OWNER'S MANUAL

STRONGARM™ SVR303 VEHICLE RESTRAINT

WITH BLUE GENIUS™ TOUCH CONTROL



ACTUAL PRODUCT MAY NOT APPEAR EXACTLY AS SHOWN



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.



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1.0 ABOUT THE STRONGARM™ SVR303 WITH BLUE GENIUS™ TOUCH CONTROL

The Blue Giant StrongArm™ SVR303 applies 35,000 lb (15,876 kg) of restraining force to prevent trailer creep, unscheduled departures, and other hazards caused by trailer movement. With a vertical restraining range of 8" (203mm) to 26" (660mm) and horizontal reach of 13" (406mm), this award-winning hydraulic vehicle restraint will secure virtually any truck or trailer, even those with bent or damaged ICC bars.

The SVR303 Intelligent Positioning System (IPS) uses switchless technology to detect an ICC bar. The unique mechanical PosiLock configuration keeps trailers in place without applying pressure to the hydraulic system. Additional operational features include:

- Air-ride compatibility
- NEMA 6 IPS sensor and double-acting cylinders that enable operation even during wet or flooded conditions
- · Restraint arm removes obstacles in its travel path, ensuring smooth and trouble-free deployment and parking

The Blue Genius™ Gold Series II Touch Control Panel features include an LCD menu screen, function (ENGAGE, RELEASE, STOP) buttons and a flat-surface keypad with unique touch sensors. LED control panel lights and LED exterior traffic lights keep truck drivers and warehouse personnel advised of safety conditions during dock operations.

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) | | | | | |
|---|------------------|--|--|--|--|
| Dealer: | Date in Service: | | | | |
| | Number of Units: | | | | |
| Serial Number: | Door #: | | | | |
| Serial Number: | Door #: | | | | |
| Serial Number: | Door #: | | | | |
| Serial Number: | Door #: | | | | |
| Serial Number: | Door #: | | | | |
| Serial Number: | Door #: | | | | |
| Serial Number: | Door #: | | | | |

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 of this manual). Please contact the manufacturer for latest information. Some features illustrated may be optional in certain market areas.

NOTICE

See Section 11.0 "Decal Identification and Location," item #6 for serial number location.

2.0 INTRODUCTION

The following is a quick reference to important procedures that must be followed while using the Vehicle Restraint System. 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 Vehicle Restraint System. These laws and regulations include but are not limited to:

- The Occupational Safety and Health Act
- Canada Occupational Health and Safety Regulations
- Occupational Safety and Health Acts for Individual States (USA)

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 www.ansi.org

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

www.mhi.org/lodem

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 on-line Warranty Registration at www.BlueGiant.com.

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 or phone 1.905.457.3900.

DEALER INFORMATION Name: Contact: Telephone:

NOTE: All products must be registered to qualify for warranty.

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 the Vehicle Restraint System. 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 improvements and 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 Vehicle Restraint 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

- 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.
- 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.
 - · Installation instructions
 - · Operating instructions
 - · Planned maintenance procedures
 - · Inspections procedures
 - Replacement 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.

- Manufacturer's recommended periodic maintenance and inspection procedures shall be followed, and written records of the performance of these procedures should be kept as per warranty guidelines.
- 4. Dock equipment that is structurally damaged, experiencing performance irregularities, or has been potentially compromised (i.e. sudden loss of support due to premature truck departure) 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. Your local Blue Giant[®] representative offers owners the option of a Planned Maintenance Program (P.M.P.). As part of this service, your local Blue Giant[®] representative will do all routine maintenance, lubrication, and adjustments.
- 6. The owner shall ensure that all nameplates, caution/

- instruction markings or labels are in place and legible, and that the appropriate operating/maintenance manuals are provided to authorized users. Replacement name plates, caution/instruction labels, and manuals containing operating and maintenance instructions are available through the Blue Giant Aftermarket Department. See Section 11.0 "Decal Identification and Location" for more information.
- 7. Modifications or alterations of dock equipment shall be made only with written permission of the original manufacturer. These changes shall also satisfy all safety recommendations of the original equipment manufacturer for the particular application of the dock equipment.
- 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 such as loading and unloading begin.
- 9. 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.
- 10. 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 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.

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DANGER

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



WARNING

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

NOTICE

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



CAUTION

Instructions marked caution concern safe operating procedure.

Failure to comply may result in personal injury.

3.1 OPERATIONAL SAFETY WARNINGS



DANGER

Keep hands and feet away from operating space of the restraint apparatus.

CRUSH HAZARD





- 1. Do not operate the dock equipment while anyone is standing in its path.
- Lift the dock equipment with suitable hoisting equipment only. Do not stand under the dock equipment or any heavy object while it is being hoisted.
- BEFORE BEGINNING ANY SERVICE PROCEDURES:
 Disconnect the power and follow all lockout / tagout procedures outlined in this manual.

WARNING

- 1. Installation must be performed only by trained and authorized personnel.
- 2. Prior to installation, place adequate barriers to prevent vehicle traffic from entering the work area.
- 3. During installation, anchors must be properly torqued to achieve the necessary anchoring strength. DO NOT USE IMPACT DRIVERS.
- 4. Any electrical work must be performed by qualified personnel only.
- 5. Do not remove the wheel chocks until loading /unloading is finished and the truck is cleared for departure or the vehicle restraint has been released and the lights have changed to RED inside and GREEN outside.

NOTICE

- 1. Do not ground welding equipment to any electrical components.
- 2. Do not allow the drill to go too deeply into the control box, as damage may occur to the control systems.
- 3. Never use air to blow debris from the control box. Use a vacuum to perform any necessary cleaning.
- 4. Do not connect green ground lead into control box or junction box until all welding has been completed.
- 5. If an extension plate / box is required, securely mount it on the restraint with hardware provided before shimming and drilling.
- 6. Improper adjustments and / or lubrication may cause operational problems with equipment.
- 7. Check hydraulic fluid level.
- 8. Do not force the valve adjustment screws against the internal stops.



CAUTION

- 1. Only trained personnel should operate or service this equipment.
- 2. Do not operate the dock equipment until the transport vehicle is parked against the dock bumpers.
- 3. Always park the dock equipment after use (ensure that the lip is safely parked in the lip keepers).
- 4. Conduct routine inspections and maintenance. Failure to do so could cause equipment damage and or personal injury.
- 5. Always call your authorized service representative or manufacturer immediately if a malfunction occurs.
- 6. Always return the restraint arm to the parked position after use.

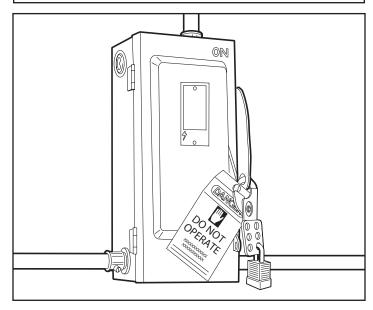
4.0 LOCKOUT / TAGOUT PROCEDURE AND RULES

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 and procedures 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.



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.



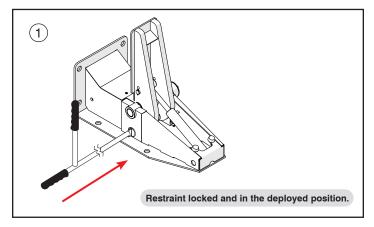
Approved way to lockout / tagout.

5.0 EMERGENCY VEHICLE RESTRAINT LOWERING PROCEDURE

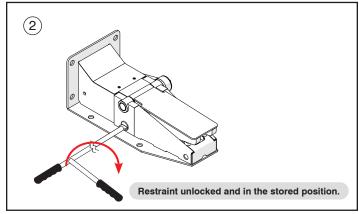
In the event of a power/malfunction failure to the control panel while the restraint arm is in the vertical locked position, the locking mechanism can be released manually. The restraint arm can then be lowered to the stored position. In case of restraint or control panel malfunction, see the "Unlocking the Locking Mechanism" section below.

NOTE: Turn-off power switch/disconnect before performing manual emergency procedure. Power may initiate without warning, hence for safe manual lowering, please turn-off switch".

NOTE: Confirm that the trailer ICC bar is not applying pressure to the arm / lock mechanism before attempting to unlock: otherwise manual release will not be possible.



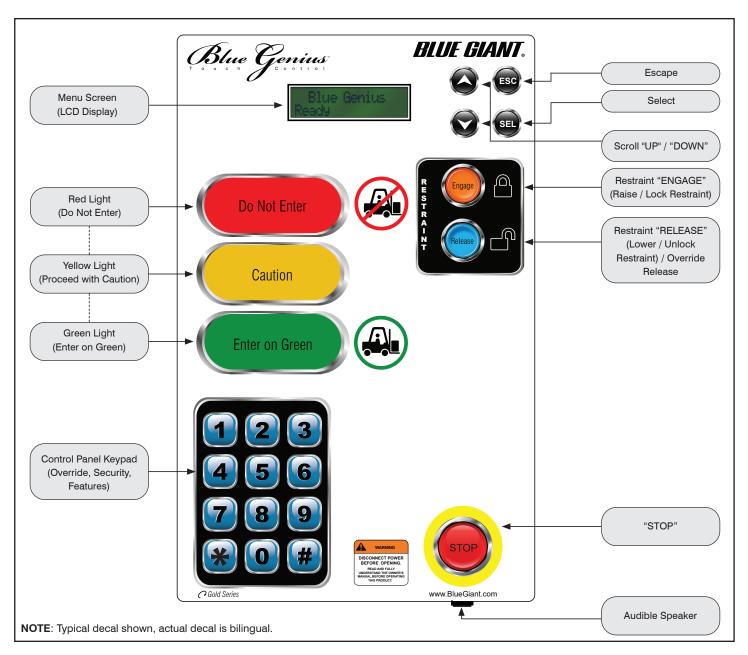
Insert unlocking bar (Part# 54-001682) into slot with pressure for leverage.



Rotate bar away from the wall to unlock. Restraint arm can descend to the stored position.

6.0 CONTROL PANEL OPERATION

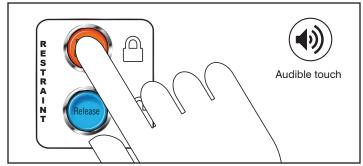
Controls combinations of all supported dock equipment: one individual vehicle restraint, one individual dock leveler, and controls for a door. Also equipped with touch buttons, inside forklift operator traffic lights, operator menu screen, and keypad for coded features.



6.1 BUTTON FUNCTION

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

The 'Engage' and 'Release' buttons require only a single touch to activate their respective functions. Do not apply constant pressure



7.0 OPERATING INSTRUCTIONS

WARNING

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

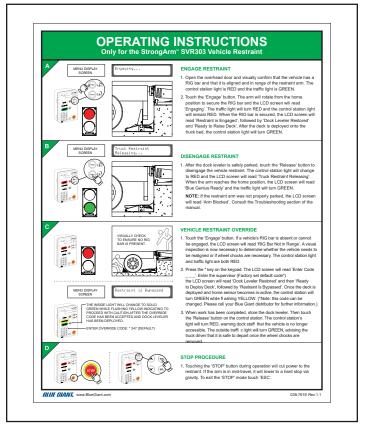
Do not operate this restraint until you have checked its condition. Report the need for repairs to your supervisor immediately and do not operate the unit until repairs are made.

Never try to lift or move any part of the vehicle restraint manually. Keep hands and feet clear of vehicle restraint pinch points.

It is the responsibility of the owner / operator of truck / vehicle to (whenever possible) exhaust the air from air-ride suspension systems prior to performing loading or unloading.

Because ICC bars differ in strength and construction, review the need to use wheel chocks in conjunction with the vehicle restraint.

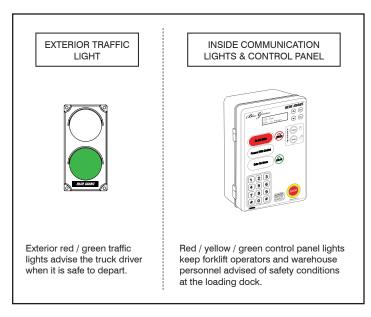
This vehicle restraint is designed for rear impact guards (RIG) and rear impact protection (ICC Bar) that follow the Federal Carrier Safety Administration guidelines (FMCSA section 571.223 and 571.224) + NHTSA (National Highway Traffic Safety Administration) guidelines.

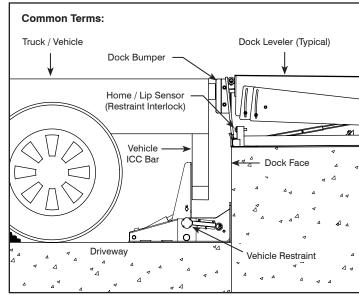


SVR303 operation placard, provided with equipment—part # 038-761E.

FUNCTIONAL DESCRIPTION

The vehicle restraint is used to restrain a trailer at the loading dock. When engaged, it secures a vehicle's under ride guard (ICC bar), restricting forward movement caused by vehicle creep or unscheduled departure. It is electric-hydraulic operated and monitored via the Blue Genius™ Touch Control Panel, and comes standard with an automatic lights communication package consisting of red/yellow/ green control panel lights and exterior red/green LED traffic lights.

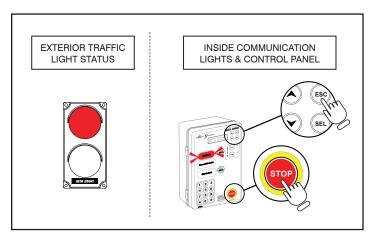


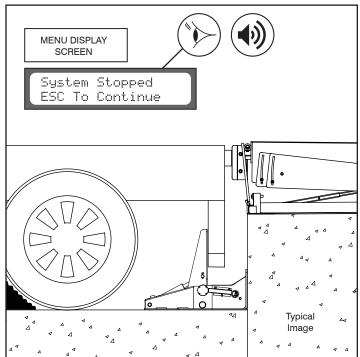


ADVANCED SAFETY FEATURES

7.2 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.

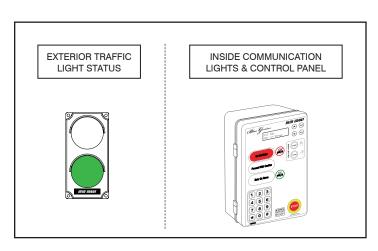


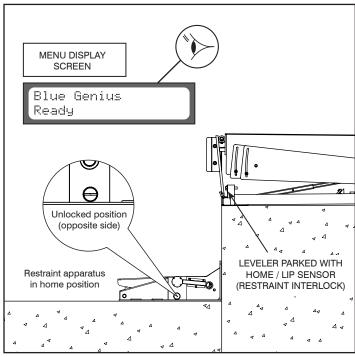


STANDARD OPERATION PROCEDURES

7.3 PRIOR TO USE: EQUIPMENT IN STORED **POSITION**

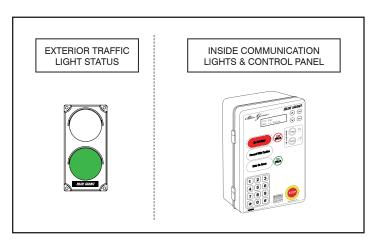
The Blue Genius™ control panel is powered on and ready for use. The restraint apparatus is in the home position and the dock leveler lip is parked safely in the lip keepers. The exterior traffic light is GREEN and the control panel light is RED.

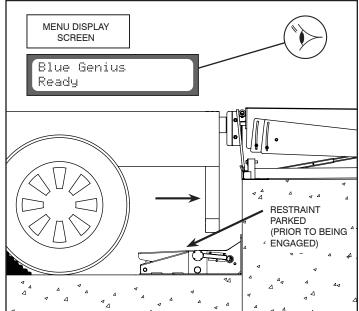




7.4 TRAILER AT BAY

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





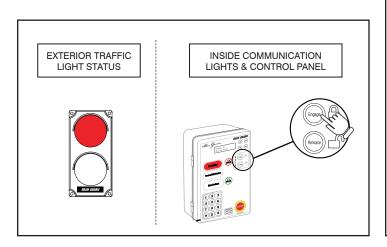
WARNING

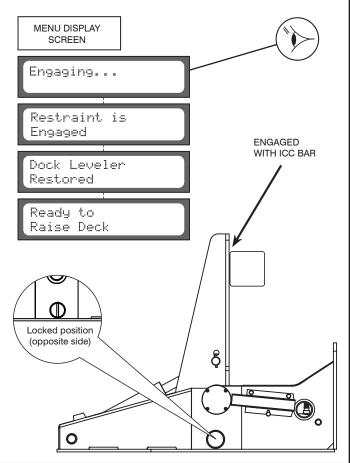
The restraint arm is in motion during the engage and release process. Please ensure that the personnel and objects remain clear of the motion path when the restraint arm is travelling.

7.5 ENGAGING RESTRAINT

Touch the 'Engage' button on the control panel. The securing apparatus will exit the stored position to secure the truck's ICC bar. The LCD screen will read 'Engaging'. The traffic light will turn RED and the control panel light will remain RED. When the ICC bar is secured, the LCD screen will read 'Restraint is Engaged', followed by 'Dock Leveler Restored' and 'Ready to Raise Deck'. The exterior traffic light remains RED, warning the truck driver to stay in place.

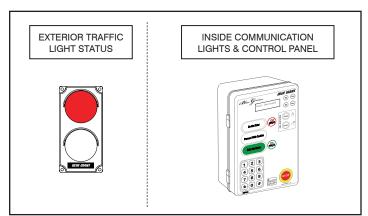
NOTE: For vehicles without an ICC bar, or if the restraint apparatus cannot successfully engage, please see Section 8.0 "Engaging the Override Feature" for more information.

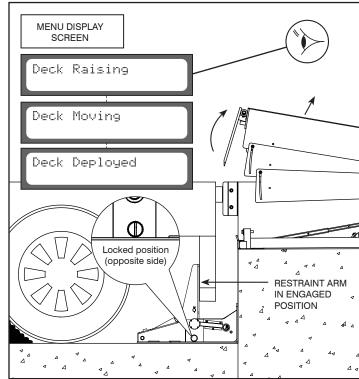




7.6 DEPLOYING THE DOCK LEVELER

Deploy the dock leveler (supplied by others) using controls provided by original manufacturer. Both the exterior traffic light and the control panel light will be RED. Touch and hold the 'Deck' button. The LCD screen will read 'Deck Raising'. Keep holding the button until the lip deploys, and then release. The LCD message will change to 'Deck Moving'. The dock leveler and deployed lip will descend onto the truck bed and the message will now read 'Deck Deployed'. The control panel light will turn GREEN.



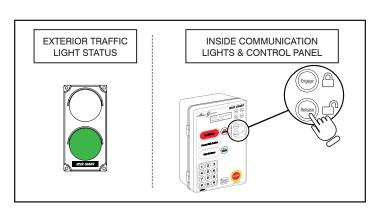


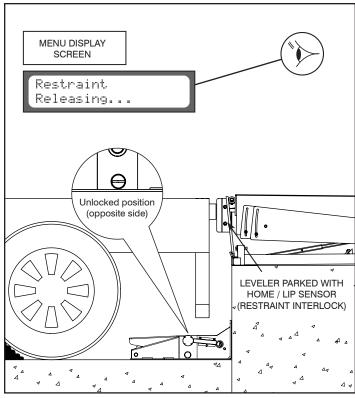
PERFORM LOADING AND UNLOADING

RELEASING THE RESTRAINT ARM

After the dock leveler is safely parked, the control station light will turn RED while the outside traffic light remains RED. Touch the 'Release' button to disengage the vehicle restraint. The LCD screen will read 'Restraint Releasing.' When the restraint arm reaches the home position, the LCD screen will read 'Blue Genius Ready' and the outside traffic light will turn GREEN.

NOTE: If the arm encounters any obstructions while lowering, it will 'pound' down three times to dissolve the blockage. The control panel light will be RED and an alarm will sound. The LCD screen will read 'Arm Blocked- Retrying' followed by 'Restraint Releasing'. After the final unsuccessful attempt, the screen will read 'Restraint Arm Blocked'.





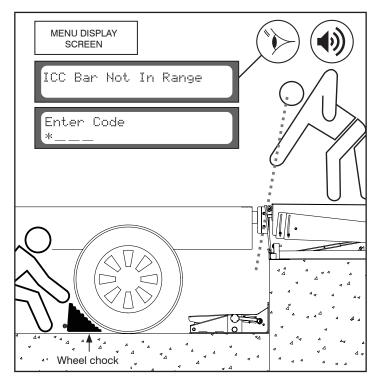
8.0 ENGAGING THE OVERRIDE FEATURE

Should it be necessary to bypass the vehicle restraint function (i.e. the truck has an outdated, damaged, or missing ICC bar), a systemapproved override code may be entered via the Blue Genius™ touch keypad. This code can be used whether or not the dock leveler is interlocked with the Blue Genius.™ Ensure that the vehicle is manually chocked before loading and unloading begins.

NOTE: If a visual inspection confirms that the ICC bar is missing or too damaged to be secured then depending on your Blue Genius Software version:

- · Up to Version 3.0 (inclusive), bypass Step 1 in the instructions below and go directly to Step 2, which explains how to enter the Override Code.
- From Version 3.1 and higher, step 1 is required sequence and then proceed to step 2, follow the instructions. Alternative sequence processes may be available, please consult your Blue Giant representative.
- 1. During "Engaging Restraint" (Section 7.5), the LCD screen may read "ICC Bar Not in Range." This message indicates that a vehicle's ICC bar is absent or cannot be engaged.

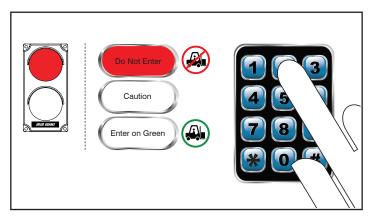
Determine whether the vehicle needs to be realigned or if wheel chocks are necessary.



2A. Press the * key on the keypad. The LCD screen will read 'Enter Code *___'.

Enter the supervisor code (default factory set code is '247').

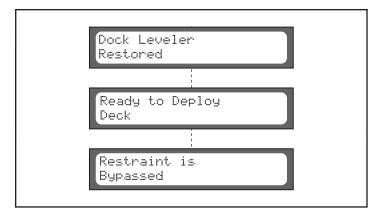
NOTE: The default code can be changed. Please call your Blue Giant representative for further information.



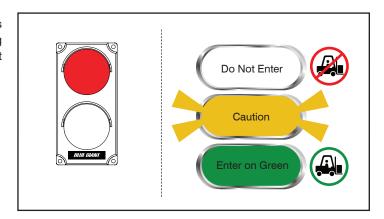
8.0 ENGAGING THE OVERRIDE FEATURE CONT'D.

Continue operation of overhead door, dock leveler, and vehicle restraint as outlined in Section 7.5 "Engaging Restraint". The following indicators will appear:

2B. The LCD screen will read 'Dock Leveler Restored' and then "Ready to Deploy Deck," followed by "Restraint is Bypassed."



2C. Once the deck is deployed and the home/lip sensor becomes inactive, the control panel light will turn GREEN while flashing YELLOW. This indicates that the vehicle restraint is not engaged.

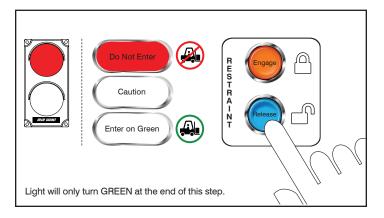


RELEASING THE OVERRIDE FEATURE

1. Store the dock leveler. (NOTE: Override is still active when dock leveler and vehicle restraint are in the parked position). The control panel light will turn RED.

Touch the 'Release' button on the control panel to release the override. The control panel will verify that the vehicle restraint has been lowered to the home position. The LCD screen will read "Blue Genius Ready."

The exterior traffic light will turn GREEN, advising the truck driver that it is safe to depart once the wheel chocks are removed.



9.0 MAINTENANCE



WARNING

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

Do not work under or around the vehicle restraint 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 vehicle restraint pinch points and wear appropriate safety attire - glasses, gloves and work boots.

9.1 PLANNED MAINTENANCE PROGRAM (PMP)

In addition to the daily operator inspection, 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 maintain 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 this manual.

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.

9.2 OPERATOR DAILY INSPECTION

The vehicle restraint 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 PMP Checklist (See Section 9.7 "PMP Checklist - StrongArm™ SVR303 Vehicle Restraint"). The operator should fill out this form to keep a daily record of operation and maintenance issues.

9.3 ROUTINE SERVICING AND MAINTENANCE

Regular maintenance and care of the vehicle restraint is very important for cost, operation efficiency, and operator safety. A faulty vehicle restraint is a potential source of danger to the operator, and to other personnel working near it. As with all quality equipment, keep the vehicle restraint 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.

9.4 PLANNED MAINTENANCE PROGRAM INTERVALS

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

9.5 MAINTENANCE SEQUENCE

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

9.6 RECOMMENDED HYDRAULIC FLUIDS

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

Normal, All Season Weather Conditions:

AW 32 or equivalent.

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

Extreme Low Temperature Conditions:

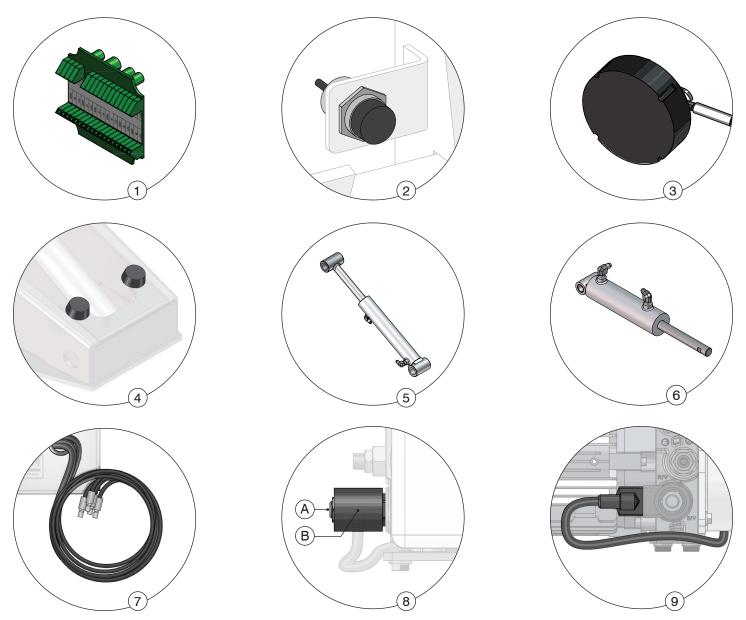
Esso Univis N15 or Gulf Harmony Arctic 15 or suitable equivalent. **Biodegradable:** Esso Univis Bio 40 or suitable equivalent.

9.7 PMP CHECKLIST - STRONGARM™ SVR303 VEHICLE RESTRAINT

| ⚠ DA | NGER |
|---|--|
| | on electrical components, perform lockout / tagout steps and approved electrical codes. |
| ⚠ DANGER | ⚠ WARNING |
| Prior to installation, place adequate barriers to prevent unauthorized personnel and vehicle traffic from entering the work area. | All repairs and maintenance work are to be conducted by trained and authorized personnel ONLY. |
| INSPECTED BY: DAT | 'E: |
| SERIAL #: DOG | OR #: |
| Forward this checklist to the person responsible for dock equipmer Date in Service. INSTRUCTIONS FOR USE: Indicate "OK for USE" with a check ma | |
| EVERY DAY: | EVERY 90 DAYS CONT'D. |
| Remove any debris that may have accumulated around the dock equipment | Check junction box and control panel for proper and secure mounting. Verify that all electrical connections are firm |
| Check dock bumpers/extensions, wall cracks | ☐ Check hydraulic oil level in powerpack |
| Check interior and exterior lights system | Check condition and torque on securing anchors, concrete conditions |
| Check exterior signage Check hydraulic hoses for leaks and/or damage Check safety warning decals and replace if necessary Verify complication-free operation of the Blue Genius™ Control Panel Verify complication-free operation of the dock equipment | □ Verify that the proximity sensors are secure ONCE A YEAR □ Drain, flush, and change the hydraulic reservoir as site / oil type dictate |
| EVERY 90 DAYS (30 DAYS FOR MULTI-SHIFT OPERATIONS) | |
| Perform all "every day" tasks | |
| ☐ Lubricate SVR303 pivot points | |
| ☐ Check powerpack connections, motor and valves | |
| Inspect for damaged or missing parts, rust, corrosion, bent parts, cracks, etc.Check anchors | PHOTOCOPY THIS CHECKLIST AND FILL OUT REGULARLY FOR YOUR RECORDS. |
| Explain faults briefly in the space provided below: | |

10.0 RECOMMENDED SPARE PARTS

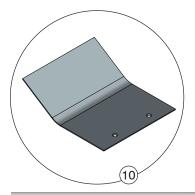
10.1 STANDARD OPERATIONAL COMPONENTS

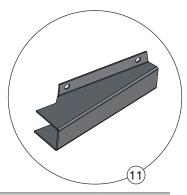


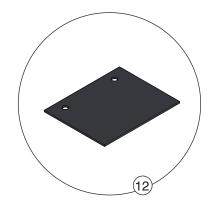
| RSP FOR SVR303 – STANDARD OPERATIONAL COMPONENTS | | | | | | | |
|--|------------|--|--------------|--|--|--|--|
| ITEM | PART NO. | DESCRIPTION | QTY REQ'D | | | | |
| 1 | 026-G025BM | Remote I/O Board (No resistor) | 1 | | | | |
| 2 | 028-206 | Proximity Sensor (30mm Unshield): Home / Lip Sensor with 5m Cable | 1 | | | | |
| 3 | 54-001563 | Position Sensor with Cable | 1 | | | | |
| 4 | 165-9197 | Rubber Bumper | 2 | | | | |
| 5 | 54-001799 | Arm Cylinder with Fittings | 1 | | | | |
| 6 | 54-00004 | Lock Cylinder with Fittings | 1 | | | | |

| RSP FOR SVR303 – STANDARD OPERATIONAL COMPONENTS | | | | | | | |
|--|---|--|---|--|--|--|--|
| PART NO. | DESCRIPTI | QTY REQ'D | | | | | |
| | | | | | | | |
| 100-5022-3 | 21' (6.4m) | Lock | Wall Mount STD. | | | | |
| 100-5022-4 | 23' (7.0m) | Arm | 20' hose run Pit Mount Option | 1 | | | |
| 100-5022-1 | 15' (4.6m) | Lock | | | | | |
| 100-5022-2 | 17' (5.2m) | Arm | 14' hose run | | | | |
| E4.0100E1 | A: HYDPP S | 1 | | | | | |
| 34-012231 | B: Coil (401 | | | | | | |
| 026-G074 | Solenoid Va | Solenoid Valve Connector with Cable | | | | | |
| | PART NO. Hose #4 High (TYP STD. leng 100-5022-3 100-5022-4 100-5022-1 100-5022-2 54-012251 | PART NO. DESCRIPTION Hose #4 High Pressure (TYP STD. length may chan 100-5022-3 21' (6.4m) 100-5022-4 23' (7.0m) 100-5022-1 15' (4.6m) 100-5022-2 17' (5.2m) A: HYDPP S B: Coil (401: | PART NO. DESCRIPTION Hose #4 High Pressure (TYP STD. length may change per 100-5022-3 21' (6.4m) Lock 100-5022-4 23' (7.0m) Arm 100-5022-1 15' (4.6m) Lock 100-5022-2 17' (5.2m) Arm 54-012251 A: HYDPP Solenoid B: Coil (401893) | PART NO. DESCRIPTION Hose #4 High Pressure (TYP. STD. length may change per order requirement) 100-5022-3 21' (6.4m) Lock Wall Mount STD. 20' hose run 100-5022-4 23' (7.0m) Arm 20' hose run 100-5022-1 15' (4.6m) Lock Pit Mount Option 14' hose run 14' hose run A: HYDPP Solenoid Cartridge (411896) B: Coil (401893) | | | |

10.2 COMPONENT SHIELDS

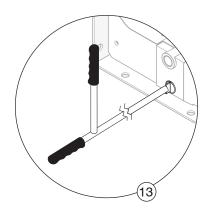


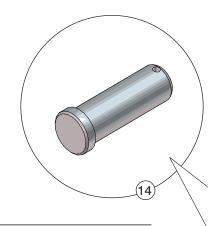


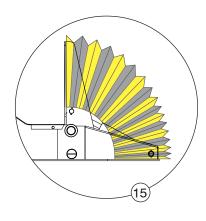


| RSP FOR SVR303 – COMPONENT SHIELDS | | | | | | |
|------------------------------------|--------------|--------------------------|-----------|--|--|--|
| ITEM | PART NO. | DESCRIPTION | QTY REQ'D | | | |
| | 54-010983 | Body Cover | | | | |
| 10 | 54-010983-ZP | Body Cover , Zinc Plated | 1 | | | |
| | 54-001600 | Cable Cover | | | | |
| 11 | 54-001600-ZP | Cable Cover, Zinc Plated | 1 | | | |
| 12 | 54-001608 | Rubber Seal | 1 | | | |

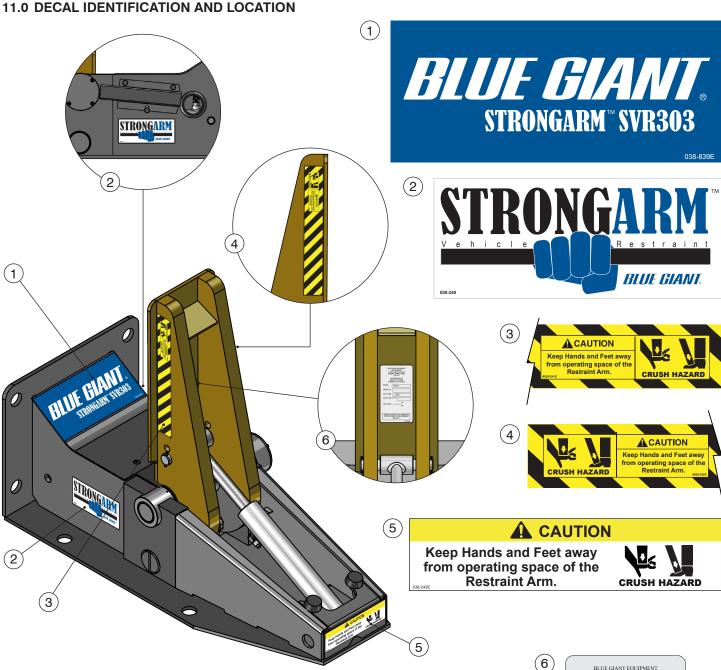
10.3 OPTIONAL SUPPORT COMPONENTS







| RSP FOR SVR303 – OPTIONAL SUPPORT COMPONENTS | | | | | | | | |
|--|-----------|--|-----------|--|--|--|--|--|
| ITEM | PART NO. | DESCRIPTION | QTY REQ'D | | | | | |
| 13 | 54-001682 | Lock Manual Release Tool (Long Handle) | 1 | | | | | |
| 14 | 54-00022 | Rod End Pin (Lock Cylinder) | 1 | | | | | |
| 15 | 54-001686 | Weather / Debris Seal Kit (if previously installed) | 1 | | | | | |

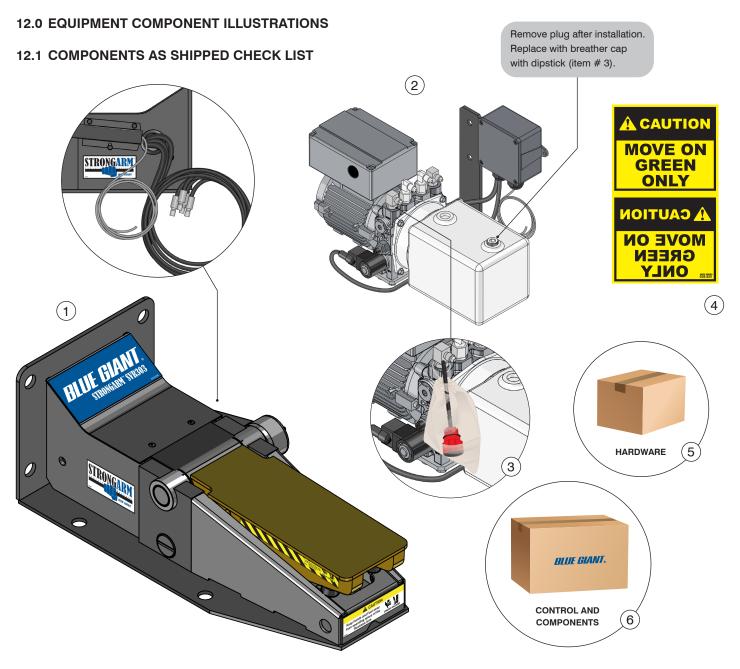


| ITEM | QTY | PART NO. | | DESCRIPTION |
|------|-----------|-----------|---|--|
| 1 | 1 | 038-239 | | Decal - BG SVR303 |
| 2 | 2 | 038-1187E | | Decal - StrongArm™ - Vehicle Restraint |
| 3 | 1 | 038-241E | | Decal - Crush Hazard - Left Side |
| 4 | 1 | 038-242E | | Decal - Crush Hazard - Right Side |
| 5 | 1 | 038-243E | | Decal - Crush Hazard |
| - | 1 038-299 | 000 0005 | F | Decal - Serial Plate - English / French |
| 6 | | 038-299E | S | Decal - Serial Plate - English / Spanish |

BLUE GIANT EQUIPMENT
CORPORATION
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LEW SK2
www.RlueGiant.com
MADE IN CANADA
FABRIQUE AU CANADA
FABRIQUE AU CANADA
MODEL/
NO. DE MODELE
SVR303
SERIAL NO./
NO. DE SERIE
ANSI CODE
MIBIO.3
CONST. MM/YYYY

TEST LOAD/
TEST DE CHARGE

"REFER TO SAFETY AND OPERATING
INSTRUCTIONS IN YOUR OWNERS
MANUAL!"
"VOIR LES CONSIGNES E SECURITE
ET LE MODE DE BMG OD DANS VOTRE
GUIDE D'UTILISATION:"
018-290FF



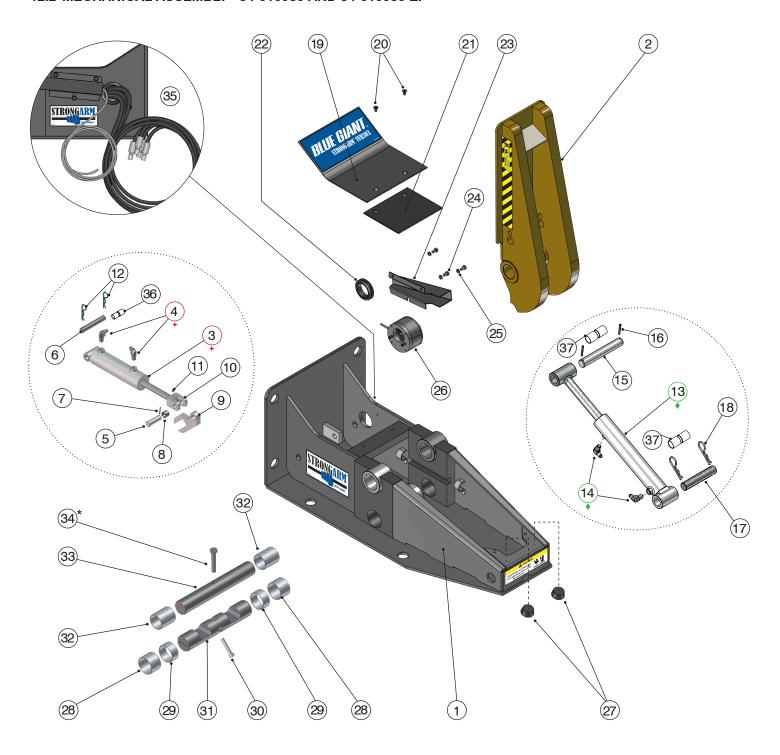
| ✓ | ITEM | QTY | PART NO. | | DESCRIPTION | APPROX. WEIGHT | |
|---|------|-----|------------|-------------|---|----------------|----------|
| | | | 54-010980 | | SVR303 Body | 255 lb | 116 kg |
| | 1 | ' | 54-010980- | ZP | SVR303 Body, Zinc Plated | 255 10 | 116 kg |
| | 2 | 1 | 54-011700 | | Powerpack (See Section 12.5 for Voltages) | 34 lb | 15 kg |
| | 3 | 1 | 412601 | | Breather Cap with Dipstick | < .5 lb | < .22 kg |
| | 4 | 1 | 038-225 | E F S | Exterior Driver Warning Sign (English / French / Spanish) | 0.7 lb | 0.32 kg |

| ITEN | ITEM # 5 - HARDWARE INCLUDED: | | | | | | |
|------|-------------------------------|----------|---------------------------------|--------|--------|--|--|
| ✓ | QTY | PART NO. | DESCRIPTION APPROX. WEI | | WEIGHT | | |
| | 4 | 010-213 | 3/4" x 7" Expansion Anchors KB3 | .15 lb | .06 kg | | |

| ITEM # 6 - CONTROL | AND COMPONENTS | INCLUDED: |
|--------------------|----------------|-----------|

| ✓ | QTY | PART NO. DESCRIPTION APPROX. WEI | | . WEIGHT | |
|----------|-----|--------------------------------------|--|----------|---------|
| | 1 | BGG0S_F See Sec 12.6 | Complete Control Assembly English / French | 6.2 lb | 0.91 kg |
| | | BGG0S_S See Sec 12.6 | Complete Control Assembly English / Spanish | 0.∠ ID | 2.81 kg |
| | 1 | 038-761E | Operation Placard | _ | _ |
| | | 038-701E | SVR303 Owner's Manual | _ | _ |
| | 1 | 032-806 | Exterior Traffic Light | 1.3 lb | 0.6 kg |
| Res | | Restraint Interl | ock: | | |
| | 1 | 028-206 | Lip sensor | 0.416 | 0.1816 |
| | 1 | 21-002154 Mounting Bracket 0.4 lb 0. | | 0.18 kg | |

12.2 MECHANICAL ASSEMBLY - 54-010980 AND 54-010980-ZP



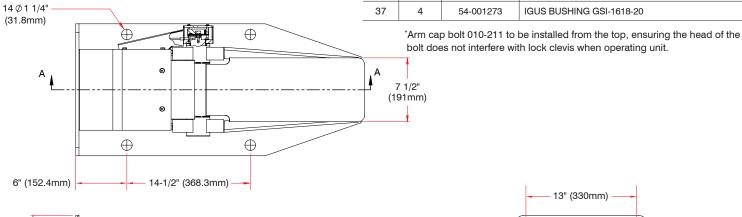
| NOTE | PART NO. | DESCRIPTION |
|------|-----------|---|
| + | 54-00004 | Lock cylinder assembly includes parts highlighted |
| • | 54-001799 | Arm cylinder assembly includes parts highlighted |

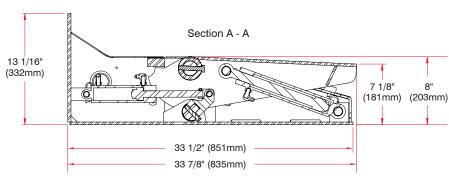
12.2 MECHANICAL ASSEMBLY - 54-010980 AND 54-010980-ZP CONT'D.

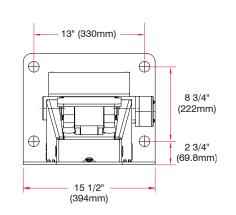
| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|-------|-------------------|-------------------------------------|
| 4 | _ | 54-010979 | Chassis Weldment |
| ı | 1 1 | 54-010979-ZP | Chassis Weldment, Zinc Plated |
| 2 | 1 | 54-011050 | Arm Weldment |
| 3 | 1 | 1 54 00004 | Lock Cylinder (Part No. 54-00007-K) |
| 4 | 2 | † 54-00004 | Fitting (Part No. 034-619) |
| 5 | 1 | 54-00022 | Rod End Pin |
| 6 | 1 | 54-000513 | Lock Clevis Pin |
| 7 | 1 | 013-020 | Spring Pin 1/8 Dia. x 1" |
| 8 | 1 | 018-638-1 | Plastic Bushing 5/8" x 5/8" L |
| 9 | 1 | 54-00043 | Lug |
| 10 | 1 | 54-00008 | Clevis |
| 11 | 1 | 014-013 | Allen Set Screw 1/4 x 28 UNF |
| 12 | 2 | 013-028 | Hairpin Cotter |
| 13 | 1 | A 54 004700 | Arm Cylinder (Part No. 54-001273-K) |
| 14 | 2 | \$ 54-001799 | Fitting (Part No. 034-619) |
| 15 | 1 | 54-00021 | Arm Rod End Pin |
| 16 | 2 | 013-127 | 3/16 Dia. Spring Pin x 1.50 |
| 17 | 1 | 54-000506 | Arm Clevis Pin |
| 18 | 2 | 013-029 | Hairpin Cotter |
| 19 | 1 | 54-010983 | Body Cover |
| 19 | ı | 54-010983-ZP | Body Cover , Zinc Plated |
| 20 | 2 | 011-037 | FHSCS |

| ITEM | QTY | PART NO. | DESCRIP | DESCRIPTION | | |
|------|-----|--|--------------------------|----------------|-----------------------------|--|
| 21 | 1 | 54-001608 | Rubber Se | Rubber Seal | | |
| 22 | 1 | 037-090 | Rubber Gr | Rubber Grommet | | |
| 23 | 1 | 54-001600 | Cable Cover | | | |
| | 1 | 54-001600-ZP | Cable Cov | er, Zinc P | lated | |
| 24 | 3 | 010-072 | Cap Screw | 1/4-20 x | 1/2 HH | |
| 25 | 3 | 012-202 | Regular Sp | ring Lock | Washers (U.S.) | |
| | | 54-011350 | Sensor Hu | b Assemb | ly (See Section 12.4) | |
| 26 | 1 | 54-011350-ZP | Sensor Hu Plated | b Assemb | ly (See Section 12.4), Zinc | |
| 27 | 2 | 165-9197 | Rubber Bu | mper | | |
| 28 | 2 | 018-635-1 | Plastic Bus | hing 2" Di | a. x 1-1/2" L | |
| 29 | 2 | 018-634-1 | Plastic Bus | hing 2" Di | a. x 1" L | |
| 30 | 1 | 011-184 | Socket Hea | ad Cap Sc | crew 3/8 x 24UNF x 2 | |
| 31 | 1 | 54-000534 | Lock Pin | | | |
| 32 | 2 | 018-636-1 | Plastic Bus | hing 1-3/4 | 1" Dia. x 2" L | |
| 33 | 1 | 54-006851-1 | Arm Pivot I | Pin | | |
| 34* | 1 | 010-211 | Hex Head | Cap Bolt 1 | /2 -13 UNC x 2 3/4 | |
| | | Not in this asser | nbly. These | items are | e sold separately. | |
| | | Hose #4 High Press (TYP. STD. Length mapplication lengths s | ay change per | application | requirement, default | |
| 35 | 2 | 100-5022-3 | 21' (6.4m) | Lock | Wall Mount STD. | |
| | 2 | 100-5022-4 | 23' (7.0m) | Arm | 20' hose run | |
| | 2 | 100-5022-1 | 15' (4.6m) | Lock | Pit Mount Option | |
| | 2 | 100-5022-2 | 17' (5.2m) | Arm | 14' hose run | |
| 36 | 2 | 54-00007 | IGUS BUSHING GSI-1011-16 | | | |
| 37 | 4 | 54-001273 | IGUS BUSHING GSI-1618-20 | | | |

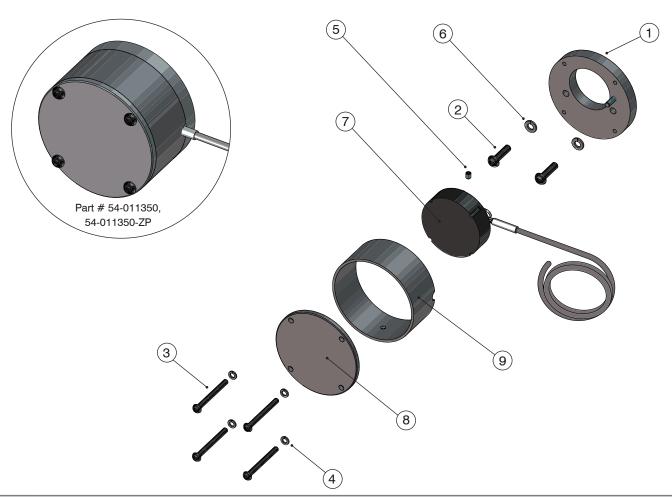
12.3 **GENERAL DIMENSIONS**





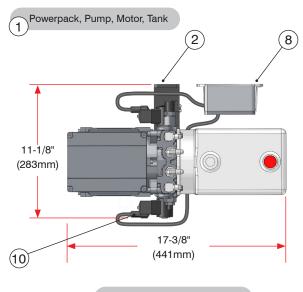


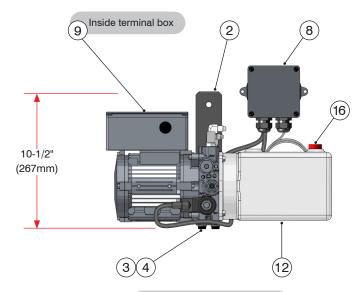
12.4 RESTRAINT ARM SENSOR ASSEMBLY



| SVR30 | SVR303 RESTRAINT ARM SENSOR ASSEMBLY # 54-011350 AND 54-011350-ZP | | | | | |
|-------|---|----------------|---|---|--------------|----------------------|
| ITEM | QTY | PART NO. | DESCRIPTION | | | |
| 1 | 1 | 54-006834-1 | Base Plate Assembly | | | |
| | ı | 54-006834-1-ZP | Base Plate Assembly, Zinc Plate | | | |
| 2 | 2 | 010-224 | Button HD Cap Screw 1/4-20 x 1" | | | |
| 3 | 4 | 010-223 | Button HD Cap Screw 10-24 x 2" SS | | | |
| 4 | 4 | 012-225 | Internal Tooth Lock Washer #10 | | | |
| 5 | 1 | 014-000 | Cup Point SSS #10-24 UNC x 1/4 (U.S.) | | | |
| 6 | 2 | 012-202 | Spring Lock Washer 1/4" | | | |
| 7 | 1 | 54-001563 | Intelligent Position Sensor (IPS) with Comm Cable | | | |
| | _ | 54-011049 | Hub Lid | | | |
| 8 | 8 1 | 1 | 1 | 1 | 54-011049-ZP | Hub Lid, Zinc Plated |
| 9 | 1 | 54-011226 | Hub Ring | | | |
| 9 | | 54-011226-ZP | Hub Ring, Zinc Plated | | | |

12.5 POWERPACK PART IDENTIFICATION

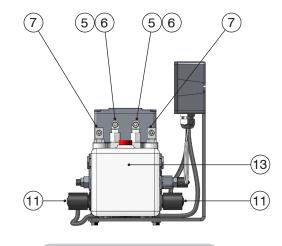




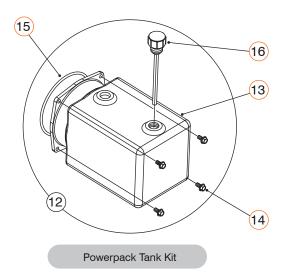
Top View - Wall Mount

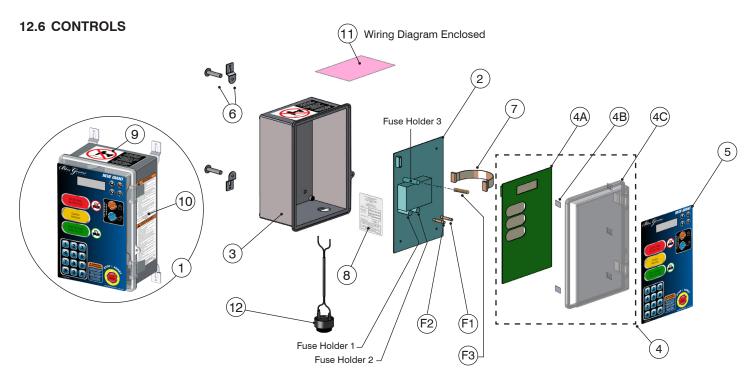
Front View - Wall Mount

| sv | SVR303 POWERPACK - WALL BRACKET ASSEMBLY # 54-011700 | | | | | | |
|-----|--|-----|-------------|---|---------------------|--|--|
| ITE | ΞМ | QTY | PART NO. | DESCRIPTION | ITEM #1 | | |
| | | | 54-011700-1 | SVR303 PP 1PH-115/230V-50/60HZ | 033-441-K | | |
| | 1 | 1 | 54-011700-2 | SVR303 PP 3PH-230/460V-50/60HZ | 033-445-K | | |
| | | | 54-011700-3 | SVR303 PP 3PH-575V-60HZ | 033-447-K | | |
| 2 | 2 | 1 | 54-011699 | Wall Bracket - SVR303 Pov | verpack | | |
| 3 | 3 | 4 | 010-188 | Hex Head Socket 1/2 NPT | Cap Screws (Metric) | | |
| | 4 | 4 | 012-201 | Lock Washers 3/8" Helical | | | |
| | 5 | 2 | 034-580 | 3/8 Male O-Ring to Female | Pipe | | |
| (| 3 | 2 | 034-619 | Fitting (4MJ - 4MP - 90) | | | |
| 7 | 7 | 2 | 034-769 | Fitting (6MB - 4MJ - 90) | | | |
| 8 | 3 | 1 | 026-H24 | Junction Box Assembly (S | ee Section 12.7) | | |
| 9 | 9 | 1 | 025-172 | Terminal Blocks 0.32" x 11 | | | |
| 1 | 0 | 2 | 026-G074 | Solenoid Valve Connector | with Cable | | |
| 1 | 1 | 2 | 54-012251 | Solenoid Cartridge and Co | pil | | |
| 1 | 2 | 1 | 54-012250 | Tank (Resevoir Oil) Kit w/ "O" Ring (NOTE: Hardware includes parts highlighted ∫) | | | |
| ſ | 13 | 1 | 412014 | Tank | | | |
| ſ | 14 | 4 | 400740 | Tank Bolt | | | |
| ſ | 15 | 1 | 401009 | "O" Ring for Tank | | | |
| ſ | 16 | 1 | 401504 | Breather Cap with Dipstick | | | |



Side View (Tank End) - Wall Mount





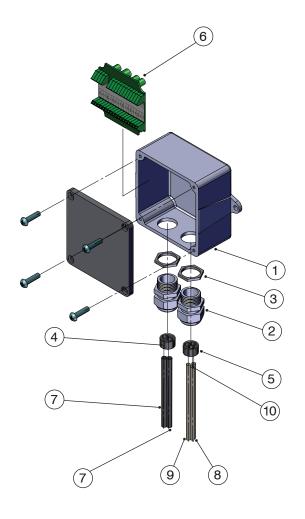
| COMPLETE CONTROL STATION ASSEMBLY - ITEM 1 (Example BGG0S1115F) | | | | | | | | |
|---|----------|----------|------------|------------------------------------|---|-------------------------------|-----------|---|
| ITEM | SINGLE | PHASE | | | | | | |
| | ◊ | FUSE | QTY | PART NO. | DESCRIPTION | ASSY PART # | * | |
| | F1 | Α | 1 | | Power Board | | F | |
| | F2 | E | 1 | 026-PB1115 | Sub-Assembly † (1PH 115V 50-60HZ) | BGG0S1115 | S | |
| | F1 | | 1 | 000 PR4000 | Power Board | D00004000 | F | |
| | F2 | С | 1 | 026-PB1230 | Sub-Assembly † (1PH 230V 50-60HZ) | BGG0S1230 | S | |
| | THREE | PHASE | | | | | | |
| | ◊ | FUSE | QTY | PART NO. | DESCRIPTION | ASSY PART # | * | |
| 2 | F1 | С | | 1 | 026-PB3230 | Power Board Sub-Assembly † | BGG0S3230 | F |
| | F2 | | 1 | 020-1 00200 | (3PH 230V 50-60HZ) | DGG053230 | S | |
| | F1 | F | 1 | 026-PB3400 | Power Board Sub-Assembly † | BGG0S3400 | F | |
| | F2 | Г | 1 | | (3PH 400V 50-60HZ) | BGG053400 | S | |
| | F1 | G | 1 | 000 BB0 400 | Power Board Sub-Assembly † | BGG0S3460 | F | |
| | F2 | G | 1 | 026-PB3460 | (3PH 460V 50-60HZ) | BGG055400 | S | |
| | F1 | Н | 1 | 026-PB3575 | Power Board Sub-Assembly † | DCC000E7E | F | |
| | F2 | П | 1 | 020-PB3575 | (3PH 575V 60HZ) | BGG0S3575 | S | |
| 3 | | | 1 | 025-G010-M | Control Box Enclosure | (Includes 4C) | | |
| 4 | | | 1 | 025-G014-V3-M | Transparent Cover Doc Control Board (4A) (Se | ` ' | | |
| 4A | | | 1 | 026-G021-M | Touch Control Board (S | Serial # Required) | | |
| 4B | | | 5 | 025-062 | Cable Tie Mount | | | |
| 4C | | | 1 | 025-G014 | Transparent Cover Door | | | |
| 5 * Langi | Jage on | decal: F | 1 = Eng | 038-245E F S lish / French S | Face Decal = English / Spanish | | | |

| ITEM | QTY | PART NO. | | DESCRIPTION |
|------|-----|------------|--------|--|
| 6 | 1 | 025-G010 | 0-1 | Mounting Tabs with Hardware (1 pkg of 4) |
| 7 | 1 | 026-G03 | 30 | Ribbon Cable |
| 8 | 1 | 038-284E | F S | Decal, Serial Plate |
| 9 | 1 | 038-283EFS | | Decal, Do Not Drill |
| 10 | 1 | 038-853E F | | Warning Decal |
| 11 | 1 | 026-615-1 | | Anti-Static Poly Bag (Wiring Diagram Enclosed) (Serial # required for diagram) |
| 12 | 1 | 026-G402-B | | Audible Speaker |
| F3 | 1 | 026-037 | -1 | Fuse, 2.5A, 700V, Fast-Blow 1/4" Glass |

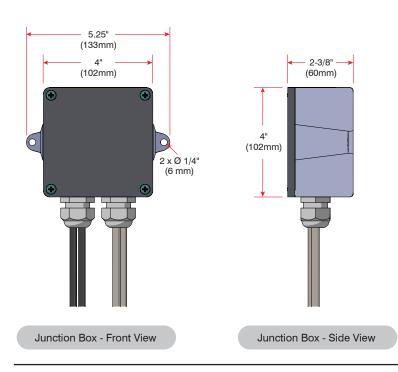
| AS PER VOLTAGE - SEE ITEM 1 | | | | |
|-----------------------------|-----|----------|--|--|
| ITEM | QTY | PART NO. | DESCRIPTION | |
| Α | 1 | 026-G100 | Fuse, 15A, 250V, Time Delay for 1PH, 110-130V | |
| В | 1 | 026-G101 | Fuse, 8A, 250V, Time Delay for 1PH, 208-240V | |
| С | 1 | 026-G102 | Fuse, 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 | |
| Е | 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 | |
| Н | 1 | 026-G107 | Fuse, 315mA, 700V, Fast Acting for 3PH, 575-600V | |

12.7 JUNCTION BOX W/REMOTE I/O

| SVR30 | SVR303 REMOTE I/O HARNESS ASSEMBLY # 026-H24 | | | | | |
|-------|--|---------------|--|--|--|--|
| ITEM | QTY | PART NO. | DESCRIPTION | | | |
| 1 | 1 | 025-G020M | Junction Box 4" x 4" (2 Holes) | | | |
| 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 | 2 | 026-G074 | Solenoid Valve Connector - 3' (914mm) | | | |
| 8 | 1 | 026-H16-1 | Communication Cable to Blue Genius™- 30' (9.14 m) | | | |
| 9 | 1 | 54-001563 | IPS Sensor | | | |
| 10 | 1 | 026-G035-2400 | Unshielded Home / Lip Cable - 3 Wire - 20' (6.09 m) | | | |



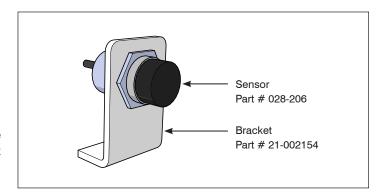
12.7.1 JUNCTION BOX DIMENSIONS



12.8 RESTRAINT INTERLOCK SENSOR

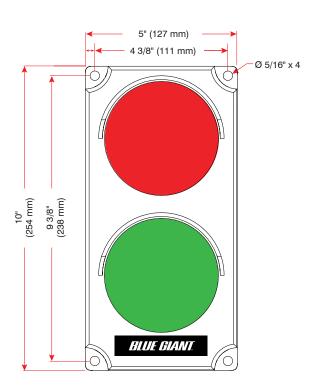
- Ties sequence of dock leveler to vehicle restraint operation
- Loading dock safety is improved with accurate operation sequence
- Interior traffic light and restraint release operation relies on interlock capability
- Mounted at parked position of any leveler

Alternatively, if dock leveler is not equipped, this function can be tied to overhead door operation sequence. In lieu of the interlock sensor, mount a photo eye at the door closed position.



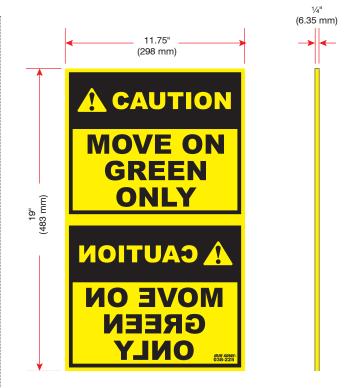
12.9 EXTERIOR TRAFFIC LIGHT / MIRROR IMAGE SIGN

The LED traffic lights and mirror image drive warning sign improve loading dock safety.



Exterior driver traffic light, part # 032-806.

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)

13.0 VEHICLE RESTRAINT 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 |
|---|---|
| The restraint arm will not rise when the ENGAGE button is touched. | Faulty wiring, connection or broken wire. Refer to electrical wiring diagram. Power source problem. Check incoming voltage and compare to data nameplate voltage. Restraint apparatus is seized. Check for foreign objects such as broken wooden pallet splitters. The controls are in bypass mode. Press RELEASE button and then ENGAGE button. Restraint option not chosen in menu. Restraint motor connected to incorrect motor terminal. |
| The restraint arm will not lower when the RELEASE button is touched. | Faulty wiring or connections. Refer to electrical wiring diagram. Arm was improperly engaged. Restraint apparatus is blocked from coming down. Check for foreign objects. Trailer load on restraint arm causing pressure on lock release. Back up trailer. The dock leveler deck is not restored to the home position properly. Locking mechanism is seizing. |
| Restraint is engaged but the inside light is still red. | Dock leveler not deployed. Restraint interlock sensor still sees lip. |
| Restraint works but LED cover lights are not lit. LCD display is working. | Power source for lights is damaged. Replace control board. |
| Exterior traffic lights are dim, displaying incorrectly (wrong color) or malfunctioning (only one light works). | Check wiring to lights. Ensure that the +24 red exterior light is connected to terminal # 12 on the control terminal strip label 1 to 14 and that the +24 green light is connected to terminal #13 and the common of the lights are connected to terminal #14. Lights common wire is terminated in wrong terminal (other than #14). |
| The restraint is in the parked position and the inside light is green with yellow light flashing. | The restraint is in the bypass mode. Restraint interlock sensor is not active. |
| The restraint is powered on. LCD screen displays the message 'Restraint is Bypassed'. The control panel lights are green and flashing yellow while the exterior traffic light is red. | The dock leveler is either not parked or the dock's home / lip sensor does not detect it as being in the parked position. |

14.0 BLUE GENIUS™ LCD MESSAGES

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.

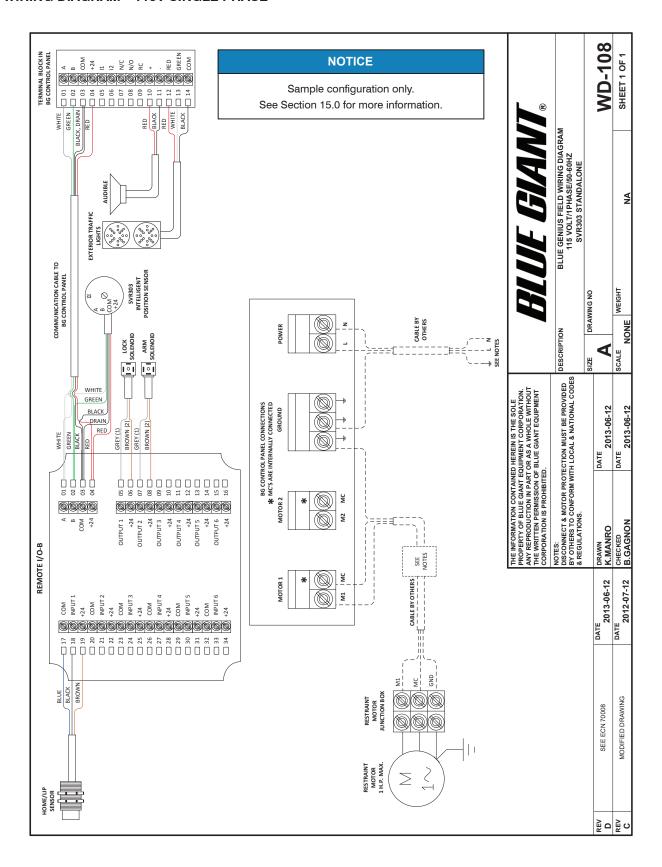
| MESSAGE | EXPLANATION |
|--|--|
| 'Fault 31' IPS sensor value too low | IPS shaft not secured by set screw, tighten set screw making sure the IPS green LED light is lit with the restraint arm in its fully lowered position. NOTE: the set screw does not tighten down on the flat of the IPS shaft. IPS not programmed. See set-up procedure. Home value is not set in range. Consult factory or dealer. |
| During self test mode the following message appear: 'Remote I/O Bad' 'Positioner Bad' | Faulty wiring, communication cable not connected or damaged. Blue Genius[™] communication chip faulty. |
| 'Please restore Dock Leveler' | Restraint interlock sensor (home/lip) is in-active, out of range. Restraint interlock sensor (home/lip) is not connected. Faulty wiring. Dock not in stored/home position. Sensor is faulty, replace. |
| 'ICC Bar not in Range' | Restraint arm went up and did not find ICC bar in preset range. IPS not programmed. |
| 'Fault 10' Communication error | Faulty wiring, check for loose or broken communication cable wire(s). Noise interference, check routing of communication from Blue Genius[™] controls to remote devices. |
| 'Restraint Arm Blocked' Followed by: 'Restore Restraint, press 'SEL' to continue, Blue Genius Warning' (repeats) | Restraint arm failed to lower all the way down. Check for debris. Faulty IPS board. |
| 'Restraint is Engaged' Followed by: 'Dock Leveler Restored', 'Ready to Deploy Deck'. (repeats) | The Engaged button has been touched and vehicle restraint is in locked position. |
| During self test mode the following message appears: 'Remote I/O Bad' | Faulty wiring, check communication cable wires for loose connections. Remote I/O is faulty, replace. Blue Genius[™] power board is faulty, replace. |
| During self test mode the following message appears: 'Positioner Bad' | Faulty wiring, check communication cable wires for loose connections. IPS board is faulty, replace. Blue Genius[™] power board is faulty, replace. |

15.0 WIRING DIAGRAMS

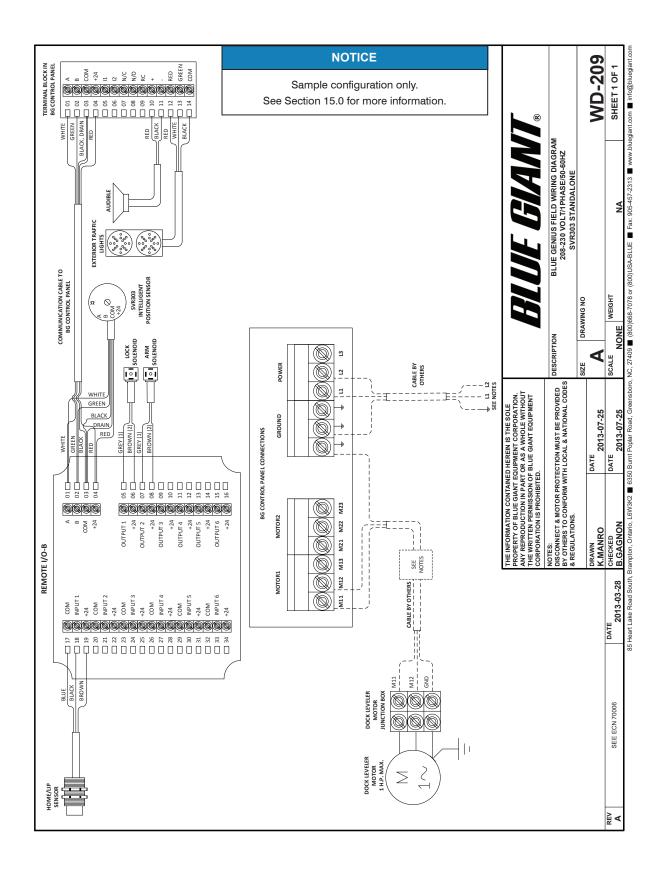
NOTICE

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.

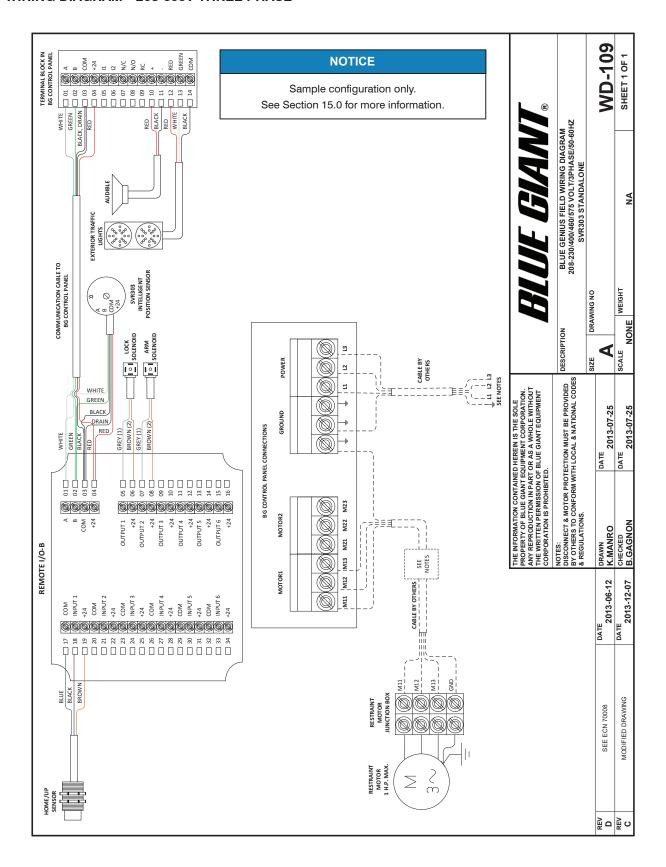
15.1 WIRING DIAGRAM—115V SINGLE PHASE



15.2 WIRING DIAGRAM—230V SINGLE PHASE



15.3 WIRING DIAGRAM—208-600V THREE PHASE



NOTES

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