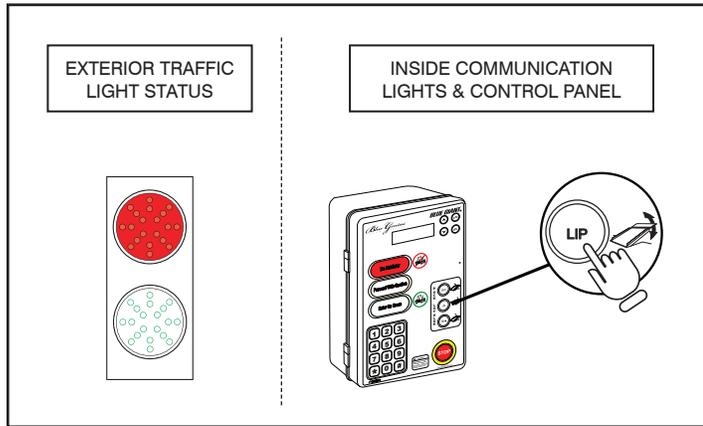
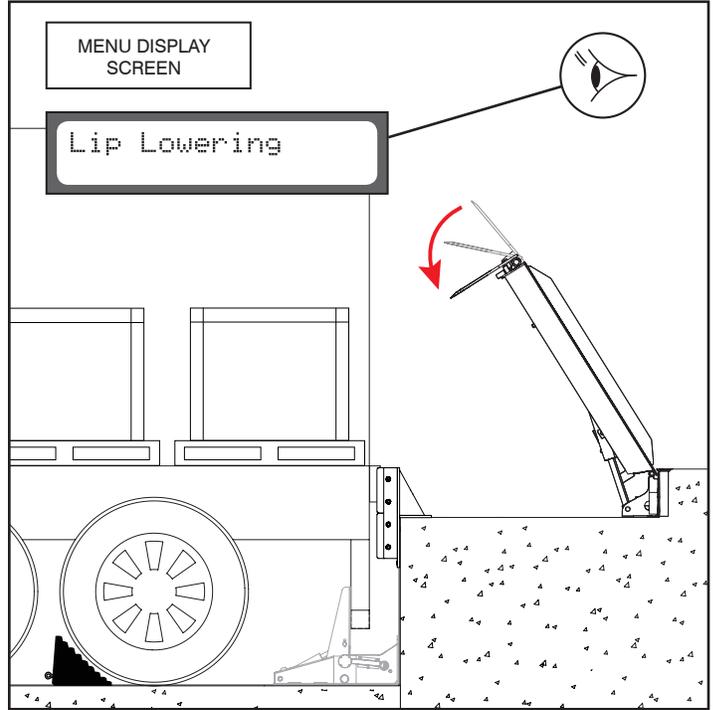
### 8.7 DEPLOYING THE DOCK LEVELER: BELOW LEVEL / END LOADING

If the dock leveler lip cannot be successfully deployed onto the truck bed, please follow the steps below for below level / end loading.

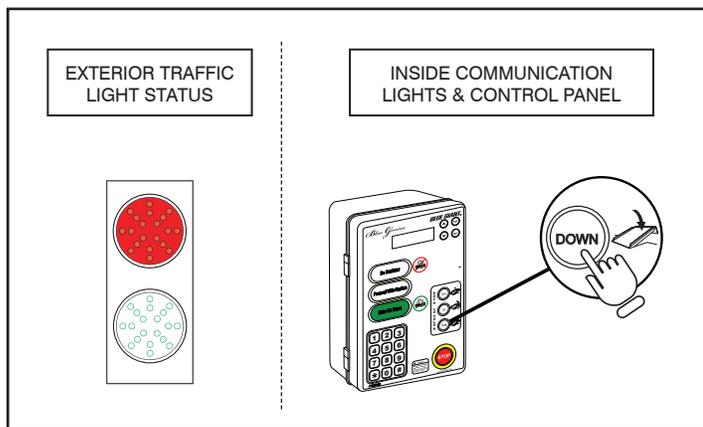
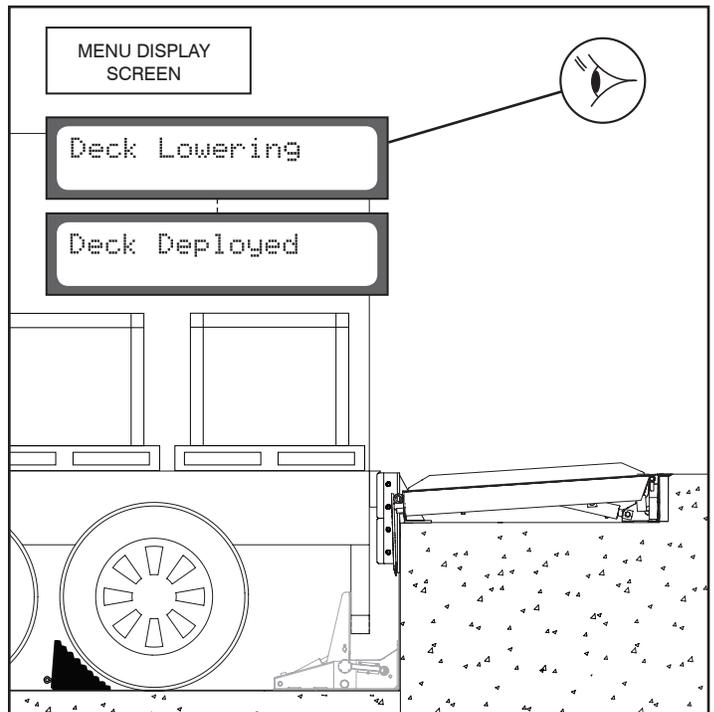
1. Touch and hold the 'Down' button. The menu screen will read 'Deck Lowering'. When the deck is halfway down, release the 'Down' button. The menu screen will read 'Ready to Lower Deck'.



2. Touch and hold the 'Lip' button. The menu screen will read 'Lip Lowering'. The control panel light is RED, the exterior traffic light remains RED. Release the 'Lip' button when the lip reaches pendant position.

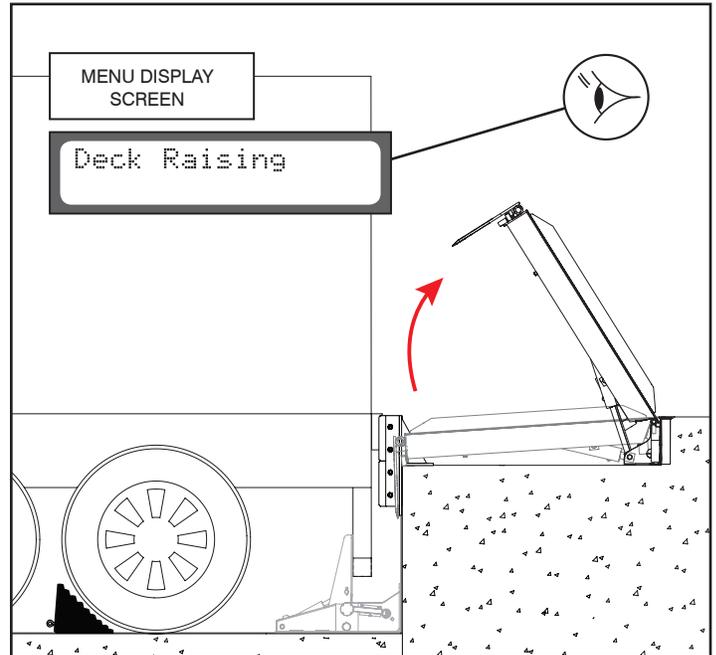
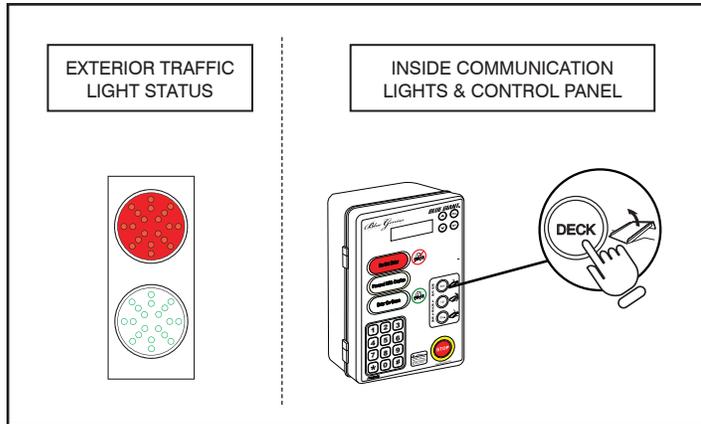


3. With the lip lowered, touch and hold the 'DOWN' button. The deck will lower to the below level working position. The menu screen will read 'Deck Lowering'. The control panel light changes to GREEN when the leveler is in the below level position and exterior traffic light remains RED. The menu screen will read 'Deck Deployed'.

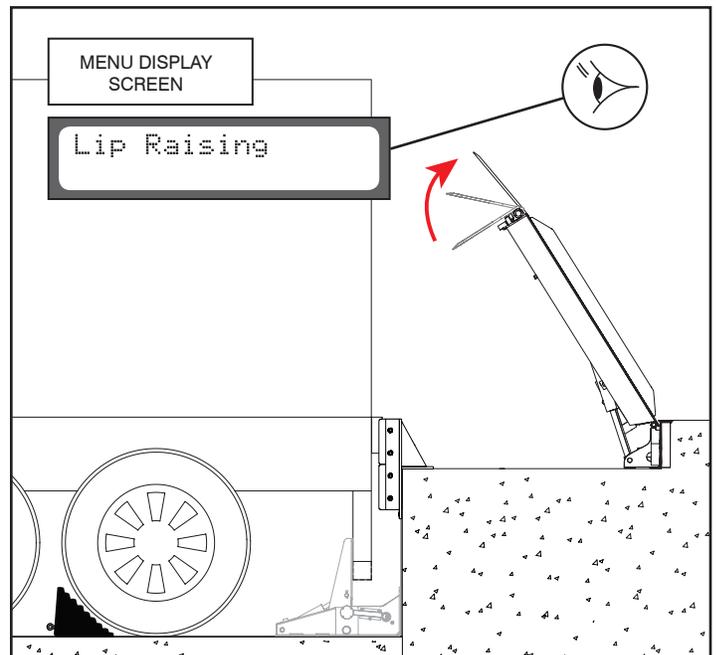
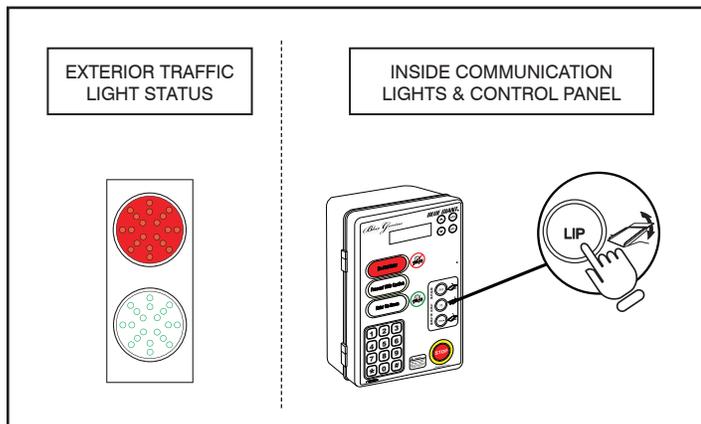


### 8.8 RETURNING TO NORMAL LIP-ON TRAILER OPERATION

1. Touch and hold the 'Deck' button until the deck and the edge of the lip are raised above the top surface of the truck bed. The control panel light changes to RED, the exterior traffic light remains RED. The menu screen will read 'Deck Raising'.



2. Release the 'Deck' button. Touch and hold the 'Lip' button until the lip is fully extended. The menu screen will read 'Lip Raising'. Release the 'Lip' button.
3. Release the 'Lip' button.



4. To continue, see Section 8.4 "Deploying the Dock Leveler" and 8.5 "Deployed on Trailer."


WARNING

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

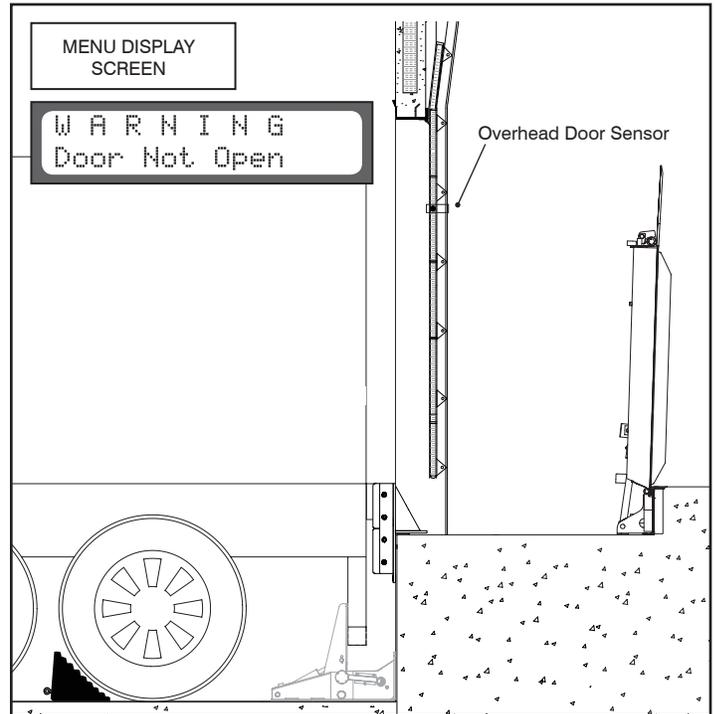
## 9.0 OVERHEAD DOOR INTERLOCK

### 9.1 OVERHEAD DOOR SENSOR (OPTIONAL)

The overhead door sensor is optional with all hydraulic dock levelers. The function of the overhead door sensor is to protect the shipping / receiving door from accidental deployment of the dock leveler onto a closed or partly open door.

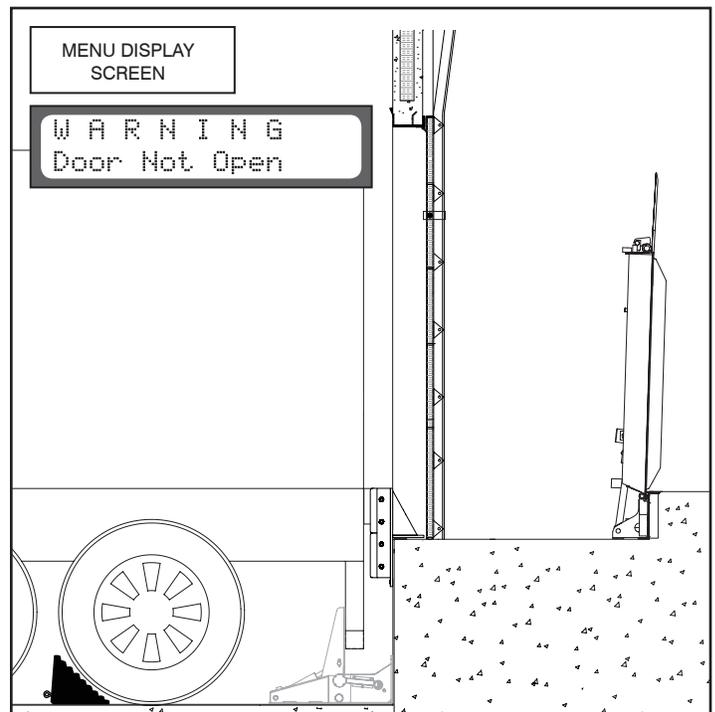
#### 9.1.1 OVERHEAD DOOR NOT FULLY OPEN

If the door is not fully opened, the door sensor will not allow the Blue Genius™ control panel to operate the leveler. The control panel menu screen will read 'WARNING Door Not Open', the alarm (optional) will beep and the leveler will not move until the door has been opened past the door sensor range.



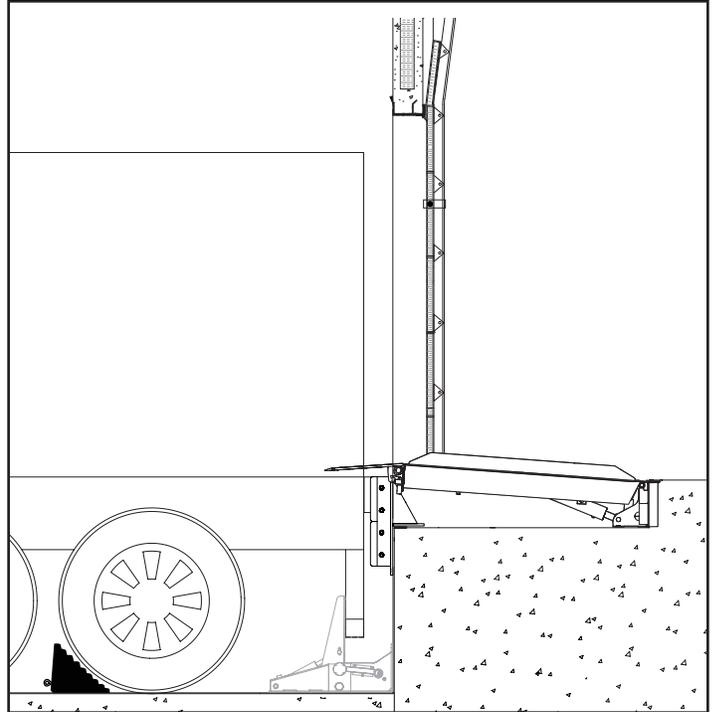
#### 9.1.2 OVERHEAD DOOR CLOSED DURING OPERATION

If the door is closed while the dock is deploying, the door sensor will stop the dock leveler in position. The control panel menu screen will read 'WARNING Door Not Open' and the alarm will beep. Until the door has been opened past the door sensor, the leveler will not move.



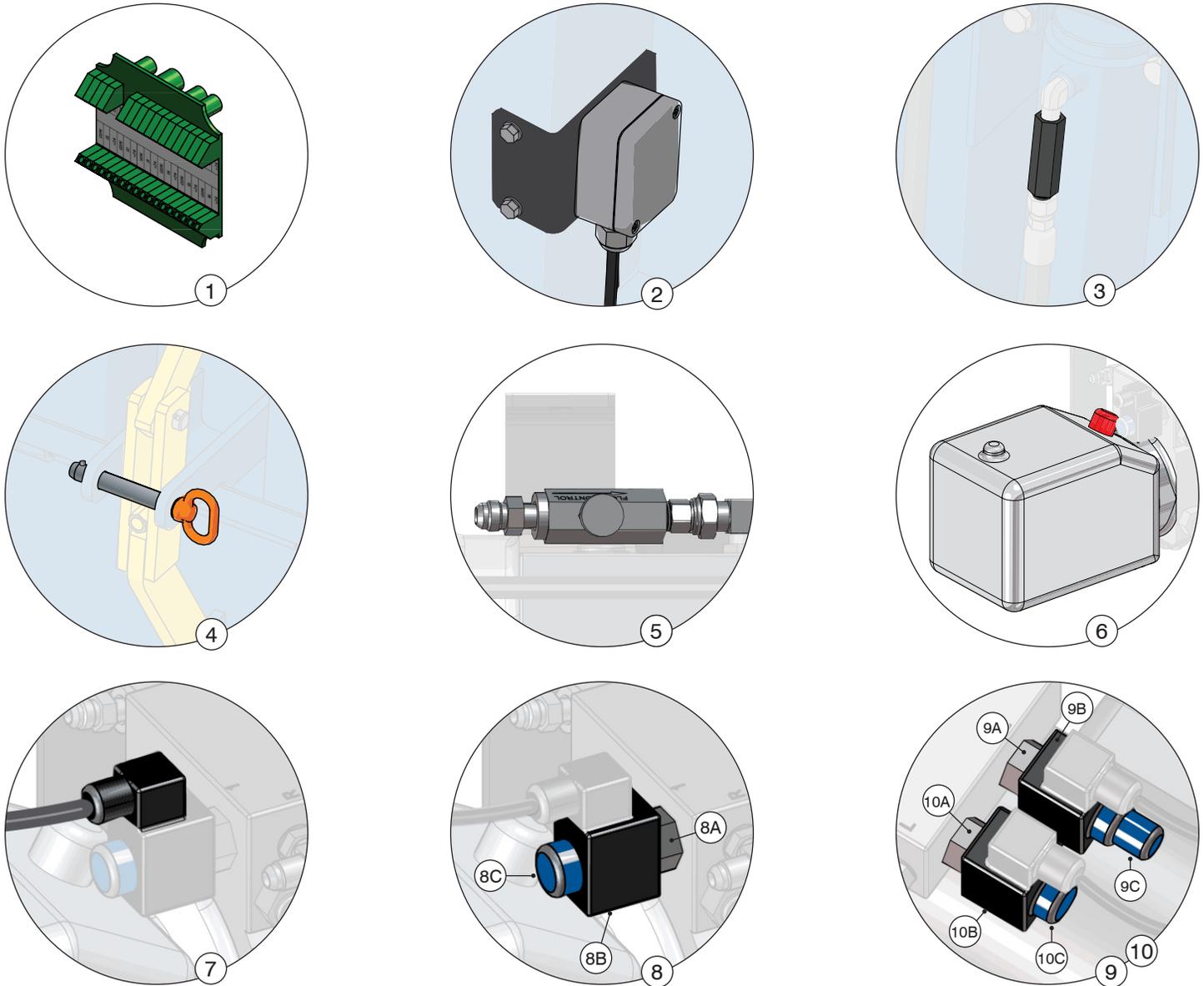
**9.1.3 OVERHEAD DOOR CLOSED WHILE DOCK IS DEPLOYED**

If the door is closed when the leveler is on the load bed or below level, the control station light will change from GREEN to RED and the alarm will beep. Until the door has been opened past the door sensor range, the leveler will not move.



10.0 RECOMMENDED SPARE PARTS

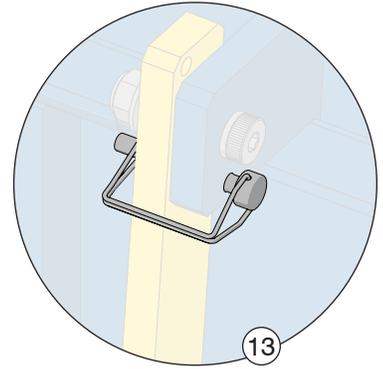
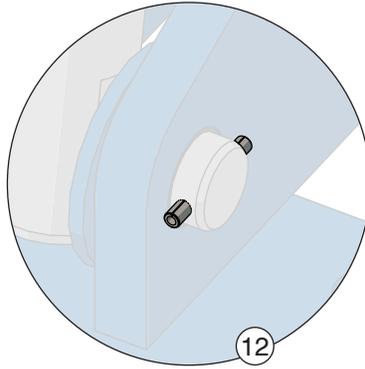
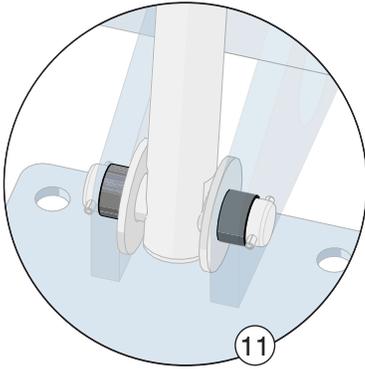
10.1 STANDARD OPERATIONAL COMPONENTS



RSP FOR VL – STD OPERATIONAL COMPONENTS			
ITEM	PART NO.	DESCRIPTION	QTY REQ'D
1	026-G025BM	Remote I/O Board (No Resistor)	1
2	026-G024-A	IntelliTilt™ Sensor Assembly	1
3	033-661	Velocity Fuse	1
4	013-077	Safety Stand Lock Pin w/ Ball Plunger	1
5	080-511	Deck Flow Control - VL Powerpack	1
6	080-510	Reservoir Kit - VL Powerpack	1
7	026-G074	Solenoid Valve Connector with Cable	1

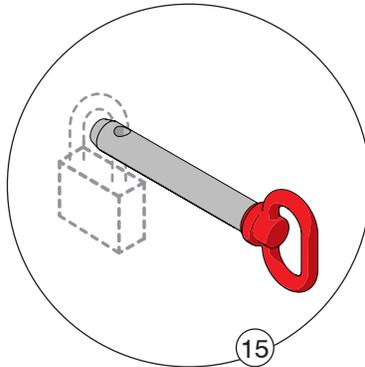
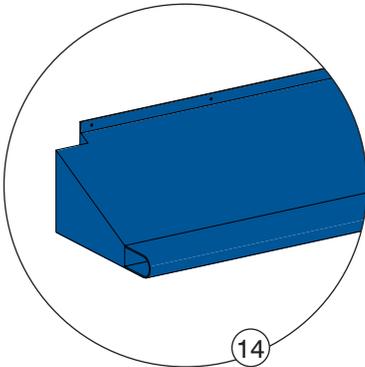
RSP FOR VL – STD OPERATIONAL COMPONENTS			
ITEM	PART NO.	DESCRIPTION	QTY REQ'D
8	080-K001	SV1 Kit	8A: 080-513 - Dir. Valve
			8B: 080-515 - 24VDC Coil
			8C: 033-508-1N Nut
9	080-K002	SV2 Kit	9A: 080-512 - Deck Valve
			9B: 080-525 - 24VDC Coil
			9C: 033-508-1C Cap
10	080-K003	SV3 Kit	10A: 080-516 - Lip Valve
			10B: 080-525 - 24VDC Coil
			10C: 033-508-1N Nut

**10.1 STANDARD OPERATIONAL COMPONENTS CONT'D.**



RSP FOR VL – STD OPERATIONAL COMPONENTS			
ITEM	PART NO.	DESCRIPTION	QTY REQ'D
11	018-050	Bushings	2
12	013-127	3/16" Dia. Spring Pin x 1.50	8
13	013-078	Linch Pin 3/8" Dia. x 2-1/4" Usable	1

**10.2 OPTIONAL SUPPORT COMPONENTS**



RSP FOR VL (OPTIONAL)			
ITEM	PART NO.	DESCRIPTION	QTY REQ'D
14	23-013158-__	Draft Pad (Specify Door Width)	1
15	013-092	Lock-out/Tag-out Safety Stand Pin	1

11.0 DECAL IDENTIFICATION AND LOCATION

**7** **⚠ DANGER**

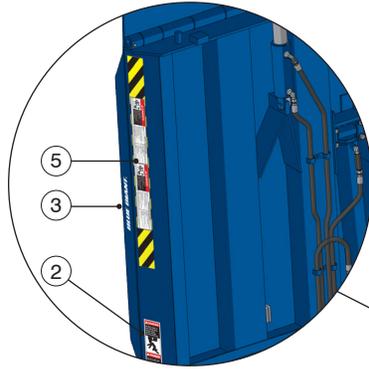
Do not remove the lock-out pin from the safety stand unless authorized personnel have confirmed that the hydraulic cylinders, valves and hoses have been properly installed and bleed with fluid. Failure to do so will result serious injury or death. Refer to Owner's Manual for proper procedure.

Ne pas retirer le piquet de verrouillage de la station à moins que des personnes autorisées n'aient confirmé que les cylindres hydrauliques, vannes et les hoses ont été correctement installés et vidés avec du fluide hydraulique. Ne pas le faire peut entraîner une blessure grave ou la mort. Consultez le manuel de propriétaire pour les procédures appropriées.

**8** **⚠ DANGER**

Do not remove the lock-out pin from the maintenance area unless authorized personnel have confirmed that the hydraulic cylinders, valves and hoses have been properly installed and bleed with fluid. Failure to do so will result serious injury or death. Refer to Owner's Manual for proper procedure.

Ne pas retirer le piquet de verrouillage de la zone de maintenance à moins que des personnes autorisées n'aient confirmé que les cylindres hydrauliques, vannes et les hoses ont été correctement installés et vidés avec du fluide hydraulique. Ne pas le faire peut entraîner une blessure grave ou la mort. Consultez le manuel de propriétaire pour les procédures appropriées.



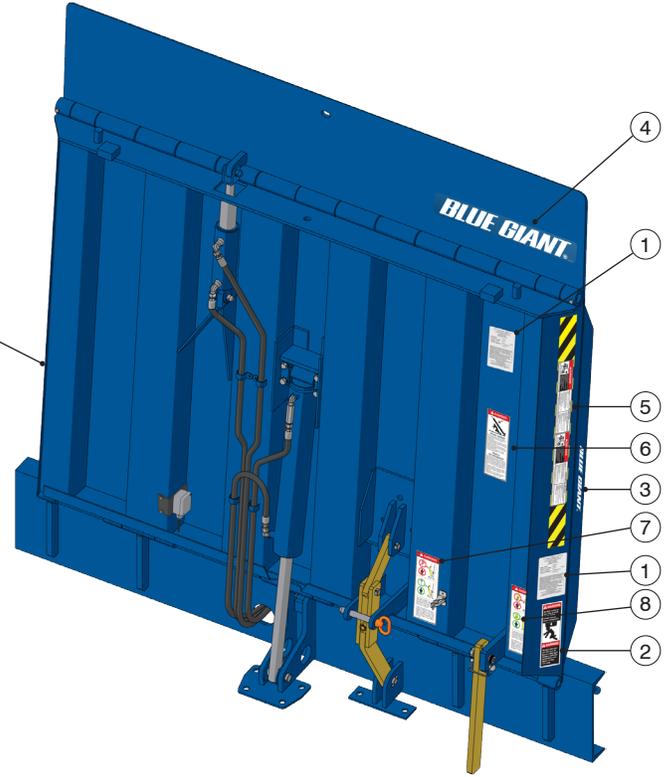
**6** **⚠ DANGER**

**CRUSH HAZARD**

Indicate being any vehicle, object, or equipment work with the dock leveler and engage the pin on the safety stand and hold it on the maintenance area. Do not use the hydraulic system to adjust leveling pads. Do not stand in front of the leveler when raising the pads from the site. Do not touch the pins of the safety stand and do not touch the pins of the dock leveler. Do not touch the pins of the dock leveler and do not touch the pins of the dock leveler.

**RISQUE D'ÉCRASEMENT**

Avant d'effectuer toute réparation, réparation, ou travail d'entretien, indiquez à l'opérateur que vous engagez le piquet de verrouillage sur le support de sécurité et maintenez-le en position verrouillée. Ne pas utiliser le système hydraulique pour ajuster les patins de nivellement. Ne pas se tenir devant le niveleur lorsque vous le soulevez de son emplacement. Ne pas toucher les broches de la station à moins que des personnes autorisées n'aient confirmé que les cylindres hydrauliques, vannes et les hoses ont été correctement installés et vidés avec du fluide hydraulique. Ne pas le faire peut entraîner une blessure grave ou la mort. Consultez le manuel de propriétaire pour les procédures appropriées.



**5** **⚠ DANGER**

Unsupported dock leveler ramps can lower unexpectedly. Before allowing vehicle to leave the dock, always:

- Ensure no equipment, material or people are on dock leveler.
- Return dock leveler to its stored position at dock level.

Failure to follow posted instructions will result in death or serious injury.

**SAFETY INSTRUCTIONS**

**OPERATION**

1. Read and follow all instructions and warnings in user's manual.
2. Use of dock leveler restricted to trained operators.
3. Always check trailer wheels or engage trailer restraint before operating dock leveler or beginning to load or unload.
4. Never use hands or equipment to move spring or to...
5. Before activating dock leveler:
  - Remove any end loads if required.
  - Ensure trailer is backed in against bumpers.
  - Check trailer alignment to avoid tip interference. If tip does not lower to trailer bed, reposition vehicle.
  - 6. Ensure truck bed supports extended to or leveler frame supports ramp before driving on ramp.
7. Stay clear of hinges, front, and sides of moving dock leveler.
8. Never use damaged or malfunctioning dock leveler. Report problems immediately to supervisor.

**MAINTENANCE/SERVICE**

1. Read and follow all instructions, warnings and maintenance schedules in user's manual.
2. Maintenance/Service of dock leveler restricted to trained personnel.
3. Place barriers on driveway and dock floor to show service work is being performed.
4. DO NOT ENTER PIT unless dock leveler is securely supported by maintenance strut.
5. electrically powered turn off and use OSHA lockout/tagout procedures.

Un défaut de suivre ces instructions peut causer la mort ou des blessures graves.

**2** **⚠ DANGER**

Do NOT stand on this side of dock leveler. Dock leveler swings down toward you.

Ne restez PAS sur ce côté du quai niveleur. Le niveleur de quai s'abaisse vers l'avant.

**⚠ PELIGRO**

NO se pare en este lado del nivelador de muelle o andén. El nivelador de muelle o andén abre hacia abajo y hacia usted.

ITEM	QTY	PART NO.	DESCRIPTION
1	2	108-120	Decal - Serial Plate
2	2	038-230EFS	Decal - Danger Do Not Stand
3	2	038-218	Decal - Blue Giant - Large
4	1	038-219	Decal - Blue Giant - Small
5	2	038-226	Decal - Danger Safety Instructions
6	1	038-308	Decal - VL Crush Hazard
7	1	038-309	Decal - Danger Safety Stand Operation
8	1	038-310	Decal - Danger Maintenance Strut Operation

**1**

BLUE GIANT EQUIPMENT CORPORATION  
 85 Heart Lake Road South  
 Brampton, Ontario, Canada L6W 3K2  
 www.BlueGiant.com  
 MADE IN CANADA  
 FABRIQUE AU CANADA

MODEL / MODELE: VL6005-30  
 SERIAL NO. / NO. DE SERIE: 394517-03  
 CAPACITY / CAPACITE: 30,000 LB. 13,608 kg.  
 ELECTRICS / ALIMENTATION: 110-120V/1PH/50-60HZ  
 FALL SAFE CAP: FALL SAFE CAP  
 MFG / FAB: 11 / 2014 (MM / YYYY)

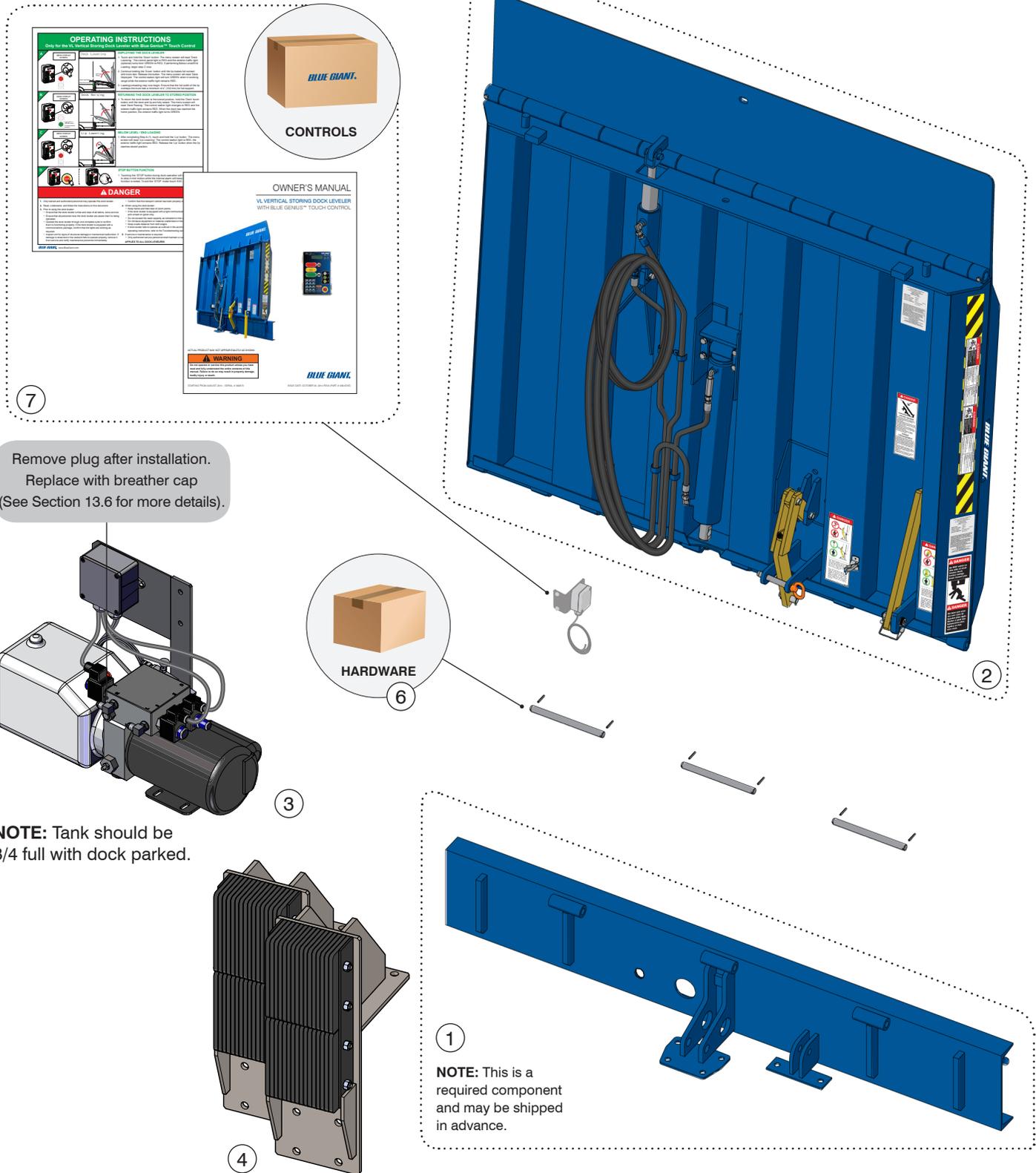
MODIFICATIONS AND ADDITIONS WHICH AFFECT CAPACITY AND SAFE OPERATION SHALL NOT BE PERFORMED BY THE CUSTOMER OR USER WITHOUT THE MANUFACTURER'S PRIOR WRITTEN APPROVAL. CAPACITY, OPERATION AND MAINTENANCE INSTRUCTION, PLATES, TAGS OR DECAL BE CHANGED ACCORDINGLY.

LE CLIENT OU L'UTILISATEUR N'AFFECTERA AUCUNE MODIFICATION OU ADJONCTION AVANT UNE INFLUENCE SURE LA CAPACITE ET LA SECURITE DE SERVICE SANS L'AUTORISATION ECRITE ET PREALABLE DU CONSTRUCTEUR. LES PLATES, PLAQUETTES OU DECALQUES D'INDICATION DE CAPACITE, D'UTILISATION

COMPLIES WITH ANSI MH001  
 CONFORMS TO ANSI MH001  
 \*REFER TO SAFETY AND OPERATING INSTRUCTIONS IN YOUR OWNERS MANUAL!  
 SE REFERER AUX CONSIGNES DE SECURITE ET D'OPERATION DANS VOTRE MANUEL D'INSTRUCTIONS\*

## 12.0 EQUIPMENT COMPONENT ILLUSTRATIONS

### 12.1 COMPONENTS AS SHIPPED CHECKLIST



**12.1 COMPONENTS AS SHIPPED CHECKLIST CONT'D.**

✓	ITEM	QTY	PART NO.	DESCRIPTION	APPROX. WEIGHT	
	1	1	23-014__ - __	Back Frame (See Section 13.3 for Sizes)	182 - 301 lb	83 - 137 kg
	2	1	—	Deck and Lip Assembly with Cylinder and Hoses	743 - 1378 lb	337 - 625 kg
	3	1	23-014530__	Powerpack (See Section 13.6 for Voltages)	34 lb	15 kg
	4	2	DB412WR12	Laminated Bumper with Bracket	180 lb	82 kg
	5	1	013-077	Lock Pin	1 lb	0.45 kg

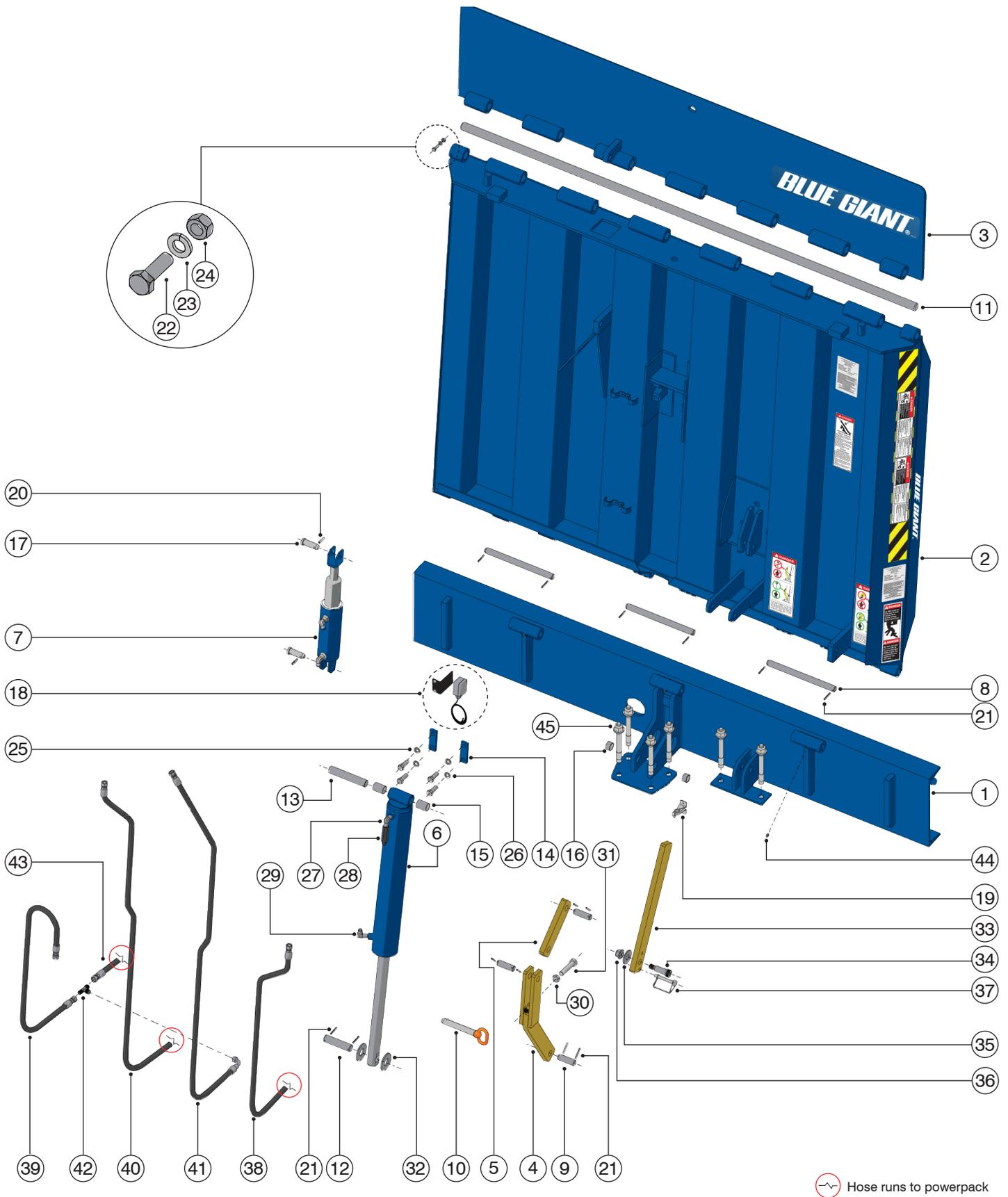
**ITEM # 6 - HARDWARE INCLUDED:**

✓	QTY	PART NO.	DESCRIPTION	APPROX. WEIGHT	
	3	23-012803	Pivot Pin	< .5 lb	< .22 kg
	1	See Sec. 13.2	Shaft	22 - 26 lb	10 - 11.8 kg
	1	23-012717	Cylinder Pin, Rod	< .5 lb	< .22 kg
	12	013-127	3/16 dia. Spring Pin x 1.50	—	—
	2	012-250	Flat Washers (U.S.) 1"	—	—

**ITEM # 7 - CONTROL AND COMPONENTS INCLUDED:**

✓	QTY	PART NO.	DESCRIPTION	APPROX. WEIGHT	
	1	BGG0V_F See Sec. 13.7	Complete Control Assembly English / French	6.2 lb	2.81 kg
		BGG0V_S See Sec. 13.7	Complete Control Assembly English / Spanish		
	1	038-099	E	—	—
			F		
			S		
	1	038-670E	VL Vertical Leveler Owner's Manual (this one)	—	—
	1	032-461	Exterior Traffic Light - Optional	1.3 lb	0.6 kg

13.0 MECHANICAL ASSEMBLY



**13.0 MECHANICAL ASSEMBLY CONT'D.**

ITEM	QTY	PART NO.	DESCRIPTION
1	1	See Sec. 13.3	Back Frame Weldment
2	1	See Sec. 13.1	Deck Weld
3	1	See Sec. 13.2	Lip Plate Weldment
4	1	23-012655	Safety Stand
5	1	23-012654	Safety Stand - Top Link
6	1	23-014490	Deck Cylinder Assembly - 2" Cushion
7	1	213-5058-1	Lip Cylinder Assembly, Double Acting
8	3	23-012803	Pivot Pin
9	3	23-012803-1	Pivot Pin
10	1	013-077	Lock Pin
11	1	See Sec. 13.2	Shaft
12	1	23-012717	Cylinder Pin Rod
13	1	23-003569	Pin
14	2	23-003568	Clevis Plate
15	2	018-018	Bushing
16	2	018-050	Bushing 1" x 1-1/8" x 5/8" Long
17	2	107-196	Clevis Pin
18	1	026-G024-A	Inclinometer Assembly
	1		Bracket
	2	—	Self-tapping Screws 1/4"
19	1	013-537	Tool Holder - Zinc Plated - 5/8" - 7/8" dia.

ITEM	QTY	PART NO.	DESCRIPTION
20	2	013-010	1/4" dia. Spring Pin 1.25" long
21	14	013-127	3/16" dia. Spring Pin x 1.50" long
22	2	010-006	HHCS 5/16-18 UNC x 1 GR.5 ZN
23	2	012-200	Regular Spring Lock Washers 5/16" (U.S.)
24	2	011-502	Hex Nuts (U.S.)
25	1	012-220	Regular Spring Lock Washers (U.S.)
26	4	010-048	HHCS 1/2-13 UNC x 1-1/2"
27	4	034-599	Fitting 90 6MP - 4MP
28	1	033-661	Velocity Fuse
29	1	034-601	Fitting
30	1	011-521	Hex Jam Nut 5/8-18 UNF
31	1	010-032	HHCS 5/8-18 UNF x 3 GR.8
32	2	012-250	Flat Washers (U.S.) 1"
33	1	23-013159	Maintenance Strut
34	1	011-078	Screw Shoulder 3/4 x 1-3/4" long
35	1	012-214	Flat Washers (U.S.) 3/4"
36	1	011-866	Flange Hex. Locknut 5/8" - 11
37	1	013-078	Linch Pin - 3/8" dia. x 2-1/4" Usable
42	1	034-665	Fitting Tee #6
44	3	019-500	Nipple Straight Grease 1/4"
45	6	010-108	5/8" dia x 6" (152 mm) Anchor Wedge (Not Supplied)

ITEM	DECK LENGTH	HOSE ASSY. - #6 HIGH PRESSURE		RUN TO WALL - 18' (5.5m)		RUN TO POST - 9' (2.7m)	
		DESCRIPTION	PART NO.	ACTUAL SIZE	PART NO.	ACTUAL SIZE	
38	5' (1.5m)	Deck	Raise	300-5000-50	22' (6.7m)	300-5000-40	13' (4m)
39			Lower	300-5000-25	6' (1.8m)	300-5000-25	6' (1.8m)
40		Lip	Extend	300-5000-69	23' (7m)	300-5000-42	15' (4.6m)
41			Return	300-5000-1	5' (1.5m)	300-5000-1	5' (1.5m)
43		Oil Return	300-5000-56	18' (5.5m)	300-5000-31	9' (2.7m)	
38	6' (1.8m)	Deck	Raise	300-5000-50	22' (6.7m)	300-5000-41	14' (4.3m)
39			Lower	300-5000-25	6' (1.8m)	300-5000-25	6' (1.8m)
40		Lip	Extend	300-5000-46	24' (7.3m)	300-5000-43	16' (4.9m)
41			Return	300-5005-2	6' (1.8m)	300-5005-2	6' (1.8m)
43		Oil Return	300-5000-56	18' (5.5m)	300-5000-31	9' (2.7m)	
38	8' (2.4m)	Deck	Raise	300-5000-50	22' (6.7m)	300-5000-43	16' (4.9m)
39			Lower	300-5000-25	6' (1.8m)	300-5000-25	6' (1.8m)
40		Lip	Extend	300-5000-51	26' (7.9m)	300-5000-56	18' (5.5m)
41			Return	300-5005-3	7' (2.1m)	300-5005-3	7' (2.1m)
43		Oil Return	300-5000-56	18' (5.5m)	300-5000-31	9' (2.7m)	

Run = Backframe to powerpack

**13.1 VL DECK SIZE AND CAPACITIES**

See Sec. 13.0 - Item 2

DECK SIZE (NOMINAL)	CAPACITY		MODEL	PART NO.
6' x 5'	30000 lb	13636 kg	VL6005-30	23-012804
	35000 lb	15909 kg	VL6005-35	23-013474
	40000 lb	18144 kg	VL6005-40	23-013129
	45000 lb	20454 kg	VL6005-45	
6' x 6'	30000 lb	13636 kg	VL6006-30	23-012804-1
	35000 lb	15909 kg	VL6006-35	23-013474-1
	40000 lb	18144 kg	VL6006-40	23-013129-1
	45000 lb	20454 kg	VL6006-45	
6' x 8'	30000 lb	13636 kg	VL6008-30	23-012804-2
	35000 lb	15909 kg	VL6008-35	23-013474-2
	40000 lb	18144 kg	VL6008-40	23-013129-2
	45000 lb	20454 kg	VL6008-45	
6' 6" x 5'	30000 lb	13636 kg	VL6605-30	23-012804-3
	35000 lb	15909 kg	VL6605-35	23-013474-3
	40000 lb	18144 kg	VL6605-40	23-013129-3
	45000 lb	20454 kg	VL6605-45	
6' 6" x 6'	30000 lb	13636 kg	VL6606-30	23-012804-4
	35000 lb	15909 kg	VL6606-35	23-013474-4
	40000 lb	18144 kg	VL6606-40	23-013129-4
	45000 lb	20454 kg	VL6606-45	
6' 6" x 8'	30000 lb	13636 kg	VL6608-30	23-012804-5
	35000 lb	15909 kg	VL6608-35	23-013474-5
	40000 lb	18144 kg	VL6608-40	23-013129-5
	45000 lb	20454 kg	VL6608-45	
7' x 5'	30000 lb	13636 kg	VL7005-30	23-012804-6
	35000 lb	15909 kg	VL7005-35	23-013474-6
	40000 lb	18144 kg	VL7005-40	23-013129-6
	45000 lb	20454 kg	VL7005-45	
7' x 6'	30000 lb	13636 kg	VL7006-30	23-012804-7
	35000 lb	15909 kg	VL7006-35	23-013474-7
	40000 lb	18144 kg	VL7006-40	23-013129-7
	45000 lb	20454 kg	VL7006-45	
7' x 8'	30000 lb	13636 kg	VL7008-30	23-012804-8
	35000 lb	15909 kg	VL7008-35	23-013474-8
	40000 lb	18144 kg	VL7008-40	23-013129-8
	45000 lb	20454 kg	VL7008-45	

**13.2 VL LIP SIZE AND CAPACITIES**

See Sec. 13.0 - Item 3 (Lip) and Item 11 (Shaft)

DECK WIDTH	CAPACITY		LENGTH		LIP PART NO.	SHAFT PART NO.		
6'	30000 lb	13636 kg	16"	406mm	23-014171	106-699		
			18"	457mm	23-014171-1			
			20"	508mm	23-014171-2			
			16"	406mm	23-014066			
	35000 lb	15909 kg	18"	457mm	23-014066-1	110-763		
			20"	508mm	23-014066-2			
			40000 lb to 45000 lb	18144 kg to 20454 kg	16"		406mm	23-014174
					18"		457mm	23-014174-1
	6' 6"	30000 lb	13636 kg	16"	406mm	23-014172	106-687-1	
				18"	457mm	23-014172-1		
				20"	508mm	23-014172-2		
				35000 lb	15909 kg	16"		406mm
18"	457mm	23-014067-1						
20"	508mm	23-014067-2						
40000 lb to 45000 lb	18144 kg to 20454 kg	16"	406mm			23-014175		
		18"	457mm	23-014175-1				
		7'	35000 lb	15909 kg	16"	406mm	23-014173	109-690
					18"	457mm	23-014173-1	
20"	508mm	23-014173-2						
30000 lb	13636 kg	16"			406mm	23-014068	111-594	
		18"	457mm	23-014068-1				
		20"	508mm	23-014068-2				
		40000 lb to 45000 lb	18144 kg to 20454 kg	16"	406mm	23-014176		
18"	457mm			23-014176-1				
7'	35000 lb			15909 kg	16"	406mm	23-014177	111-594
					18"	457mm	23-014177-1	
20"		508mm	23-014177-2					
30000 lb		13636 kg	16"		406mm	23-014173	109-690	
	18"		457mm	23-014173-1				
	20"		508mm	23-014173-2				
	35000 lb		15909 kg	16"	406mm	23-014068		111-594
18"		457mm		23-014068-1				
20"		508mm		23-014068-2				
40000 lb to 45000 lb		18144 kg to 20454 kg		16"	406mm	23-014176		
	18"		457mm	23-014176-1				
	7'		35000 lb	15909 kg	16"	406mm	23-014177	111-594
					18"	457mm	23-014177-1	
20"	508mm	23-014177-2						
30000 lb	13636 kg	16"			406mm	23-014173	109-690	
		18"	457mm	23-014173-1				
		20"	508mm	23-014173-2				
		35000 lb	15909 kg	16"	406mm	23-014068		111-594
18"	457mm			23-014068-1				
20"	508mm			23-014068-2				
40000 lb to 45000 lb	18144 kg to 20454 kg			16"	406mm	23-014176		
		18"	457mm	23-014176-1				
		7'	35000 lb	15909 kg	16"	406mm	23-014177	111-594
					18"	457mm	23-014177-1	
20"	508mm	23-014177-2						
30000 lb	13636 kg	16"			406mm	23-014173	109-690	
		18"	457mm	23-014173-1				
		20"	508mm	23-014173-2				
		35000 lb	15909 kg	16"	406mm	23-014068		111-594
18"	457mm			23-014068-1				
20"	508mm			23-014068-2				
40000 lb to 45000 lb	18144 kg to 20454 kg			16"	406mm	23-014176		
		18"	457mm	23-014176-1				
		7'	35000 lb	15909 kg	16"	406mm	23-014177	111-594
					18"	457mm	23-014177-1	
20"	508mm	23-014177-2						
30000 lb	13636 kg	16"			406mm	23-014173	109-690	
		18"	457mm	23-014173-1				
		20"	508mm	23-014173-2				
		35000 lb	15909 kg	16"	406mm	23-014068		111-594
18"	457mm			23-014068-1				
20"	508mm			23-014068-2				
40000 lb to 45000 lb	18144 kg to 20454 kg			16"	406mm	23-014176		
		18"	457mm	23-014176-1				

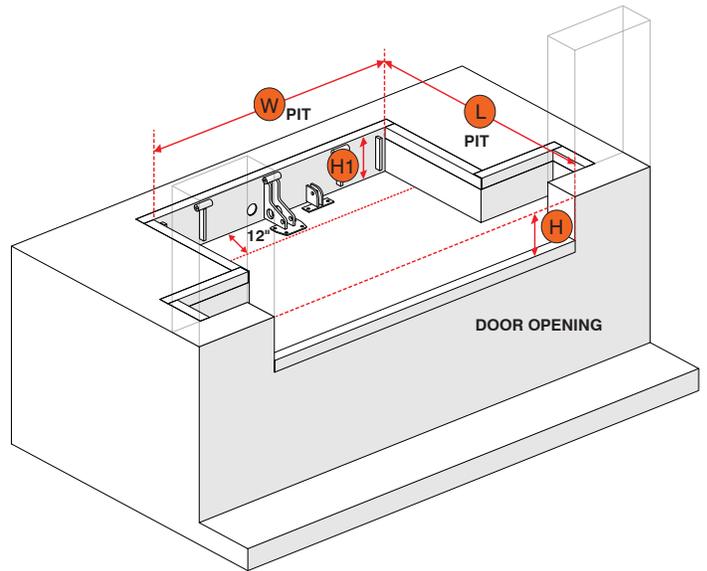
**13.3 VL BACK FRAME SIZE**

See Sec. 13.0 - Item 1

DECK SIZE (NOMINAL)	STANDARD DEPTH	PART NO.	OPTIONAL DEPTH	PART NO.
6' (1829mm)	12" (305mm)	23-014430	15" (381mm)	23-014535
6' 6" (1981mm)	12" (305mm)	23-014430-1	15" (381mm)	23-014535-1
7' (2133mm)	12" (305mm)	23-014430-2	15" (381mm)	23-014535-2

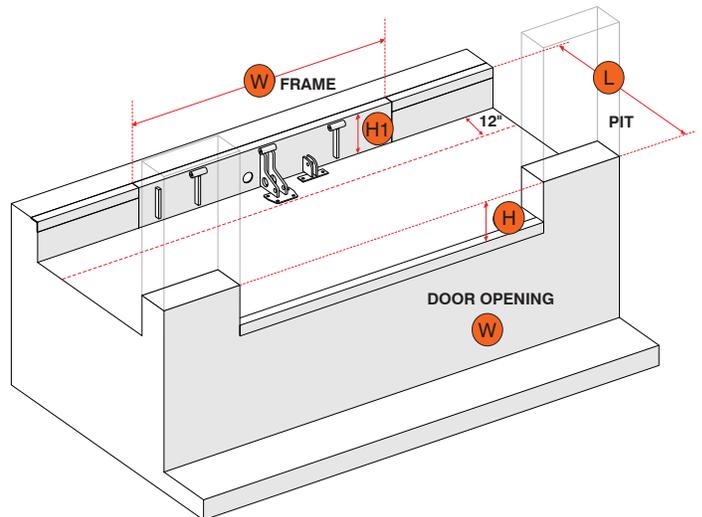
**13.4 PIT DIMENSIONS - T-STYLE PIT**

NOMINAL SIZE		PIT WIDTH (W)		PT LENGTH (L)	
		in	mm	in	mm
6' x 5'	1829 x 1524mm	74	1880	45.5	1156
6' x 6'	1829 x 1829mm			57.5	1461
6' x 8'	1829 x 2438mm			81.5	2070
6' 6" x 5'	1981 x 1524mm	80	2032	45.5	1156
6' 6" x 6'	1981 x 1829mm			57.5	1461
6' 6" x 8'	1981 x 2438mm			81.5	2070
7' x 5'	2133 x 1524mm	85	2159	45.5	1156
7' x 6'	2133 x 1829mm			57.5	1461
7' x 8'	2133 x 2438mm			81.5	2070
<b>Lip Length:</b>		16", 18", 20" (406, 457, 508mm)			
<b>Standard Pit Depth:</b>		<b>Front (H):</b> 12.5" (318mm)		<b>Rear (H1):</b> 12" (305mm)	
<b>Optional Pit Depth:</b>		<b>Front (H):</b> 15.5" (394mm)		<b>Rear (H1):</b> 15" (381mm)	

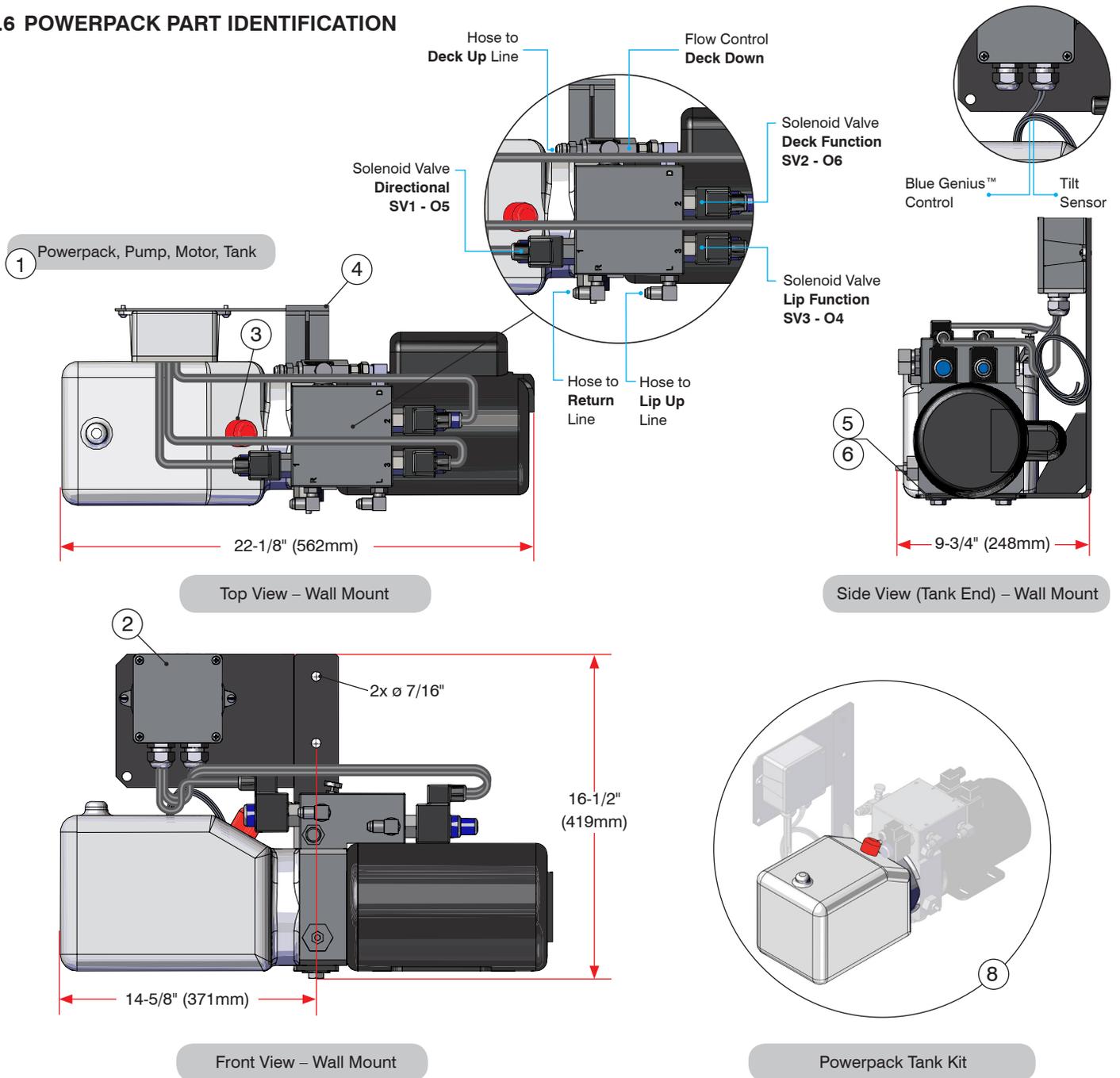


**13.5 PIT DIMENSIONS - CONTINUOUS PIT**

NOMINAL SIZE		FRAME WIDTH (W)		PIT LENGTH (L)	
		in	mm	in	mm
6' x 5'	1829 x 1524mm	80	2032	45.5	1156
6' x 6'	1829 x 1829mm			57.5	1460
6' x 8'	1829 x 2438mm			81.5	2070
6' 6" x 6'	1981 x 1524mm	86	2184	45.5	1156
6' 6" x 6'	1981 x 1829mm			57.5	1461
6' 6" x 8'	1981 x 2438mm			81.5	2070
7' x 5'	2133 x 1524mm	91	2311	45.5	1156
7' x 6'	2133 x 1829mm			57.5	1460
7' x 8'	2133 x 2438mm			81.5	2070
<b>Lip Length:</b>		16", 18", 20" (406, 457, 508mm)			
<b>Standard Pit Depth:</b>		<b>Front (H):</b> 12.5" (318mm)		<b>Rear (H1):</b> 12" (305mm)	
<b>Optional Pit Depth:</b>		<b>Front (H):</b> 15.5" (394mm)		<b>Rear (H1):</b> 15" (381mm)	



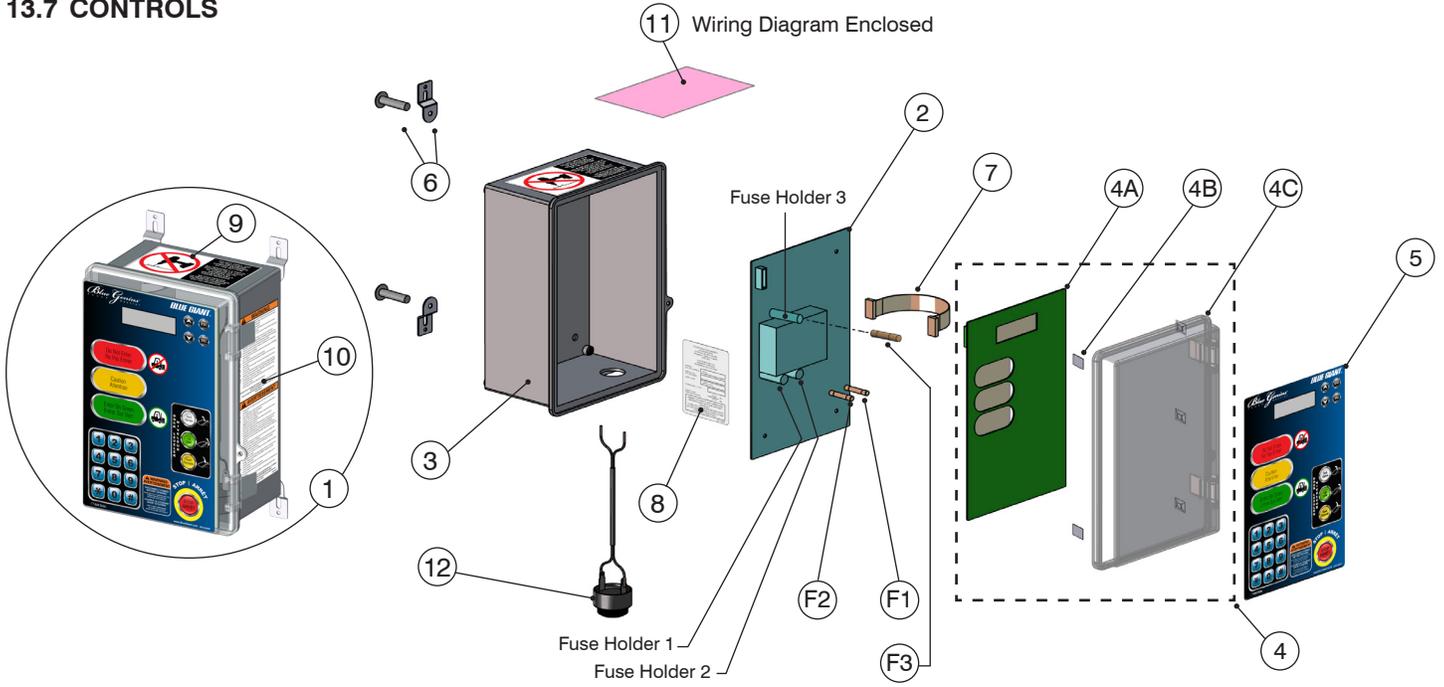
13.6 POWERPACK PART IDENTIFICATION



VL POWERPACK ASSEMBLY # 23-014530				
ITEM	QTY	PART NO.	DESCRIPTION	ITEM#1
1	1	23-014530	VL PPACK - REMOTE 1PH-115V-230V-60HZ	033-461
		23-014530-1	VL PPACK - REMOTE 3PH-230/460V-60HZ	033-462
		23-014530-2	VL PPACK REMOTE 3PH-575V-60HZ	033-463
2	1	026-H28	VL Remote I/O Harness (See Sec. 13.8)	
3	1	080-527	VL Powerpack Tank Breather Cap	

VL POWERPACK ASSEMBLY # 23-014530				
ITEM	QTY	PART NO.	DESCRIPTION	ITEM#1
4	1	23-014537	Wall Bracket	
5	2	010-170	Hex Head Cap Screws M10x20	
6	2	012-263	Flat Washers (U.S.) 7/16"	
7	1	See Sec. 7.6	Hydraulic Oil	
8	1	080-510	Tank (Reservoir Oil) Kit	

13.7 CONTROLS



COMPLETE CONTROL STATION ASSEMBLY - ITEM 1 (Example BGG0V1115F)									
ITEM	SINGLE PHASE								
	◇	FUSE	QTY	PART NO.	DESCRIPTION	ASSY PART #	*		
2		F1	A	1	026-PB1115-FH	Power Board Sub-Assembly † (1PH 115V 50-60HZ)	BGG0V1115	F	
		F2	E	1		S			
		F1	C	1	026-PB1230	Power Board Sub-Assembly † (1PH 230V 50-60HZ)	BGG0V1230	F	
		F2		1				S	
	THREE PHASE								
		◇	FUSE	QTY	PART NO.	DESCRIPTION	ASSY PART #	*	
	2		F1	C	1	026-PB3230	Power Board Sub-Assembly † (3PH 230V 50-60HZ)	BGG0V3230	F
			F2		1				S
			F1	F	1	026-PB3400	Power Board Sub-Assembly † (3PH 400V 50-60HZ)	BGG0V3400	F
			F2		1				S
			F1	G	1	026-PB3460	Power Board Sub-Assembly † (3PH 460V 50-60HZ)	BGG0V3460	F
			F2		1				S
		F1	H	1	026-PB3575	Power Board Sub-Assembly † (3PH 575V 60HZ)	BGG0V3575	F	
		F2		1				S	
3				1	025-G010-M	Control Box Enclosure (Includes 4C)			
4				1	025-G014-V3-M	Transparent Cover Door (4C) and Touch Control Board (4A) (Serial # Required)			
4A				1	026-G021-M	Touch Control Board (Serial # Required)			
4B				5	025-062	Cable Tie Mount			
4C			1	025-G014	Transparent Cover Door				
5			1	038-264E	Button Decal		F		
							S		

\* Language on decal: F = English / French S = English / Spanish

◇ Location on Power Board † Includes Fuses ‡ 115 Volt Control Box Shown

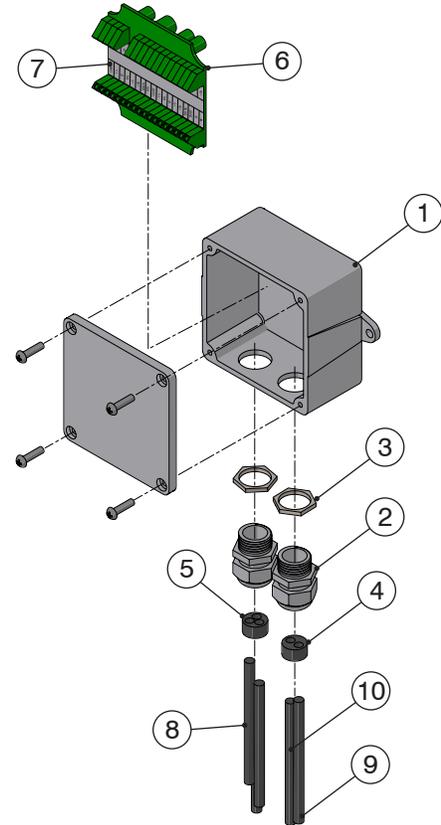
ITEM	QTY	PART NO.	DESCRIPTION
6	1	025-G010-1	Mounting Tabs with Hardware (1 pkg of 4)
7	1	026-G030	Ribbon Cable
8	1	038-284E	F Decal, Serial Plate
			S
9	1	038-283EFS	Decal, Do Not Drill
10	1	038-853E	F Warning Decal
			S
11	1	026-615-1	Anti-Static Poly Bag (Wiring Diagram Enclosed) (Serial # required for diagram)
12	1	026-G028	Audible Speaker
F3	1	026-037-1	Fuse, 2.5A, 700V, Fast-Blow 1/4" Glass

AS PER VOLTAGE - SEE ITEM 1

ITEM	QTY	PART NO.	DESCRIPTION
A	1	026-G100	Fuse, 15A, 250V , Time Delay for 1PH, 110-130V
B	1	026-G101	Fuse, 8A, 250V, Time Delay for 1PH, 208-240V
C	1	026-G102	Fuse, 0.5A, 250V, Time Delay for 1 and 3PH, 208-240V
D	1	026-G103	Fuse, 0.25A, 250V, Time Delay for 1PH, 208-240V
E	1	026-G104	Fuse, 0.75A, 250V, Time Delay for 1PH, 110-130V
F	1	026-G105	Fuse, 500mA, 700V, Fast Acting for 3PH, 380-415V
G	1	026-G106	Fuse, 400mA, 700V, Fast Acting for 3PH, 440-480V
H	1	026-G107	Fuse, 315mA, 700V, Fast Acting for 3PH, 575-600V

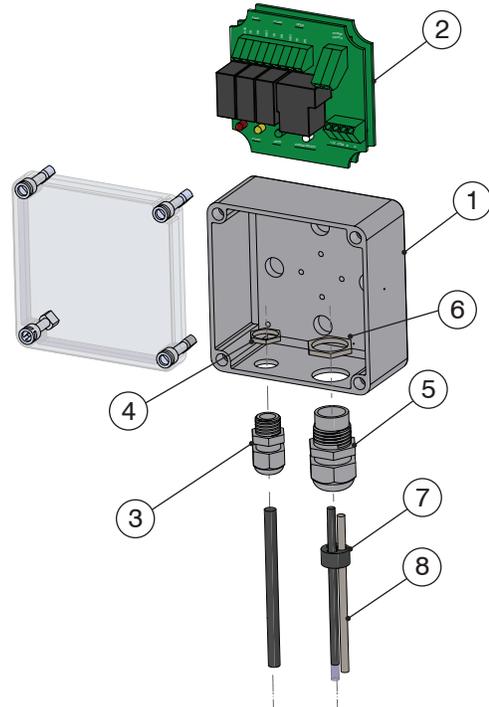
13.8 STANDARD REMOTE I/O

STANDARD REMOTE I/O PART # 026-H28			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	025-G020-M	Junction Box 4" x 4"
2	2	025-174	PG16 Cable Gland
3	2	025-177	PG16 Metal Locknut
4	1	025-179	PG16 Multi-Hole Seal - 2 Holes
5	1	025-175	PG16 Multi-Hole Seal - 3 Holes
6	1	026-G025BM	Remote I/O Board (No Resistor)
7	1	038-279	Circuit Board Decal
8	3	026-G074	Solenoid Valve Connector - 5' (1.5 m)
9	1	026-H16-1	Communication Harness with cable - 30' (9.1 m)
10	1	026-H01-1	Communication Cable - 3 Wire - 20' (6 m)



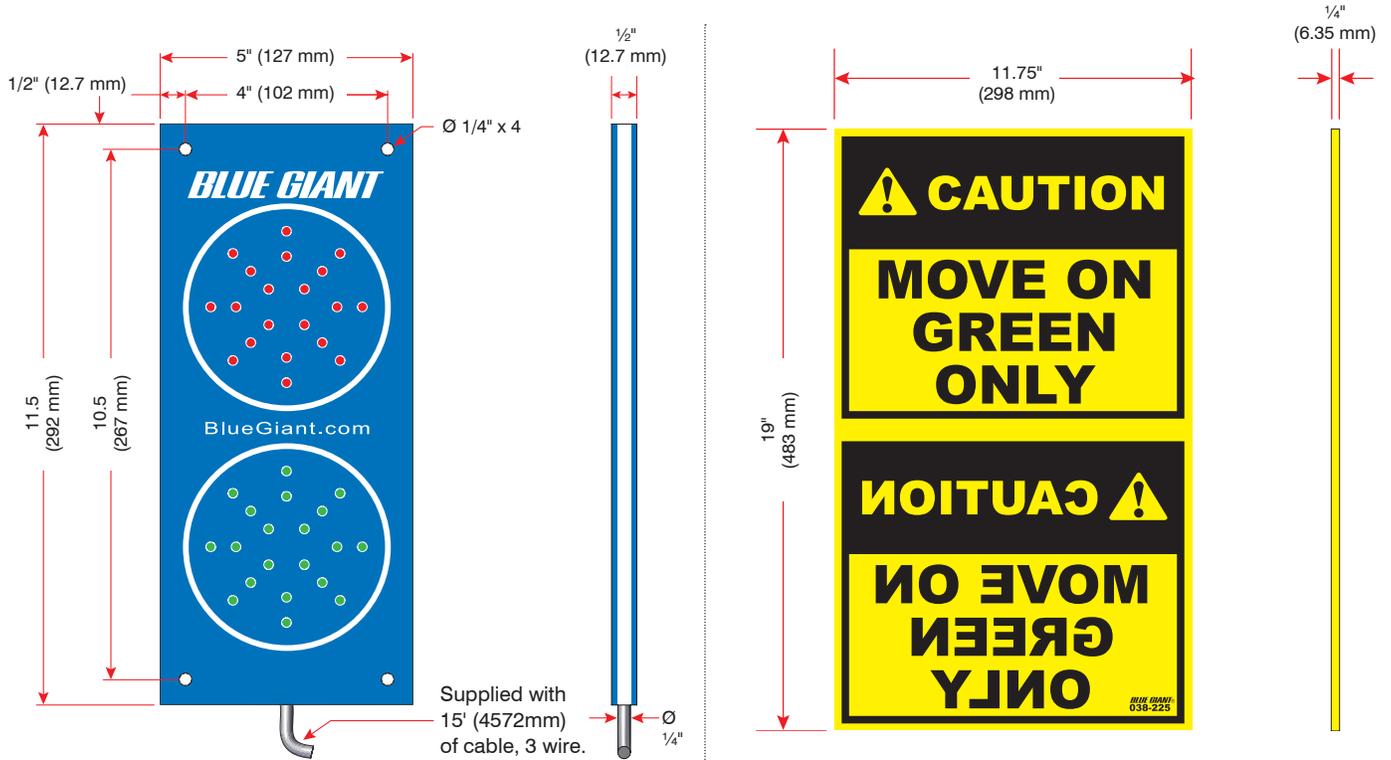
13.9 OPTIONAL DOOR REMOTE I/O

OPTIONAL DOOR REMOTE I/O PART # 70-0020			
ITEM	QTY	PART NO.	DESCRIPTION
1	1	110-404	Junction Box
2	1	026-G025-99	Remote I/O Board (Door Control)
3	1	025-173	PG9 Cable Gland
4	1	025-176	PG9 Metal Locknut
5	1	025-174	PG16 Cable Gland
6	1	025-177	PG16 Metal Locknut
7	1	025-175	PG16 Multi-Hole Seal - 3 holes
8	1	026-G031-C	Communication Cable Shielded - 15' (4.5 m)



**13.10 OPTIONAL EXTERIOR TRAFFIC LIGHT / MIRROR IMAGE SIGN**

Slim-build LED traffic lights and mirror image drive warning sign improve loading dock safety.



Exterior driver traffic light, part # 032-461.

**NOTE:** Mount to a flat surface. DO NOT deform light housing with irregular wall surface.

Exterior driver warning sign, part # 038-225.

(French 038-225F / Spanish 038-225S / Portuguese 038-225P)

**14.0 DOCK LEVELER TROUBLESHOOTING**



**WARNING**

Do not attempt to install, make repairs or adjustments. Only a trained and authorized service technician should perform the installation process. Contact your local dealer or distributor for assistance.

PROBLEM	PROBLEM CAUSE
<p>Deck will not raise or lower when the <b>'DECK/DOWN'</b> touch button is operated. Motor starts and runs.</p>	<ol style="list-style-type: none"> <li>1. Incorrect motor rotation                             <ul style="list-style-type: none"> <li>- Three phase or single phase:</li> <li>- See motor for motor rotation</li> </ul> </li> <li>2. Low or no hydraulic fluid in reservoir                             <ul style="list-style-type: none"> <li>- Check hydraulic fluid level</li> </ul> </li> <li>3. Pump faulty in powerpack                             <ul style="list-style-type: none"> <li>- Replace pump</li> </ul> </li> <li>4. Coupling between pump and motor broken / worn out                             <ul style="list-style-type: none"> <li>- Replace coupling</li> </ul> </li> <li>5. Pressure Relief Valve out of adjustment                             <ul style="list-style-type: none"> <li>- Turn pressure relief adjustment screw clockwise until deck begins to lift</li> </ul> </li> <li>6. Motor connected to incorrect Blue Genius™ motor terminals                             <ul style="list-style-type: none"> <li>- Refer to wiring diagram inside Blue Genius™ control panel</li> </ul> </li> </ol>
<p>Deck will not raise when the <b>'DECK'</b> touch button is operated. Motor does not attempt to run. No sound is heard, main power supply is present.</p>	<ol style="list-style-type: none"> <li>1. Overhead door sensor (optional)                             <ul style="list-style-type: none"> <li>- Ensure that overhead door is completely open</li> <li>- Check overhead door sensor for any interference and if faulty, repair or replace</li> <li>- Check connector on terminal strip (Input 1)</li> </ul> </li> <li>2. Faulty coil on board contactor                             <ul style="list-style-type: none"> <li>- Replace power board</li> </ul> </li> <li>3. Wrong dock selected                             <ul style="list-style-type: none"> <li>- Contact factory or Blue Giant dealer</li> </ul> </li> </ol>
<p>Deck will not raise or lower when the <b>'DECK/DOWN'</b> touch button is operated. Motor attempts to run, but the power supply circuit breaker / fuses trips / blows and the motor stops.</p>	<ol style="list-style-type: none"> <li>1. Faulty powerpack motor</li> <li>2. Faulty wiring</li> <li>3. Fuse / circuit breaker sized too low</li> <li>4. Incorrect supply voltage to motor (dual voltage motor)                             <ul style="list-style-type: none"> <li>- Check to ensure that applied voltage is the same as the motor-connected voltage</li> </ul> </li> </ol>
<p>Deck does not begin to move immediately when motor runs. Deck deployment has delayed action.</p>	<ol style="list-style-type: none"> <li>1. Air is trapped in the deck lifting cylinder                             <ul style="list-style-type: none"> <li>- Bleed the system. See item 3 below</li> </ul> </li> <li>2. Pressure relief valve set too low on powerpack</li> <li>3. Hydraulic hose was not pre-filled with fluid prior to installation                             <ul style="list-style-type: none"> <li>- To bleed air from the hydraulic system:</li> <li>- Operate the dock leveler and place the deck in its fully lowered, below level position</li> <li>- Wait 10 seconds and raise deck to home position. Retest. If delay is still present, repeat this step</li> </ul> </li> </ol>

14.0 DOCK LEVELER TROUBLESHOOTING CONT'D.



**WARNING**

Do not attempt to install, make repairs or adjustments. Only a trained and authorized service technician should perform the installation process. Contact your local dealer or distributor for assistance.

PROBLEM	PROBLEM CAUSE
Deck rises partially and then stops. Motor continues to run and makes more noise than usual.	<ol style="list-style-type: none"> <li>1. Low hydraulic oil in reservoir                             <ul style="list-style-type: none"> <li>- Possible fluid leak. Repair as required</li> <li>- Fill hydraulic reservoir with clean, new hydraulic fluid</li> <li>- Correct oil level is 3/4 full when the deck and lip are in their fully lowered, below level position</li> </ul> </li> </ol>
Deck stops while lowering for no apparent reason.	<ol style="list-style-type: none"> <li>1. Lowering speed is set too fast                             <ul style="list-style-type: none"> <li>- Adjustment is required to slow down the lowering. Refer to powerpack valve adjustment</li> <li>- Fall-safe velocity fuse will lock closed if lowering speed is too fast, and the deck will not lower any further</li> </ul> <p><b>NOTE:</b> To open a locked velocity fuse: "Press the 'DECK' cylinder - Raise the deck to its fully vertical position. Press the 'DOWN' button and retest, lowering for a full cycle.</p> </li> <li>2. Solenoid error                             <ul style="list-style-type: none"> <li>- Investigate and correct</li> </ul> </li> </ol>
Deck does not move when the 'DOWN' button is operated. The deck is in the stored position and the motor does not run. A clicking sound may be heard inside Blue Genius™ control panel.	<ol style="list-style-type: none"> <li>1. Motor not connected or miswired                             <ul style="list-style-type: none"> <li>- Check wiring diagram provided inside Blue Genius™ control panel</li> </ul> </li> </ol>
Lip does not move right away.	<ol style="list-style-type: none"> <li>1. Lip cylinder has air trapped inside                             <ul style="list-style-type: none"> <li>- Operate the lip (moving it up and down) while the deck is stored and also while the deck is completely deployed</li> </ul> </li> <li>2. Hose length too long. Bleed system by cracking the hydraulic hose fitting at the lip cylinder port</li> </ol>
Lip will not extend when the deck is in the stored position.	<ol style="list-style-type: none"> <li>1. Check the hydraulic fluid level, and add fluid if needed. Do not overfill. Correct oil level is 3/4 full when the deck and lip are in their fully lowered, below level position</li> <li>2. Deck button was not held long enough, creating a delay between the deck rising and the lip extending</li> </ol>
Lip will not extend when the lip button is operated. The deck does rise when 'DECK' button touched	<ol style="list-style-type: none"> <li>1. SV3 solenoid valve is inactive. Check the wiring for SV3. Verify that the SV3 solenoid stem is not damaged and that the SV2 coil is not open</li> <li>2. SV1 solenoid is active. Check wiring or damaged stem</li> </ol>
Lip operates when the 'DOWN' button is operated.	<ol style="list-style-type: none"> <li>1. SV3 solenoid is active                             <ul style="list-style-type: none"> <li>- Check the I/O board connections for proper termination of solenoid valves</li> <li>- Check wiring to solenoid valve connectors</li> </ul> </li> <li>2. SV2 is inactive and SV3 is active</li> </ol>
Lip will not fold when the 'LIP' button is operated.	<ol style="list-style-type: none"> <li>1. SV1 or SV3 (or both) solenoid valves are inactive                             <ul style="list-style-type: none"> <li>- Check wiring to the solenoid valves</li> </ul> </li> </ol>

**15.0 BLUE GENIUS™ LCD MESSAGES**

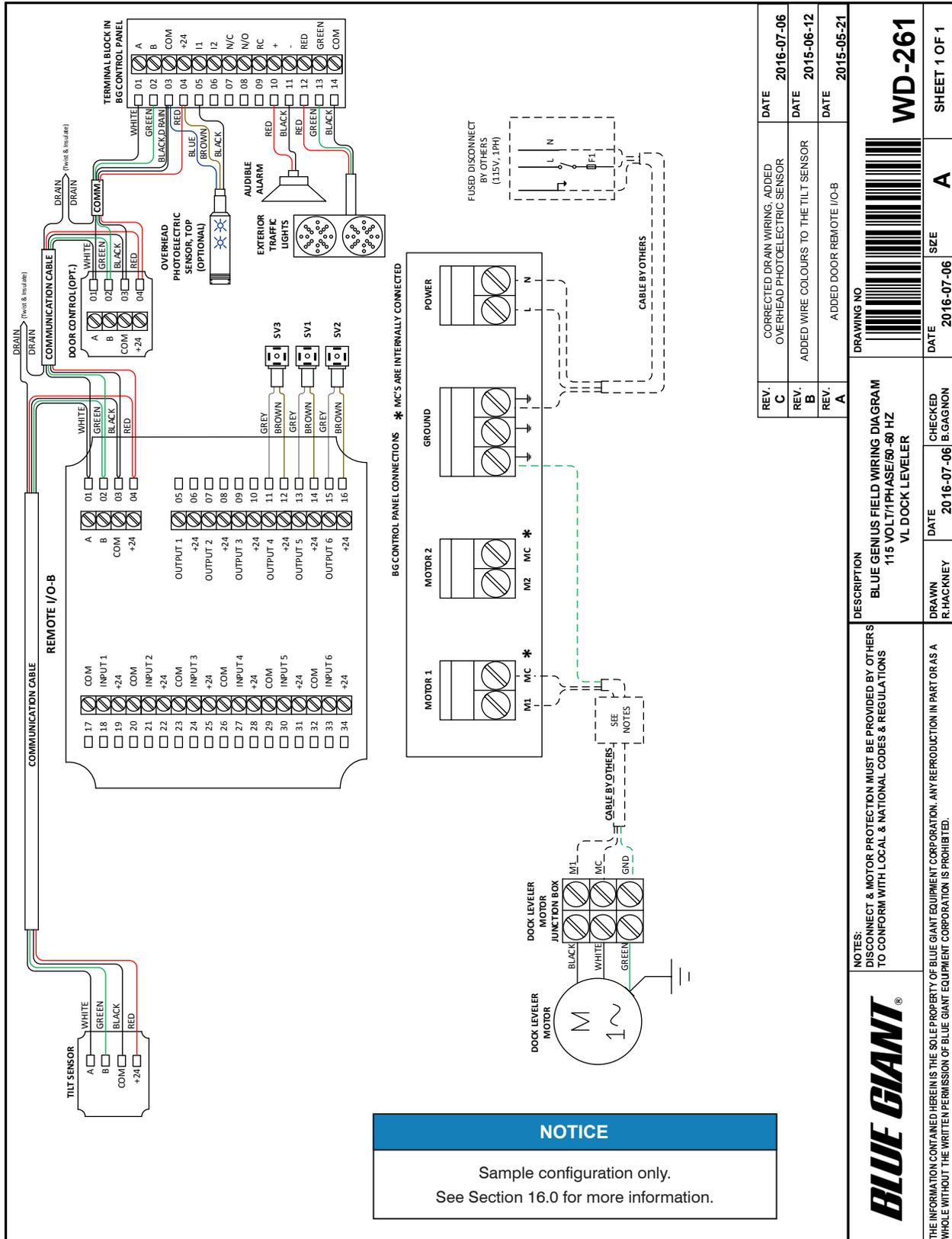
 <b>WARNING</b>
<p>Do not attempt to install, make repairs or adjustments. Only a trained and authorized service technician should perform the installation process. Contact your local dealer or distributor for assistance.</p>

MESSAGE	EXPLANATION
<p><b>'Restraint is Engaged or Bypassed.'</b> <b>'Dock Leveler Restored.'</b></p>	<p>Restraint has been engaged or bypassed; dock leveler may now be deployed. (Applies to combo units with vertical storing dock levelers only)</p>
<p><b>'Raising Leveler'</b></p>	<p>The 'Deck' button is being touched: the deck is now rising from the deployed position.</p>
<p><b>'Lowering Leveler'</b></p>	<p>The 'Down' button is being touched: the deck is now lowering.</p>
<p><b>'Deck Moving'</b></p>	<p>The deck is in motion: either deploying or lowering to the parked position. This message appears when the 'Deck' button has been released.</p>
<p><b>'Raising Lip'</b></p>	<p>The 'Lip' button is being touched or the operator has held the 'Deck' button until the lip has been deployed. This message also appears when the 'Deck' button is held until the vertical storing dock leveler has reached the home position.</p>
<p><b>'Lowering Lip'</b></p>	<p>The 'Lip' button has been touched, causing the lip to lower for below level loading.</p>
<p><b>'Leveler is Restored'</b></p>	<p>The dock leveler is in the home position.</p>

**16.0 WIRING DIAGRAMS**

<b>NOTICE</b>
<p>The following wiring diagrams are sample configurations only. Wiring diagrams specific to your needs will be provided inside the control panel and/or as part of your submittal package.</p>

16.1 WIRING DIAGRAM—115V SINGLE PHASE



REV. C	CORRECTED DRAIN WIRING; ADDED OVERHEAD PHOTOELECTRIC SENSOR	DATE	2016-07-06
REV. B	ADDED WIRE COLOURS TO THE TILT SENSOR	DATE	2015-06-12
REV. A	ADDED DOOR REMOTE I/O-B	DATE	2015-05-21

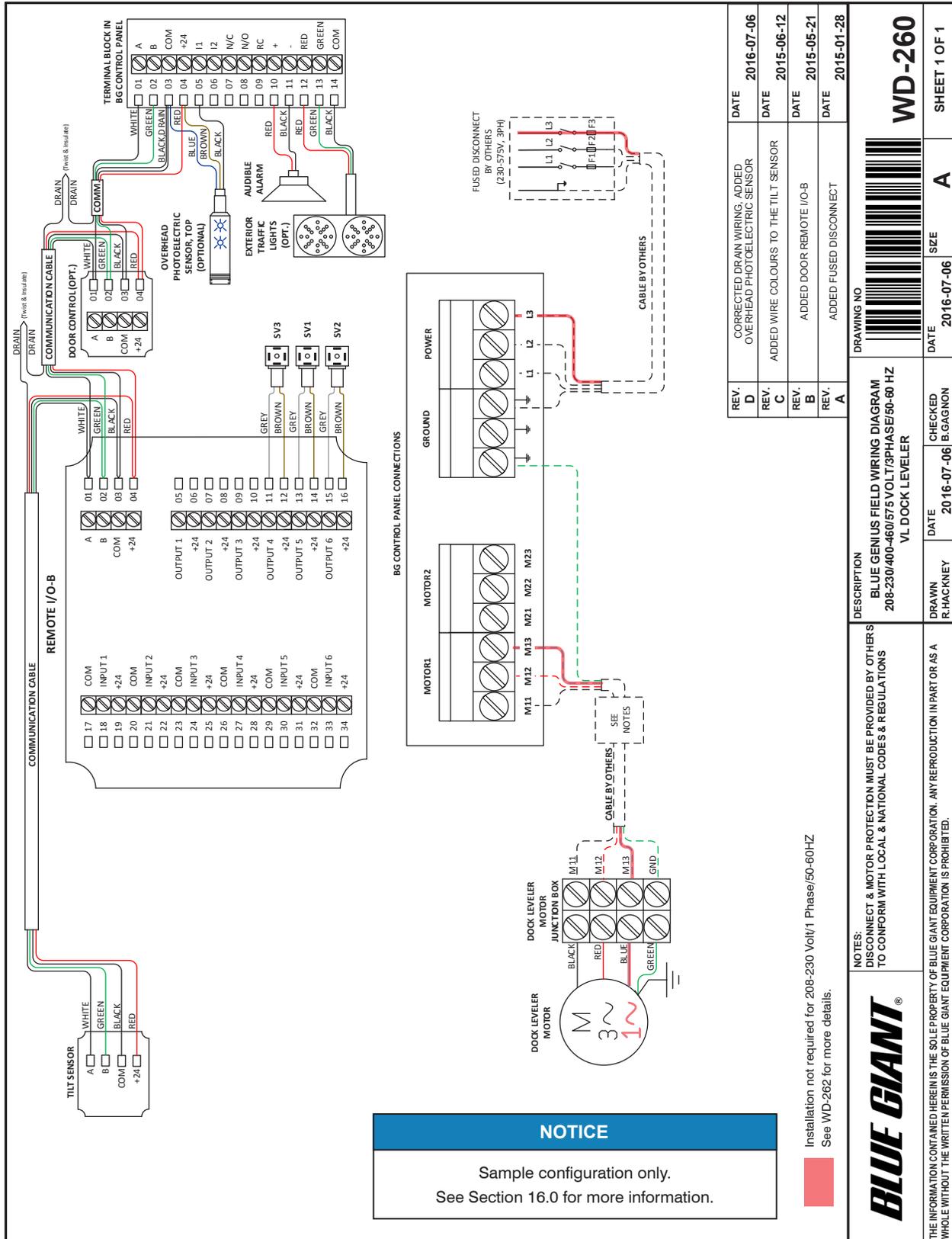
  

DRAWING NO		WD-261	
DESCRIPTION		BLUE GENIUS FIELD WIRING DIAGRAM 115 VOLT/1PHASE/50-60 HZ VL DOCK LEVELER	
DRAWN	DATE	CHECKED	DATE
R-HACKNEY	2016-07-06	B.GAGNON	2016-07-06
SIZE		A	
SHEET		1 OF 1	



NOTES:  
DISCONNECT & MOTOR PROTECTION MUST BE PROVIDED BY OTHERS TO CONFORM WITH LOCAL & NATIONAL CODES & REGULATIONS  
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16.2 WIRING DIAGRAM—208-600V THREE PHASE



REV. D	CORRECTED DRAIN WIRING, ADDED OVERHEAD PHOTOELECTRIC SENSOR	DATE	2016-07-06
REV. C	ADDED WIRE COLOURS TO THE TILT SENSOR	DATE	2015-06-12
REV. B	ADDED DOOR REMOTE I/O-B	DATE	2015-05-21
REV. A	ADDED FUSED DISCONNECT	DATE	2015-01-28

DESCRIPTION  
BLUE GENIUS FIELD WIRING DIAGRAM  
208-230/400-460/575 VOLT/3PHASE/50-60 HZ  
VL DOCK LEVELER

DRAWN R-HACKNEY DATE 2016-07-06 CHECKED B.GAGNON

DRAWING NO. **WD-260**

DATE 2016-07-06 SIZE **A** SHEET 1 OF 1

NOTES:  
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**BLUE GIANT**

Installation not required for 208-230 Volt/1 Phase/50-60HZ  
See WD-262 for more details.

**NOTES**

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