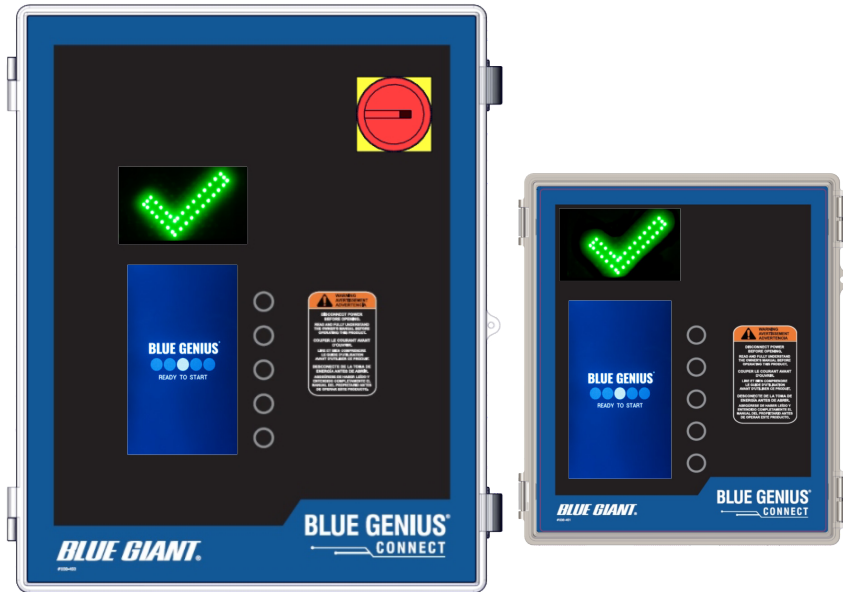


# OWNER'S MANUAL

## BLUE GENIUS<sup>®</sup> CONTROL PANEL BLUE GENIUS<sup>®</sup> CONNECT BLUE GENIUS<sup>®</sup> CONNECT PLUS



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 bodily injury or death.

**BLUE GIANT<sup>®</sup>**

STARTING FROM MARCH 7, 2025 / SERIAL #

ISSUE DATE: MARCH 4, 2025 REV. 1.0 (PART # 038-1169E)



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## 1.0 BLUE GENIUS® CONNECT MASTER CONTROL PAN ELS

Blue Genius® Connect and Blue Genius® Connect Plus Control Panels represent the highest level in loading dock safety and productivity.

An interior and exterior lights communication system keeps truck drivers and warehouse personnel advised of safety conditions during dock operations.

The Blue Genius® Connect consolidate the controls for multiple interconnected dock devices:

- Dock leveler
- Vehicle restraint
- Overhead door
- Inflatable seal
- Dock lights
- Communications - Traffic lights (trailer and forklift) and LED menu screen

The equipment operation sequence is structured to ensure safety and efficiency. The LED menu screen provides ongoing equipment status as well as instructions for operating and troubleshooting. The interior and exterior LED light communication system displays safety signals to truck drivers and dock personnel. The rotary disconnect Blue Genius® Connect Plus cuts power to the unit for routine servicing and maintenance.

## 1.1 OWNER’S PURCHASE RECORD

Please record information for future inquiries and to validate warranty. See “2.1 WARRANTY INFORMATION” on page 6.

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

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 “2.2 EXCLUSION OF LIABILITY” on page 6 of this manual). 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 Blue Genius® Control Panel. 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 Control Panel. 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), Provinces, or Territories.

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



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 Customer Support Team 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](http://www.BlueGiant.com).

For more information about Blue Giant Warranty Support, please contact your Blue Giant Dealer. You may also visit [www.BlueGiant.com](http://www.BlueGiant.com) or phone 1.905.457.3900.

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

### DEALER INFORMATION

Name:

---

Contact:

---

Telephone:

---

## 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 Blue Genius® Control Panel. The manufacturer 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. Please see "2.4 OWNER'S RESPONSIBILITY" on page 7.

## 2.3 MANUFACTURER'S NOTE

The Blue Genius® Connect has been carefully inspected and tested at the manufacturer's plant prior to shipment, but it **MUST be checked** upon receipt for transport damage. Any observed transport damage is to be listed on the signed copy of the freight document. There are many configurations or custom designs whose specifications may not be fully reflected in this manual. Contact your Blue Giant Dealer to obtain the General Arrangement drawing for application specific designs.

**Notify the freight forwarder, Blue Giant, and the dealer of any damage WITHIN 24 HOURS.**

## 2.4 OWNER'S RESPONSIBILITY

The Blue Genius® Connect needs to be maintained and inspected by the owner to verify its safe condition for operation.

1. The owner should recognize the inherent danger of the interface between the Blue Genius® Connect and the freight carrier. The owner should, therefore, train and instruct operators in the safe use of the Blue Genius® Control Panel and accessories in accordance with the manufacturer's recommendations.
2. The owner should thoroughly familiarize themselves with the following procedures and specifications as referenced in this manual, and request immediate replacement of all manufacturer-supplied documents that are missing, damaged, or otherwise illegible. Owners shall apply sound principles of safety, training, inspection, maintenance, and expected operating environment toward their Blue Genius® Connect usage and maintenance requirements.
  - Commissioning instructions
  - Operating instructions
  - Daily maintenance procedures checklist
  - Inspections procedures
  - Recommended spare parts lists

Upon receipt of any newly purchased Blue Genius® Control Panel, 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 Blue Genius® Control Panels shall undergo regularly scheduled planned maintenance. Maintenance requirements will vary according to usage frequency and application, so the owner shall contact with their authorized Blue Giant distributor for schedule recommendation. Written records of the performance of these procedures shall be kept as per warranty requirements and per local state or provincial requirements. Please see "7.0 MAINTENANCE" on page 28.
4. A Blue Genius® Connect 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, Blue Genius® Control Panel 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, please contact your Blue Giant Dealer.
6. The owner shall ensure that all nameplates and safety labels are in place and legible, and that the appropriate manuals are provided to authorized users. Replacement nameplates, safety labels, and manuals are available through the Blue Giant Aftermarket Department.
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 Blue Genius® Control Panel.

8. Unless specifically agreed to in writing by Blue Giant Equipment Corporation at the time of order (and prior to manufacture), all Blue Genius® Control Panels are 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 Blue Genius® Control Panel.
9. If, at the request of the owner, Blue Giant does not supply all or some of the Blue Genius® Control Panel components, the owner shall assume responsibility for any and all operational and safety issues associated with the resulting configuration.
10. The owner must adhere to the load classification information provided on the product nameplate. Failure to do so will void product warranty and can result in serious injury, including death.
11. Operational placards must be visible from equipment location and permanently attached to a wall or structure.
12. The owner shall ensure that inspections are performed to the control panel as prescribed by law or regulation.



### 3.0 SAFETY MESSAGE COLOR IDENTIFICATION

This manual includes color-coded safety messages that clarify instructions and specify areas where potential hazard exists. To reduce the possibility of equipment damage and serious injury or death, please follow the instructions and understand the 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.

|   |
|---|
|  <b>DANGER</b> |
| Serious injury or death will likely occur if the instructions are not followed.                 |


|  |
|--|
|  <b>WARNING</b> |
| Serious injury or death may occur if the instructions are not followed.                          |


|  |
|--|
|  <b>CAUTION</b>               |
| Instructions marked caution concern safe operating procedure. Failure to comply may result in personal injury. |


|   |
|---|
| <b>NOTICE</b>   |
| Procedures marked notice must be followed in order to reduce damage to machinery. |

### 3.1 OPERATIONAL SAFETY WARNINGS

These are safety warnings that may be part of a procedure or hardware warning decal.

|   |
|---|
|  <b>DANGER</b>  |
| <ul style="list-style-type: none"> <li>• BEFORE BEGINNING ANY SERVICE PROCEDURES:             <ul style="list-style-type: none"> <li>– Disconnect the power and follow all lockout / tagout procedures, as per OSHA requirements. Refer to wiring diagrams.</li> </ul> </li> <li>• Installation must be performed only by trained and authorized personnel.</li> <li>• Prior to installation, place adequate barriers to prevent vehicle traffic from entering the work area.</li> <li>• During installation, anchors must be properly torqued to achieve the necessary anchoring strength. <b>DO NOT USE IMPACT DRIVERS.</b></li> <li>• Any electrical work must be performed by qualified personnel only.</li> <li>• Do not remove the wheel chocks until loading /unloading is finished and the truck is cleared for departure and the lights have changed to RED inside and GREEN outside.</li> </ul> |

|  |
|--|
|  <b>WARNING</b>   |
| <ul style="list-style-type: none"> <li>• Do not ground welding equipment to any electrical components.</li> <li>• Do not allow the drill to go too deeply into the control box, as damage may occur to the control systems.</li> <li>• Never use air to blow debris from the control box. Use a vacuum to perform any necessary cleaning.</li> <li>• Do not connect green ground lead into control box or junction box until all welding has been completed.</li> <li>• Improper adjustments may cause operational problems with equipment.</li> </ul> |

|  |
|--|
|  <b>CAUTION</b>   |
| <ul style="list-style-type: none"> <li>• Only trained personnel should operate or service this equipment.</li> <li>• Do not operate the Blue Genius® Control Panel until the transport vehicle is parked against the dock bumpers.</li> <li>• Conduct routine inspections and maintenance. Failure to do so could cause equipment damage and or personal injury.</li> <li>• Always call your authorized service representative or manufacturer immediately if a malfunction occurs.</li> </ul> |

NOTICE

- Do not ground welding equipment to any electrical components.
- Do not allow the drill to go too deeply when drilling holes in the control box. Damage to the control systems may occur.
- Never use air to blow debris from control box. Use a vacuum to remove debris from control box.
- Do not connect green ground lead into control box until all welding has been completed.
- Always keep the work area clean and free of litter.
- Always clean all side openings of dirt and debris.
- Always clean up dry and liquid spills immediately after they occur.
- Always maintain proper lighting in the work area.
- If a procedure is not clearly defined in this manual, contact your Blue Giant Dealer.

## 4.0 LOCKOUT / TAGOUT PROCEDURE AND RULES

In accordance with the rules and regulations of the Occupational Safety and Health Administration (OSHA) and/or local jurisdiction, 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 verify 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 and/or local jurisdiction lockout devices and procedures be utilized.

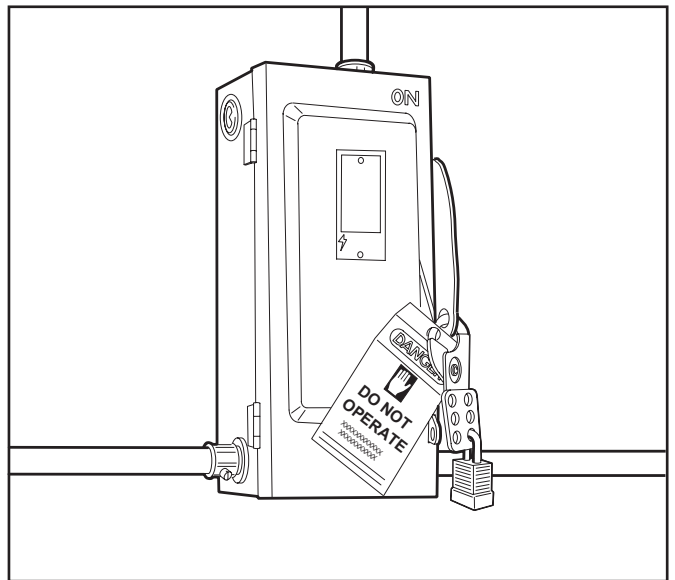
The energy isolating device must bear a prominent warning tag indicating that work is being done on the equipment and the name of the authorized employee responsible for the lockout.

It is mandatory that tagout notices shall **NOT** be susceptible to deterioration or illegibility due to weather conditions, exposure to chemicals and/or moisture.

### WARNING

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. Refer to wiring diagrams.

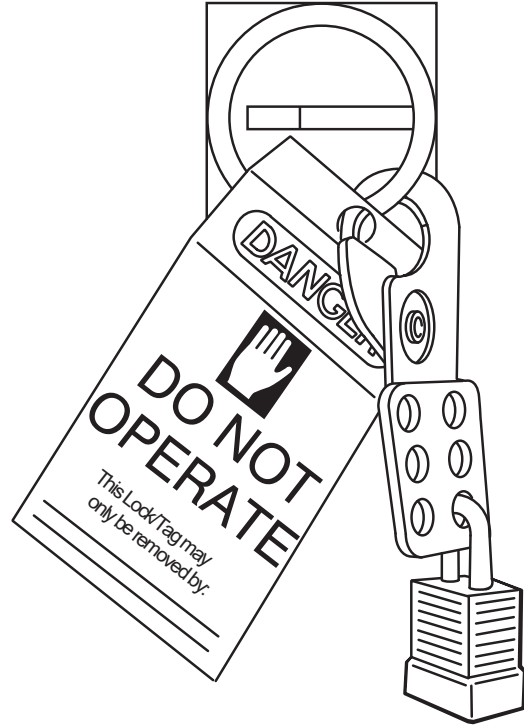
An example of lockout / tagout. Verify and comply with local codes/regulatory requirements.



An example of lockout / tagout. Verify and comply with local codes/regulatory requirements.

## 4.1 ROTARY DISCONNECT: BLUE GENIUS® CONNECT PLUS

The Blue Genius® Connect Plus has a built-in rotary disconnect. The disconnect has two switch positions: ON and OFF, and can be locked in either position.



An example of lockout / tagout. Verify and comply with local codes/regulatory requirements.

## 4.2 ELECTROSTATIC SENSITIVE DEVICE PROTECTION POLICY

This policy applies to static sensitive electronic products primarily printed circuit boards (PCBs) and sensors. Switches, relay, lamps and wire are not sensitive and do not apply.

If welding near ESD components, correctly protect and ground all necessary equipment.



1. Prior to handling PCBs, wear a static grounding wrist strap and clip it to an electrical ground. The metal plate on the inside of the wristband must be in contact with the wearers skin.
2. PCBs should never be handed to other personnel or set down anywhere.
3. Place PCBs in black ESD shielding bags for return or storage. Only one PCB or sensor should be placed in a static bag. Attach paperwork and other items to the outside with adhesive pouches or elastic bands.
4. The control boxes protect the PCBs inside from static, and should not be used to store manuals or other accessories.

## 5.0 CONTROL STATION OPERATION

Depending on the specific installation, the control station may be mounted on an adjacent wall. See “6.0 OPERATING INSTRUCTIONS” on page 15 for more information.

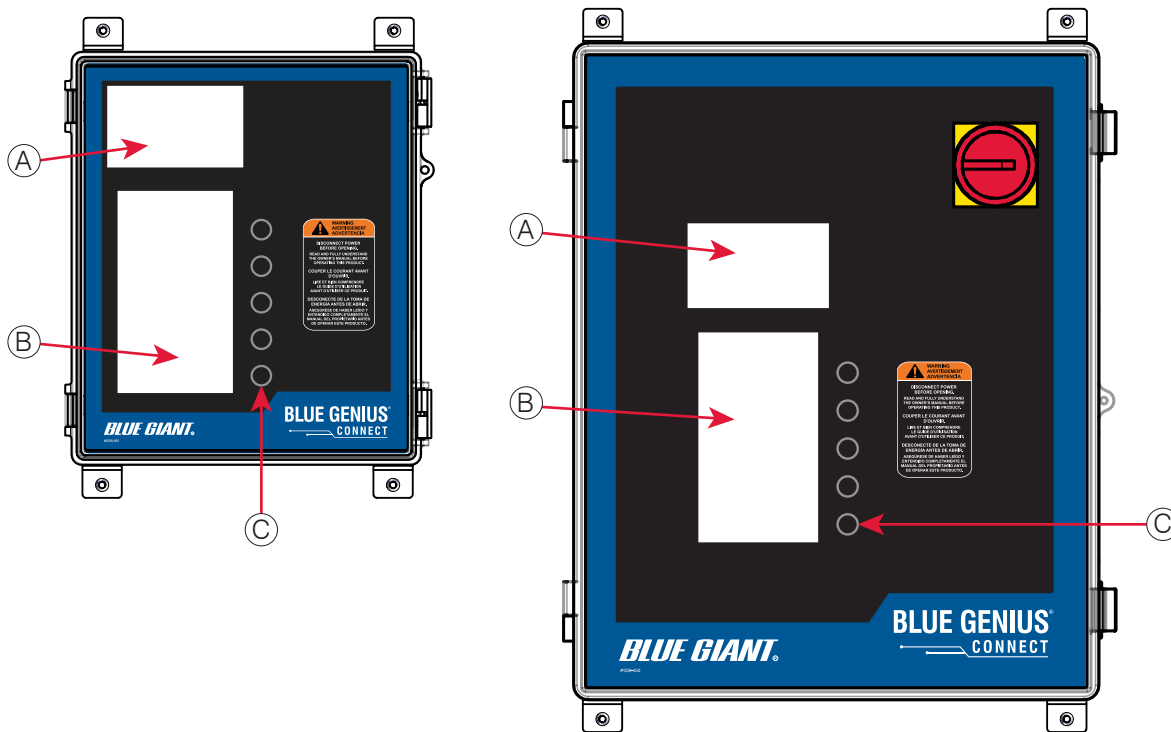
### 5.1 TOUCH BUTTON CONTROLS

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

See below for names of components. These names will be used throughout the manual.

#### ⚠ WARNING

- Do not install, operate, or service this product unless you have read and followed the safety practices, warnings, and installation instructions contained in this manual and owner’s manual. Failure to do so could result in death or serious injury.
- Place barricades around the pit on the dock floor and driveway while installing, maintaining, or repairing dock equipment.
- Improper installation of anchoring devices or installation into aged or unsound concrete could result in death or serious injury.



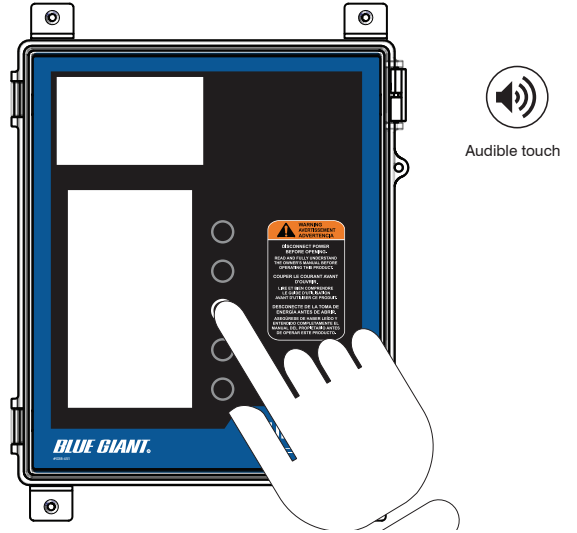
| ITEM | DESCRIPTION            |
|------|------------------------|
| A    | Indicator              |
| B    | Status Screen          |
| C    | Touch sensitive button |

### 5.2 BUTTON FUNCTION

When touching any of the function buttons or keypad, use the ball of the finger.

Pressure not required to operate buttons. The control station’s unique touch sensors detect the proximity of the dock operator’s finger.

Control buttons are momentary contact: a single tap will activate the engage or release features based on situation.



## 6.0 OPERATING INSTRUCTIONS

Follow the safe operating instructions to ensure personnel, load, and equipment safety.

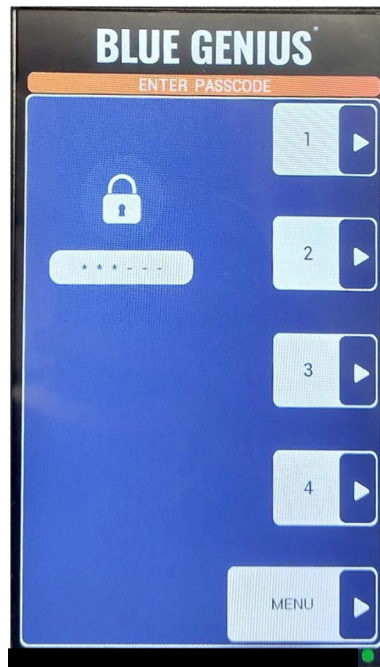
### ⚠ WARNING

- Do not operate the Blue Genius® Connect or Blue Genius® Connect Plus 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 Blue Genius® Control Panel 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.
- 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.

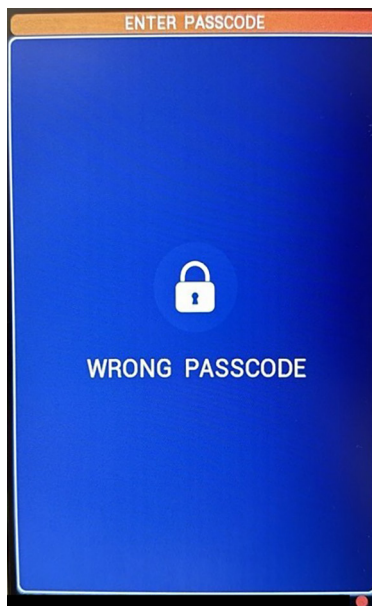
## 6.1 ENGAGE OVERRIDE CODE

Any feature capable of being overridden or bypassed will require a passcode. At the required point in the sequence follow these steps.

1. Tap the **PASSCODE**.



If the is entered incorrectly then this message displays then returns to the **ENTER THE PASSCODE** screen.

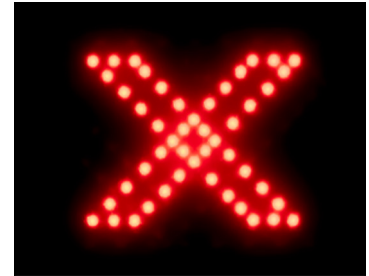
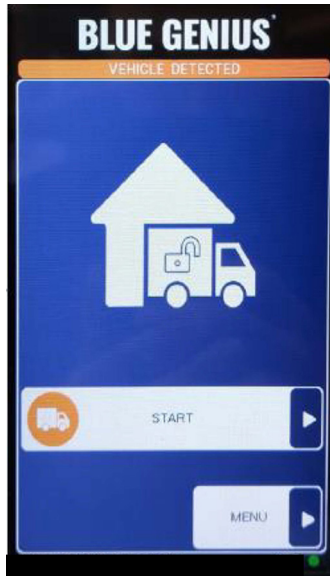


## 6.2 ARRIVAL

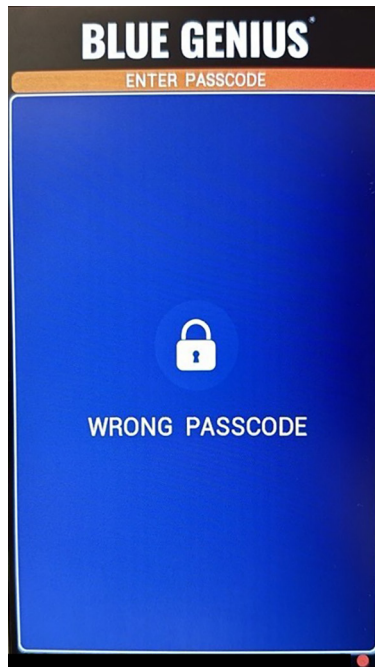
Operating instructions are not always listed this order. Perform steps as necessary. The following steps apply to pit-style dock levelers only.

Before the truck enters the driveway, the exterior traffic light will be **GREEN** and the control panel indicator screen will be **RED**. The truck may now enter the driveway. This sequence also indicates when it is safe for the truck to leave at the end of loading / unloading.

1. Tap **LOG IN TO START**.
2. Tap the required passcode.
3. Tap **START**.

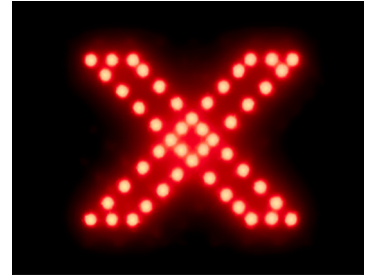
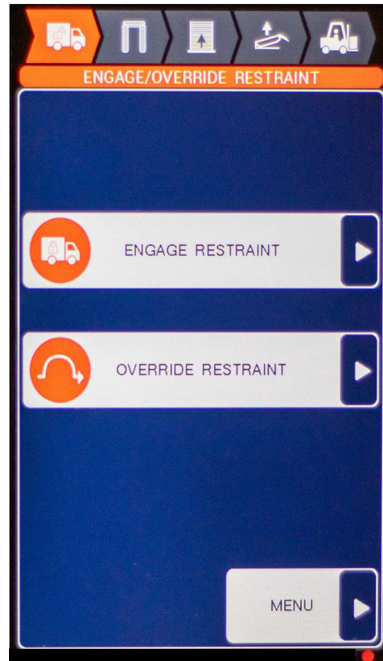


If the is entered incorrectly then this message displays then returns to the **ENTER THE PASSCODE** screen.





## 6.3 ENGAGING THE VEHICLE RESTRAINT



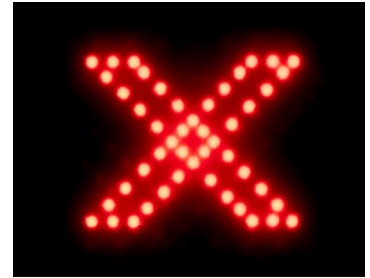
1. Select the required option
  - Tap the **ENGAGE RESTRAINT** to activate vehicle restraint.

Exterior traffic light will change to **RED** and the control panel indicator screen displays **RED**.  
The exterior traffic light will be **GREEN**.



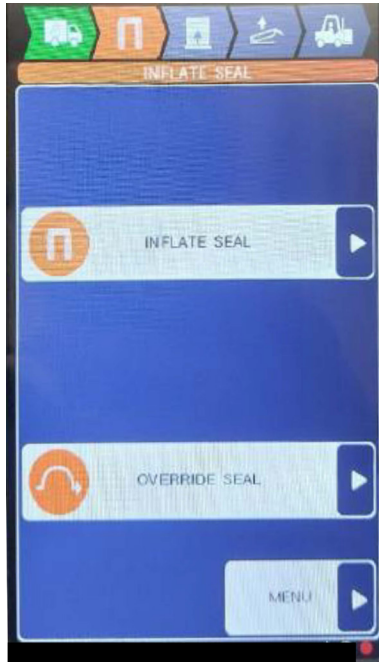
Once the ICC bar is secured, the Blue Genius® Control Panel proceeds to the next available feature.

- Tap the **BYPASS RESTRAINT** button to activate bypass vehicle restraint screens.  
Exterior traffic light displays **RED** and the control panel indicator screen displays **RED**.



## 6.4 DEPLOY SEAL

1. If available, tap **INFLATE SEAL** or **OVERRIDE THE SEAL** to activate feature.



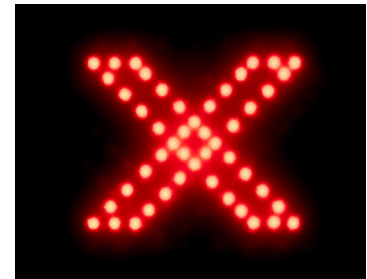
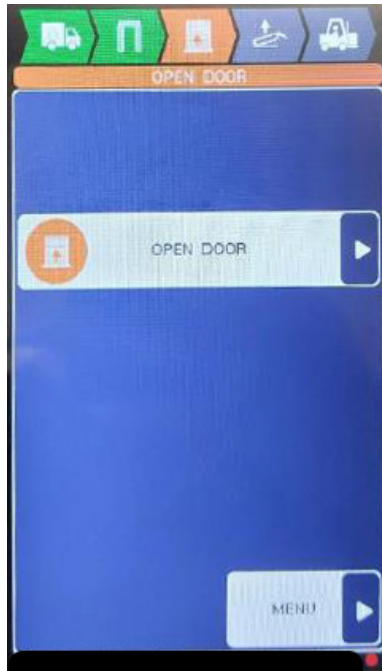
Seal inflates during this screen.



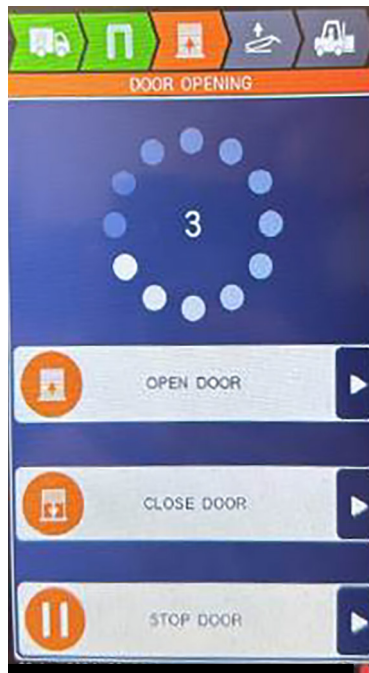
The seal finishes inflating.  
Exterior traffic light displays **RED** and the control panel indicator screen displays **RED**.

## 6.5 OPEN AUTOMATED DOOR

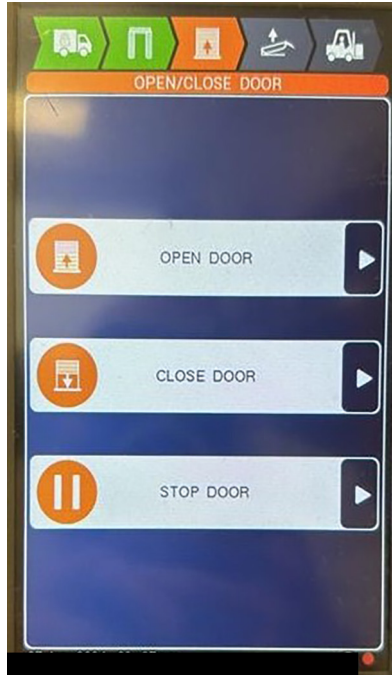
Tap **OPEN** button to raise the overhead door when the door is not in automatic mode.



Door opens during this screen.



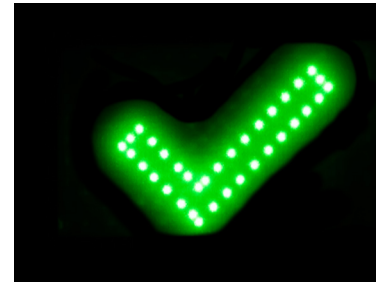
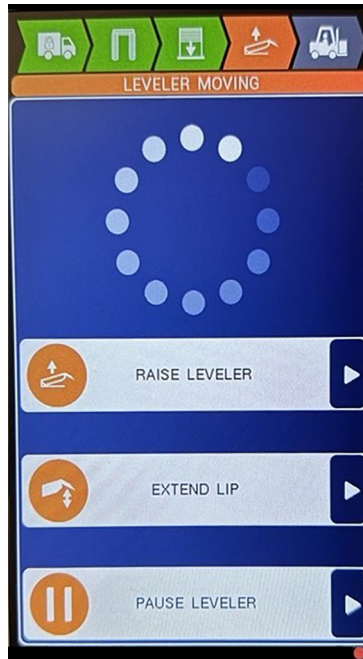
If the door is slightly open, these additional options may be available: **CLOSE DOOR** to lower the door or **STOP DOOR** to pause an automated door.



Door is now open.  
Exterior traffic light displays **RED** and the control panel indicator screen displays **RED**.

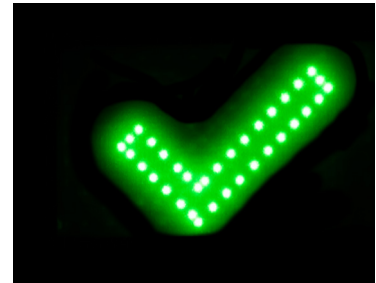
## 6.6 DEPLOYING DOCK

1. Tap and hold **RAISE LEVELER**.
2. When the lip has cleared the lip keepers or trailer, release **RAISE LEVELER** then tap and hold **EXTEND LIP**. The leveler and lip will descend to truck bed, message will change to "Deck Deployed". Exterior traffic light displays **RED** and the control panel indicator screen displays **GREEN**.



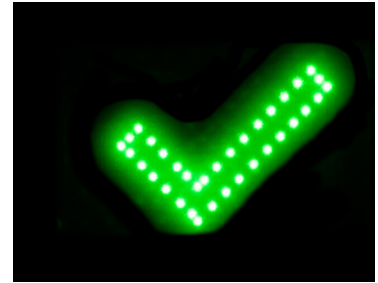
## 6.7 LOAD TRANSFER

Once the restraint and leveler are deployed correctly, perform loading and unloading.



## 6.8 DEPARTING

Once load transfer is complete, tap **COMPLETE** to begin the releasing process.

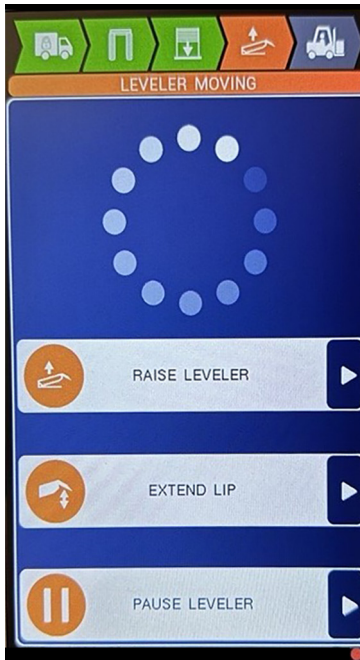


## 6.9 RAISE THE DOCK LEVELER

1. Tap and hold **RAISE LEVELER**.

Exterior traffic light displays **RED** and the control panel indicator screen displays **RED**.

- If required, tap **PAUSE LEVELER** to interrupt the deck rising.
- If required, tap **EXTEND LIP** to raise the lip.

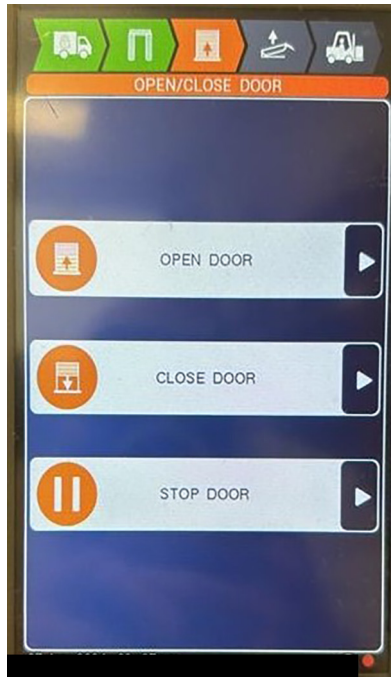


2. Release **RAISE LEVELER**.

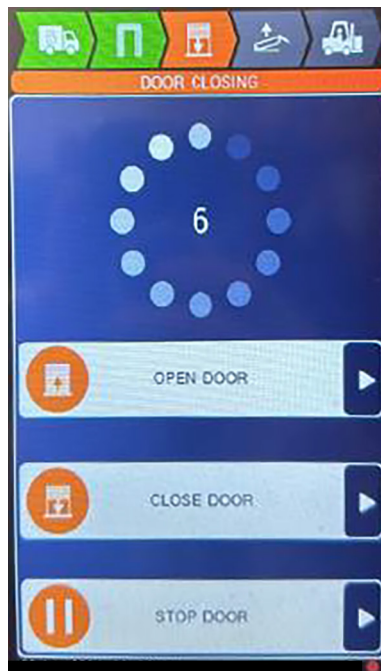
The lip drops and the leveler will lower to the lip support.

## 6.10 CLOSE AUTOMATED DOOR

1. Tap **CLOSE** to lower the overhead door when the door is not in automatic mode.



If the door is slightly open, these additional options may be available: **OPEN DOOR** to raise door or **STOP DOOR** to pause an automated door.  
Door closes during this screen.

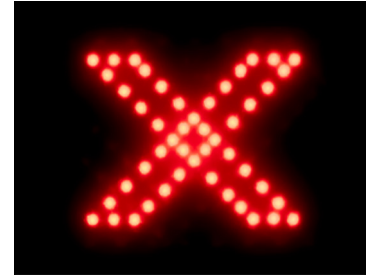
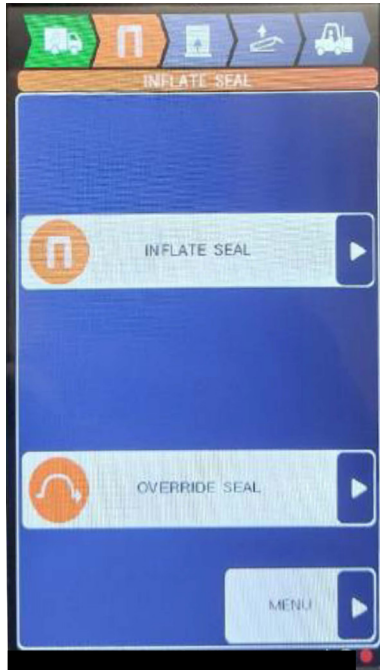


The door is now closed  
Exterior traffic light displays **RED** and the control panel indicator screen displays **RED**.



## 6.11 REMOVE SEAL

1. If available, tap **DEFLATE SEAL** or **OVERRIDE THE SEAL** to activate feature.



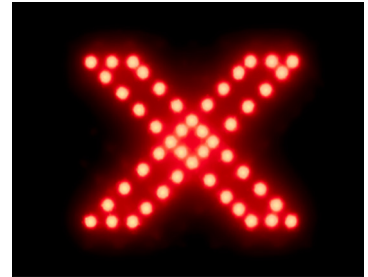
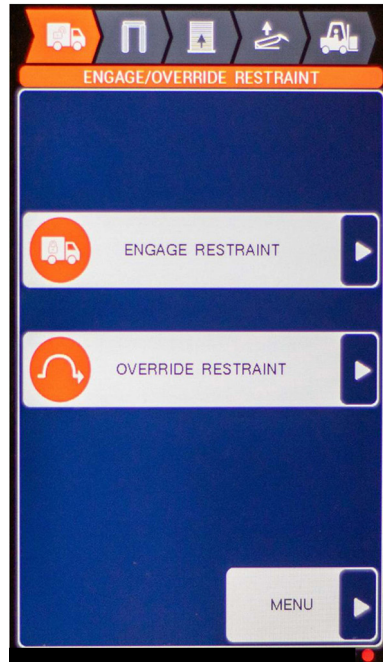
Seal deflates during this screen.



Exterior traffic light displays **RED** and the control panel indicator screen displays **RED**.

## 6.12 RELEASING THE VEHICLE RESTRAINT

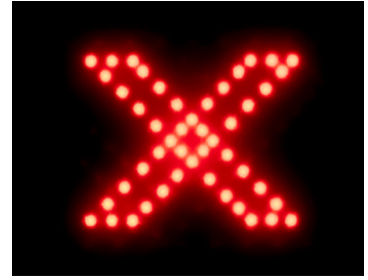
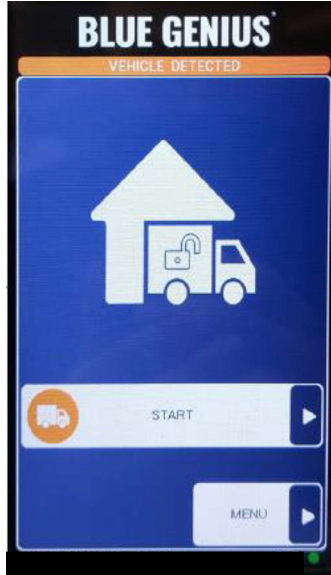
1. Tap the **DISENGAGE RESTRAINT** to disengage the vehicle restraint or release the bypass on the vehicle restraint.



The restraint returns to home during this screen.



2. When the restraint is fully released, the exterior traffic light will change to **GREEN** and the control panel indicator screen displays **RED**.



## 7.0 MAINTENANCE

Develop a planned or scheduled maintenance plan to keep the Blue Genius® Connect in good operating order.

### WARNING

- Do not attempt to install, make repairs, or adjustments. Only a trained and authorized service technician should perform the installation process, make repairs, or make adjustments. Contact your Blue Giant Dealer for assistance.
- Do not service this equipment until you have read and understood all of the safety information and instructions contained herein. Failure to adhere to recommended safety practices in this manual and on the Blue Genius® Control Panel warning labels could result in death or serious injury.
- Do not conduct maintenance or repairs until adequate barriers have been placed to keep warehouse and vehicle traffic away from the work area.
- Before doing any electrical work, verify that the power is disconnected and properly tagged or locked out.

## 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 Blue Genius® Control Panel. 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, and minor adjustments are outlined in the Owner's Manual for this product. Contact your Blue Giant Dealer regarding for assistance with a planned maintenance program by offering trained service personnel with expertise in Control Panel maintenance requirements.

## 7.2 OPERATOR DAILY INSPECTION

The Blue Genius® Control Panel shall always be examined by the operator **PRIOR TO ANY USE** to verify that it is safe to operate.

The manufacturer recommends scanning to storage or making multiple photocopies of the DMP Checklist. The operator should fill out this form to keep a daily record of operation and maintenance issues. See "7.6 DAILY MAINTENANCE PROCEDURES (DMP) CHECKLIST" on page 29.

## 7.3 ROUTINE SERVICING AND MAINTENANCE

Regular maintenance and care of the Blue Genius® Control Panel is very important for operator safety, operation efficiency, and cost. A faulty Blue Genius® Control Panel is a potential source of danger to the operator, and to other personnel working near it. As with all quality equipment, keep the Blue Genius® Control Panel in good operating condition by following the recommended schedule of maintenance. Failure to properly maintain or operate the Blue Genius® Control Panel can void the manufacturer warranty.

## 7.4 PLANNED MAINTENANCE PROGRAM INTERVALS

Arrange for a qualified Blue Genius® Control Panel repair technician to perform regularly scheduled planned maintenance on your Blue Genius® Control Panel every three months for single shift operations or monthly for multi-shift operations. Please contact your Blue Giant Dealer for further details.

## 7.5 MAINTENANCE SEQUENCE

Follow this procedure for maintenance of the Blue Genius® Control Panel.

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

## 7.6 DAILY MAINTENANCE PROCEDURES (DMP) CHECKLIST

Use checklist to aid the daily maintenance inspection. Photocopy or scan to storage then print from stored copy as needed.

 **DANGER**

- When repairing or conducting maintenance procedures on electrical components, perform lockout / tagout steps according to OSHA regulations and approved electrical codes.
- Prior to inspection, place adequate barriers to reduce unauthorized personnel and vehicle traffic from entering the work area.

 **CAUTION**

- All repairs and maintenance work are to be conducted by trained and authorized personnel ONLY.

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

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

Forward this checklist to the person responsible for Blue Genius® Control Panel maintenance. See “Owner’s Purchase Record” for Date in Service.

**INSTRUCTIONS:** Indicate “OK for USE” with a check mark ✓ in the appropriate box of each inspection point. Indicate “NOT OK for USE” with an x 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 Control Panel .
- Verify complication-free operation of the Blue Genius® Control Panel, and the interior / exterior lights system (if installed).
- Verify that outside and inside signage is present and legible (if equipped).
- Remove any potential trip hazards from around the dock area.
- Verify that dock bumpers/risers/extensions are in working condition (if equipped).
- Check curb angles for irregularities (e.g. concrete cracks).
- Verify that the overhead door is functioning correctly (if equipped).
- Verify that instructional caution and danger labels are present and legible on the product. Replace if necessary.
- Verify complication free operation of the equipment through a complete cycle (refer to Operation Placard).
- \_\_\_\_\_
- \_\_\_\_\_

**SCAN TO STORAGE OR PHOTOCOPY THIS CHECKLIST AND FILL OUT REGULARLY FOR YOUR RECORDS.**

Explain faults briefly in the space provided below:

\_\_\_\_\_

\_\_\_\_\_

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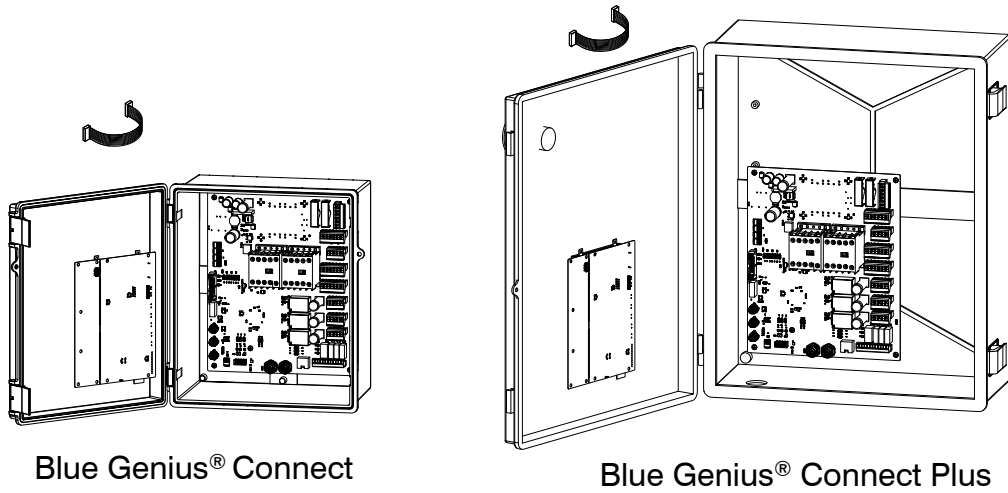
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## 8.0 RECOMMENDED SPARE PARTS



| STANDARD OPERATIONAL COMPONENTS Blue Genius® Connect |          |                       |           |
|--|----------|-----------------------|-----------|
| ITEM   | PART #   | DESCRIPTION           | QTY REQ'D |
| 1  | BGC-1115 | 1PH,115V, CONTROL BOX | 1         |
| 2  | BGC-1230 | 1PH,230V, CONTROL BOX | 1         |
| 3  | BGC-3230 | 3PH,230V, CONTROL BOX |           |
| 4  | BGC-3460 | 3PH,460V, CONTROL BOX |           |
| 5  | BGC-3575 | 3PH,575V, CONTROL BOX |           |
| 6  |          | F1 FUSE               | 1         |
| 7  |          | F2 FUSE               | 1         |
| 8  |          | F6 FUSE               | 1         |
| 9  |          | F7 FUSE               | 1         |
| 10   |          | F8 FUSE               | 1         |
| 11   |          | Audible alarm         | 1         |
| 12   |          | Ribbon Cable          | 1         |

| STANDARD OPERATIONAL COMPONENTS Blue Genius® Connect Plus |        |               |           |
|---|--------|---------------|-----------|
| ITEM  | PART # | DESCRIPTION   | QTY REQ'D |
| 7   |        | F1 FUSE       | 1         |
| 8   |        | F2 FUSE       | 1         |
| 9   |        | F6 FUSE       | 1         |
| 10  |        | F7 FUSE       | 1         |
| 11  |        | F8 FUSE       | 1         |
| 12  |        | Audible alarm | 1         |
| 13  |        | Ribbon Cable  | 1         |

| <b>STANDARD OPERATIONAL COMPONENTS Blue Genius® Connect Plus</b> |               |                       |                  |
|--|---------------|-----------------------|------------------|
| <b>ITEM</b>  | <b>PART #</b> | <b>DESCRIPTION</b>    | <b>QTY REQ'D</b> |
| 14   | BGCP-1115     | 1PH,115V, CONTROL BOX | 1                |
| 15   | BGCP-1230     | 1PH,230V, CONTROL BOX |                  |
| 16   | BGCP-3230     | 3PH,230V, CONTROL BOX |                  |
| 17   | BGCP-3460     | 3PH,460V, CONTROL BOX |                  |
| 18   | BGCP-3575     | 3PH,575V, CONTROL BOX |                  |

## 9.0 DECAL IDENTIFICATION AND LOCATION

These labels inform operators and personnel about hazardous areas on and around the Blue Genius® Control Panel.

**DO NOT DRILL TOP OF ENCLOSURE CONDUIT ENTRANCE AT THE BOTTOM.**

**NO PERFORA LA PARTE SUPERIOR DE LA CAJA. EL CONDUITO DE ENTRADA SE ENCUENTRA EN LA PARTE INFERIOR.**

**NE PAS PERCER LE DESSUS DU BOÎTIER. L'ENTRÉE DU CONDUIT EST AU DESSOUS.**

**WARNING**

- Do not operate the dock lifter until you have read the instructions.
- Read, understand, and follow these instructions and the warnings / instructions in the Owner's Manual.
- Prior to using this dock equipment:
  - Inspect all parts and required repairs have been made.
  - Verify that the dock has been properly checked and / or repaired as it applies.
- Operate the equipment through one full cycle to verify that all components are functioning properly. If damage to components or the equipment is observed, verify instructions personnel immediately stop use and required repairs have been made.
- Verify that the dock has been properly checked and / or repaired prior to loading or unloading.
- Verify that the dock lifter is properly checked and / or repaired as it applies.
- Keep hands and feet clear of all pinch points.
- Do not exceed the rated capacity as indicated on the dock lifter's name plate.
- Do not use the dock lifter if the trailer bed extends the lifter's rated capacity.
- If an interior and exterior light communication package has been installed, read and understand fully when the trailer light is GREEN.
- Do not leave equipment or cargo unattended on the dock lifter.
- Consultation or repairs are required.
- Do not use the dock lifter if the trailer bed extends the lifter's rated capacity.
- Follow equipment labels / signal priorities.

APPLIES TO ALL STANDARD DOCK LEVELERS, VEHICLE RESTRAINTS, AND DOCK EQUIPMENT COMING.

Failure to follow the instructions above could result in death and / or serious injury.

**AVERTISSEMENT**

- Ne pas utiliser cet équipement avant la formation et l'habilitation adéquates.
- Lire complètement et suivre ces instructions et les avertissements / instructions dans le Guide d'utilisateur.
- Avant d'utiliser cet équipement:
  - Inspecter toutes les pièces et réparations nécessaires.
  - Vérifier que le dock a été correctement vérifié et / ou réparé.
- Opérer l'équipement à travers un cycle complet pour vérifier que tous les composants fonctionnent correctement. Si un dommage aux composants ou à l'équipement est observé, vérifier les instructions du personnel immédiatement arrêter l'utilisation et les réparations nécessaires ont été effectuées.
- Vérifier que le dock a été correctement vérifié et / ou réparé avant le chargement ou le déchargement.
- Vérifier que le dock lifter est correctement vérifié et / ou réparé.
- Garder les mains et les pieds loin de tous les points de pincement.
- Ne pas dépasser la capacité nominale indiquée sur la plaque nominale du dock lifter.
- Ne pas utiliser le dock lifter si le plateau de la remorque dépasse la capacité nominale du dock lifter.
- Si un système de communication lumière intérieure et extérieure est installé, lire et comprendre complètement les instructions lorsque le feu est vert.
- Ne pas laisser l'équipement ou la charge sans surveillance sur le dock.
- Consultation ou réparations sont requises.
- Ne pas utiliser le dock lifter si le plateau de la remorque dépasse la capacité nominale du dock lifter.
- Suivre les étiquettes de l'équipement et les priorités de signal.

APPLIQUE À TOUS LES NIVELEURS DE QUAI STANDARDS, SYSTÈMES DE RESTRAINTS ET ÉQUIPEMENTS VENANT.

Échec à suivre les instructions ci-dessus peut entraîner la mort et / ou blessures graves.

ATTACHED TO DIVIDER PLATE IN CONNECT PLUS SERIES

BLUE GIANT EQUIPMENT CORPORATION E535795

Model No.

No De Modelo

Serial No.

No. De Serie

Power / Tension

Volts  PH

Voltage  HP

HZ  A  CV

MFG / FAB.  (MM/YYYY)

(MM/AAAA)

Enclosure NEMA

Suitable for use on a circuit capable of delivering not more than: Utilisable sur un circuit capable de délivrer au plus: \_\_\_\_\_ V Max.

RMS symmetrical amperes: \_\_\_\_\_ V Max.

RMS courant symétrique: \_\_\_\_\_

"Refer to safety and operating instructions in your owner's manual." "Voir les consignes de sécurité et le mode d'emploi dans votre guide d'utilisation."

Made in Canada Fabrique au Canada 038-285EF

**CONNECT**

**CONNECT PLUS**

| ITEM | QTY | PART NO. | * DESCRIPTION   |
|------|-----|----------|---|
| A    | 1   | 038-283E | F<br>S Decal - Do Not Drill   |
| B    | 1   | 038-853E | F<br>S Decal - Warning  |
| C    | 1   | 038-285E | F<br>S Decal - Serial Plate (Not sold separately)(Located inside control box enclosure) |
| D    | 1   | 038-296E | F<br>S Decal - Warning Interior Control Box   |

## 9.1 OPERATION PLACARDS

The Operating Instruction Placard (Part. No. 038-E) is to be wall mounted near the dock lift controls.

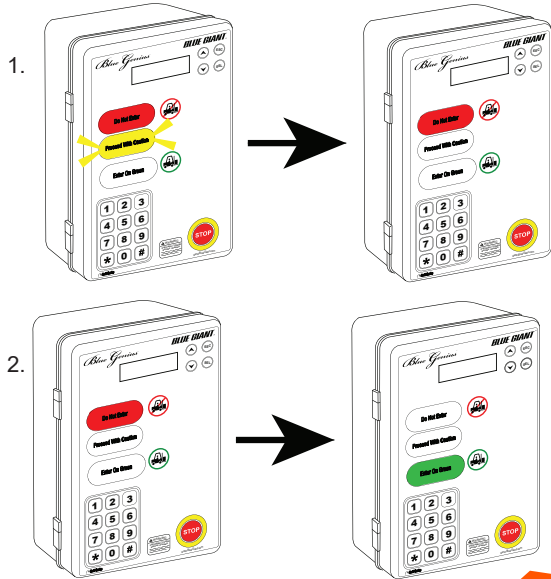
Duplicate of 038-E provided on the following page. (Not to scale).



# OPERATING INSTRUCTIONS

## Only for the Blue Giant Interlock Chock™

**A**



### PLACE WHEEL CHOCK

Standard and end loading follow the same procedure. Once the vehicle driver has placed the Interlock Chock, the Blue Genius Control Panel flashes AMBER.

1. Fully open the dock door.  
While the door is opening, Blue Genius Control Panel will illuminate solid RED.  
When the door is fully open, the Blue Genius Control Panel remains solid RED.

GOLD OR PLATINUM BG MENU DISPLAY SCREEN

READY TO RAISE DECK

2. Deploy dock.  
While dock deploying, Blue Genius Control Panel illuminates solid RED.  
When dock fully deployed, Blue Genius Control Panel illuminates solid Green.

GOLD BG MENU DISPLAY SCREEN

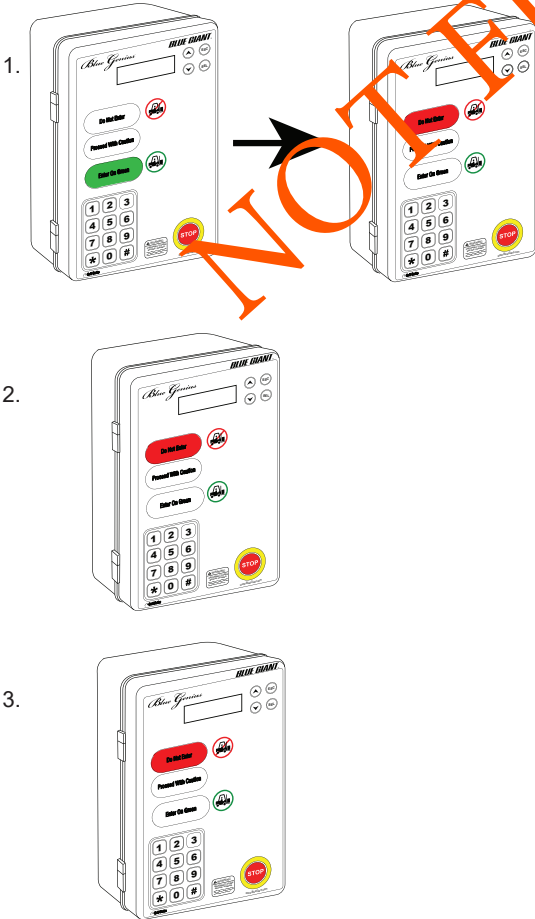
DECK DEPLOYED

PLATINUM BG MENU DISPLAY SCREEN

LEVELER READY

3. Proceed with loading or unloading.

**B**



### REMOVE WHEEL CHOCK

1. When loading or unloading is completed, restore dock to fully parked position.  
When the dock leaves the deployed position and is parked, Blue Genius Control Panel illuminates solid RED.

GOLD BG MENU DISPLAY SCREEN

WHEEL CHOCK IS ENGAGED

PLATINUM BG MENU DISPLAY SCREEN

CHOCK ENGAGED LEVELER RESTORED

2. Close door completely.  
Blue Genius Control Panel illuminates solid RED.

GOLD BG MENU DISPLAY SCREEN

READY TO RELEASE

PLATINUM BG MENU DISPLAY SCREEN

READY TO RELEASE WHEEL CHOCK

3. As driver restores chock, Blue Genius Control Panel illuminates solid RED.

GOLD BG MENU DISPLAY SCREEN

RESTORE WHEEL CHOCK

PLATINUM BG MENU DISPLAY SCREEN

READY TO RELEASE WHEEL CHOCK

4. Chock is back in cradle.  
Blue Genius Control Panel remains solid RED.

GOLD OR PLATINUM BG MENU DISPLAY SCREEN

BLUE GENI US READY

## 10.0 EQUIPMENT COMPONENT ILLUSTRATIONS

This section displays the various hardware components.

### 10.1 COMPONENTS AS SHIPPED CHECKLIST

This section displays the shipped hardware components.

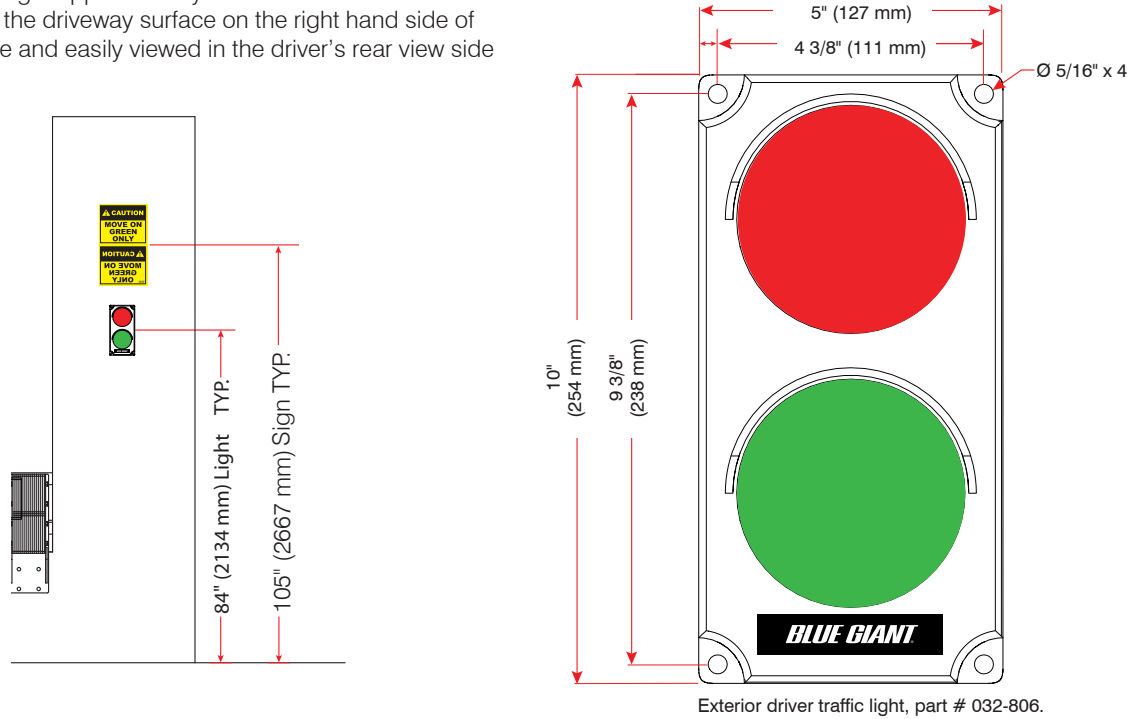


| √ | ITEM | QTY | PART NO.   | DESCRIPTION   | APPROX. WEIGHT |            |
|---|------|-----|--|---|----------------|------------|
|   | 1    | 1   | Dependent on voltage.<br>See "13.0 WIRING DIAGRAMS"<br>on page 38. | Blue Genius® Connect Plus Control Panel<br>Blue Genius® Connect Control Panel | 25 - 35 lb     | 11 - 16 kg |
|   | 2    | 1   |  | Mounting Tabs with Hardware (1 pkg. of 4)                                     | —              | —          |
|   | 3    | 1   | 038-225  | E<br>F<br>S<br>Exterior Driver Warning Sign                                   | 0.7 lb         | 0.32 kg    |
|   | 4    | 1   | 032-806  | LED Exterior Driver Traffic Light   | 1.3 lb         | 0.6 kg     |
|   | 5    | 1   | 038-1169E, 038-1169EI,<br>and 038-1169EPL                          | E<br>F<br>S<br>Owner's Manual, Installation Manual, and Parts List            | —              | —          |
|   | 6    | 1   | Dependent on model #   | E<br>F<br>S<br>Operation Placard(s)   | —              | —          |

## 11.0 EXTERIOR DRIVER TRAFFIC LIGHT INSTALLATION

This procedure describes the wall mounting of the exterior traffic light

1. Mount the exterior traffic light approximately 84in. - 96in. (2134 - 2438mm) above the driveway surface on the right hand side of The loading bay entrance and easily viewed in the driver's rear view side mirror.



Exterior driver traffic light, part # 032-806.

2. Ensure that the traffic light is both square and level.
3. Add shims to the back if needed. Do not over-tighten the fasteners.
4. Drill the hole for the cable.  
Ensure that the hole is thoroughly deburred (cleaned out) so that accidental damage does not occur when the cable is pulled through during and after installation.

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

## 11.1 EXTERIOR DRIVER WARNING SIGN INSTALLATION

This procedure describes the mounting of the exterior warning sign for drivers.

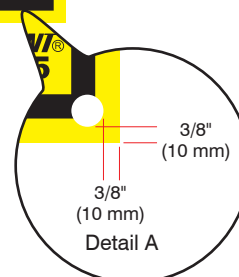
**NOTE:** When fastening the sign to the wall, do not warp or twist the sign while tightening the anchors. (Use shim washer if needed.)

Do not over-tighten fastenings, as damage to the sign may occur.

1. Position the driver warning sign near or below the exterior traffic light and verify that the sign is easily viewed by drivers. As the sign comes without mounting holes, drill a minimum of four holes, no less than 3/8in. (10mm) (see detail), from the sign's edge. Ensure that the mounting holes exceed the width of the anchor device shaft for expansion reasons (i.e. for a 1/4in. anchor use a 5/16in. hole).
2. Verify that the sign is level, and centered beneath/near the traffic light.



Exterior driver warning sign, part # 038-225  
(French 038-225F / Spanish 038-225S / Portuguese 038-225P)



## 12.0 TROUBLESHOOTING

Use this section to help diagnose issues if the Blue Genius® Control Panel is not operating as specified.

### DANGER

- Failure to properly secure the any deck or table (if installed) prior to working underneath it may result in bodily injury, or death.

### WARNING

- Do not attempt to install, make repairs, or adjustments. Only a trained and authorized service technician should perform the installation process, make repairs, or make adjustments. Contact your Blue Giant Dealer for assistance.
- Do not service this equipment until you have read and understood all of the safety information and instructions contained herein. Failure to adhere to recommended safety practices in this manual and on the equipment warning labels could result in death or serious injury.
- Do not conduct maintenance or repairs until adequate barriers have been placed to keep warehouse and vehicle traffic away from the work area.
- Before doing any electrical work, verify that the power is disconnected and properly tagged or locked out, in accordance with OSHA regulations and approved electrical codes.

The following description of operating principles is intended as a guide when trouble shooting and making adjustments or repairs. If no fault can be found and equipment fails to operate properly, contact your Blue Giant Dealer.

| MESSAGE   | EXPLANATION  |
|---|--|
| 'Fault 31'<br>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 lowered position.<br>NOTE: the set screw does not tighten down on the flat of the IPS shaft.<br>IPS not programmed. See set-up procedure. |
| During self test mode the following message appear:<br>'Remote I/O Bad'<br>'Positioner Bad'                             | Faulty wiring, communication cable not connected or damaged.<br>Circuit board is faulty.   |
| 'Please restore Dock Leveler'   | Restraint interlock sensor (home/lip) is in-active, out of range.<br>Restraint interlock sensor (home/lip) is not connected.<br>Faulty wiring.<br>Dock not in stored/home position.  |
| 'ICC Bar not in Range'  | Restraint arm went up and did not find ICC bar in preset range.<br>IPS not programmed.   |
| 'Fault 10'<br>Communication error   | Faulty wiring, check for loose or broken communication cable wire(s).<br>Noise interference, check routing of communication from Blue Genius® controls to remote devices.  |
| 'Restraint Arm Blocked'<br>Followed by:<br>'Restore Restraint, press 'SEL' to continue, Blue Genius® Warning' (repeats) | Restraint arm failed to lower all the way down. Check for debris.<br>Faulty IPS board or switches.<br>Faulty wiring.   |
| 'Restraint is Engaged' Followed by:<br>'Dock Leveler Restored', 'Ready to Deploy Deck'. (repeats)                       | The 'Engage' 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.<br>Remote I/O is faulty, replace.<br>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.<br>IPS board is faulty, replace.<br>Blue Genius™ power board is faulty, replace.   |

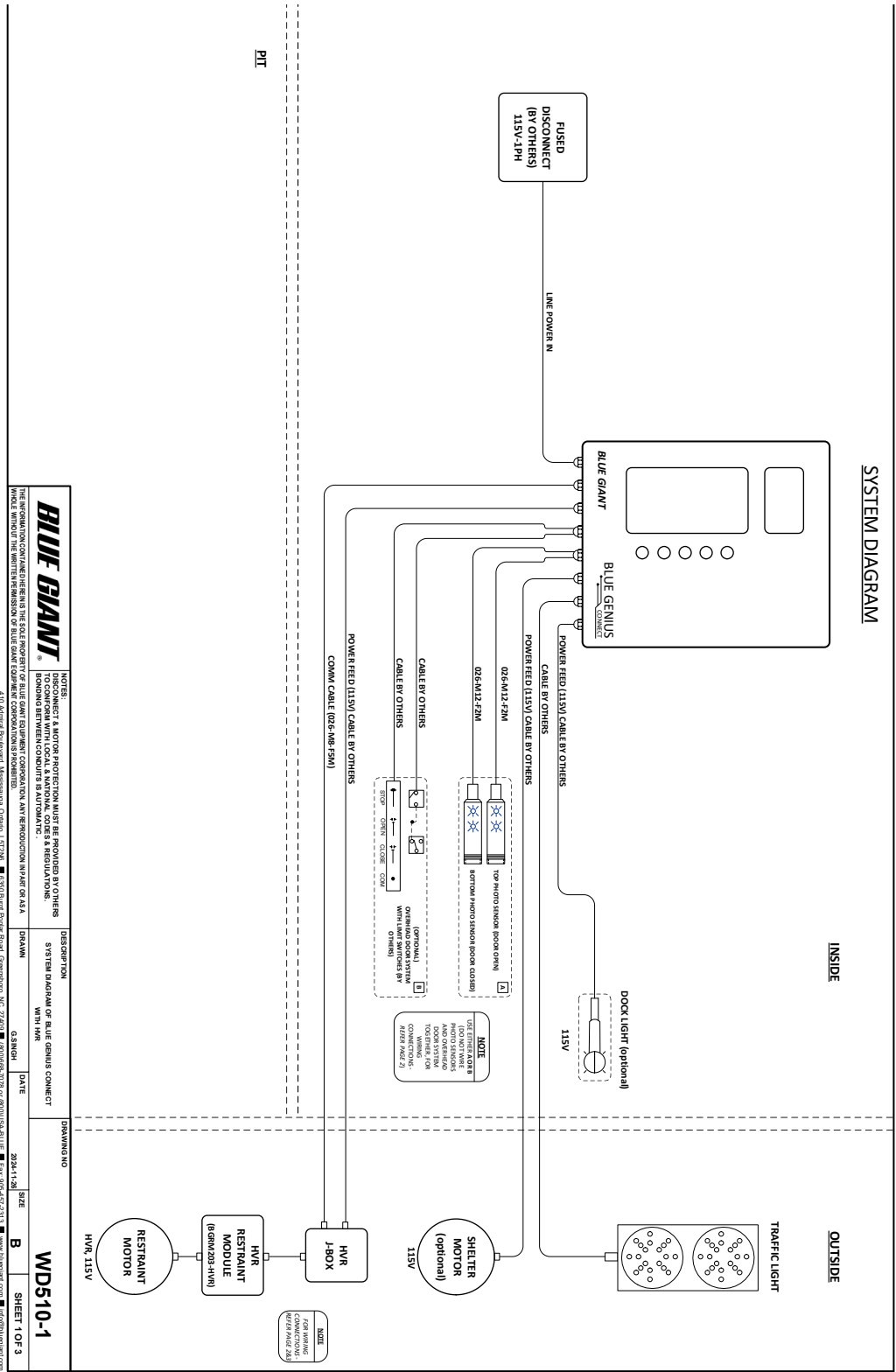
# 13.0 WIRING DIAGRAMS

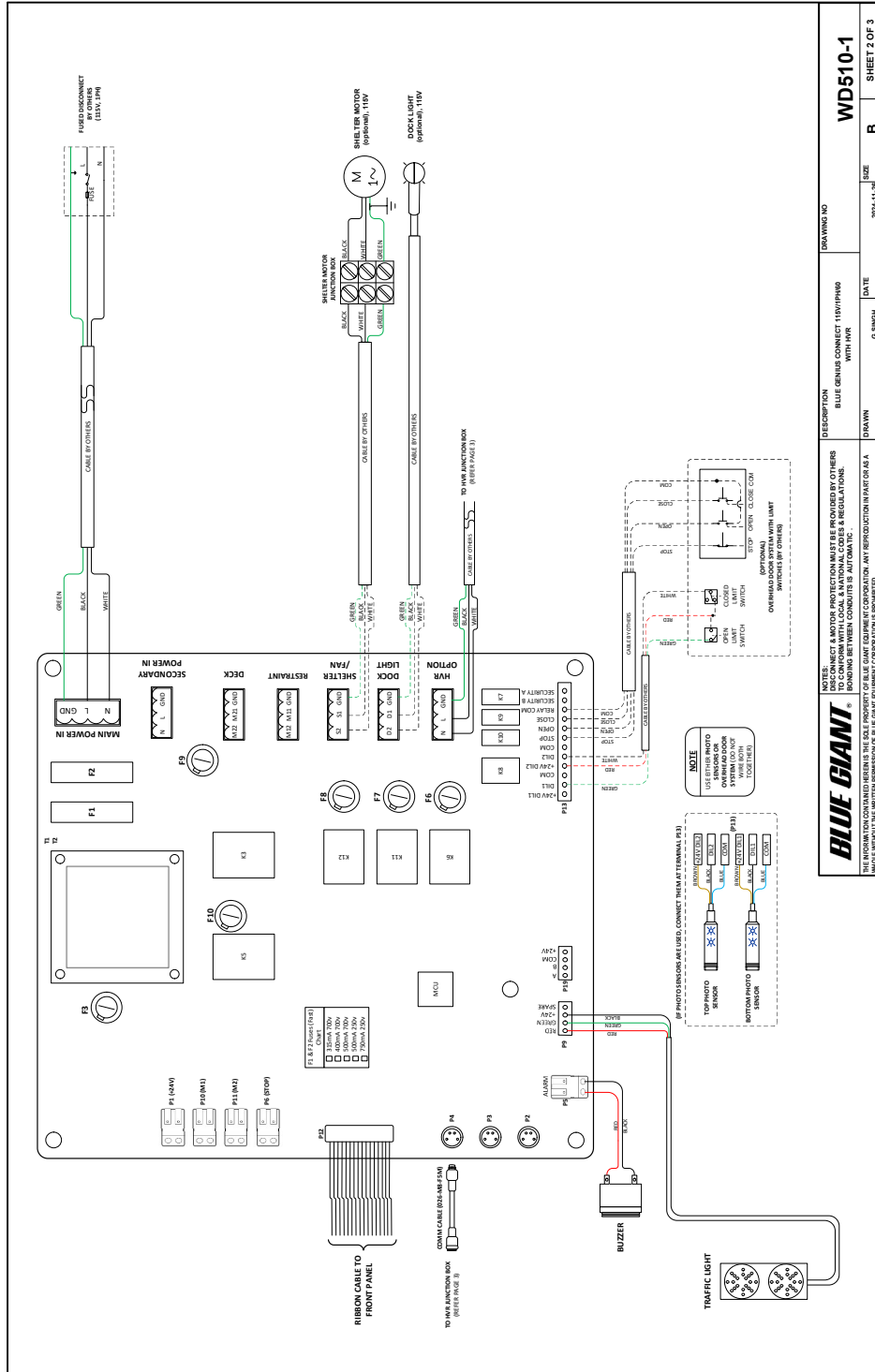
## NOTICE

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.

This section describes how the modules are installed, wired, and electrically powered.

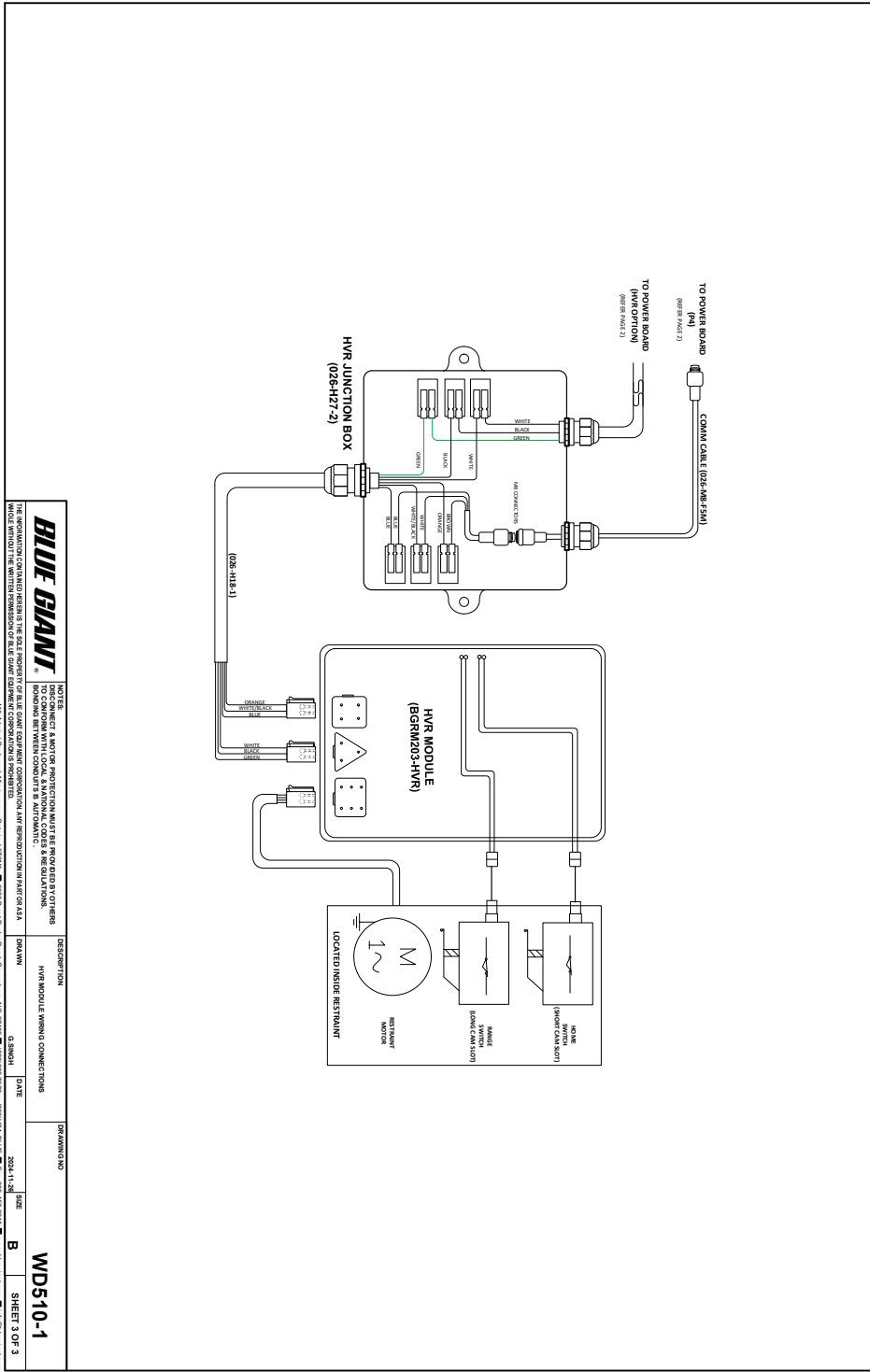
## 13.1 BLUE GENIUS® CONNECT WITH HVR





|  |  |                       |           |
|--|--|-----------------------|-----------|
|  | DESCRIPTION<br>BLUE GENIUS CONNECT 11W/11M/11HS WITH HW  | DRAWING NO<br>WD510-1 |           |
|  | DRAWN<br>G. SINGH  | DATE<br>2024.11.26    | SIZE<br>B |
|  | THE INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF BLUE GIANT EQUIPMENT CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BLUE GIANT EQUIPMENT CORPORATION IS STRICTLY PROHIBITED. |                       |           |

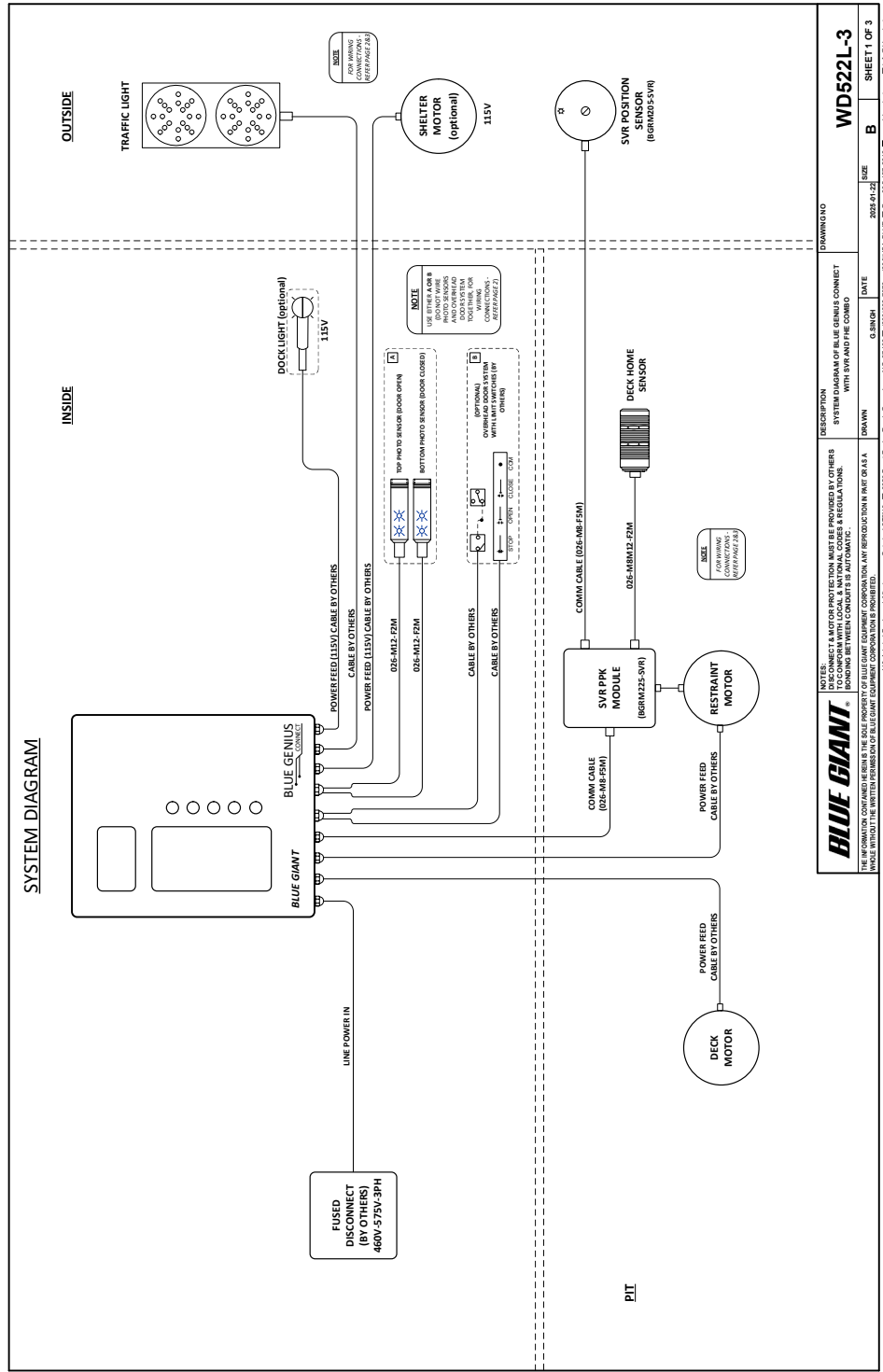
110 Acorn Rd. East Windsor, NJ 08520  
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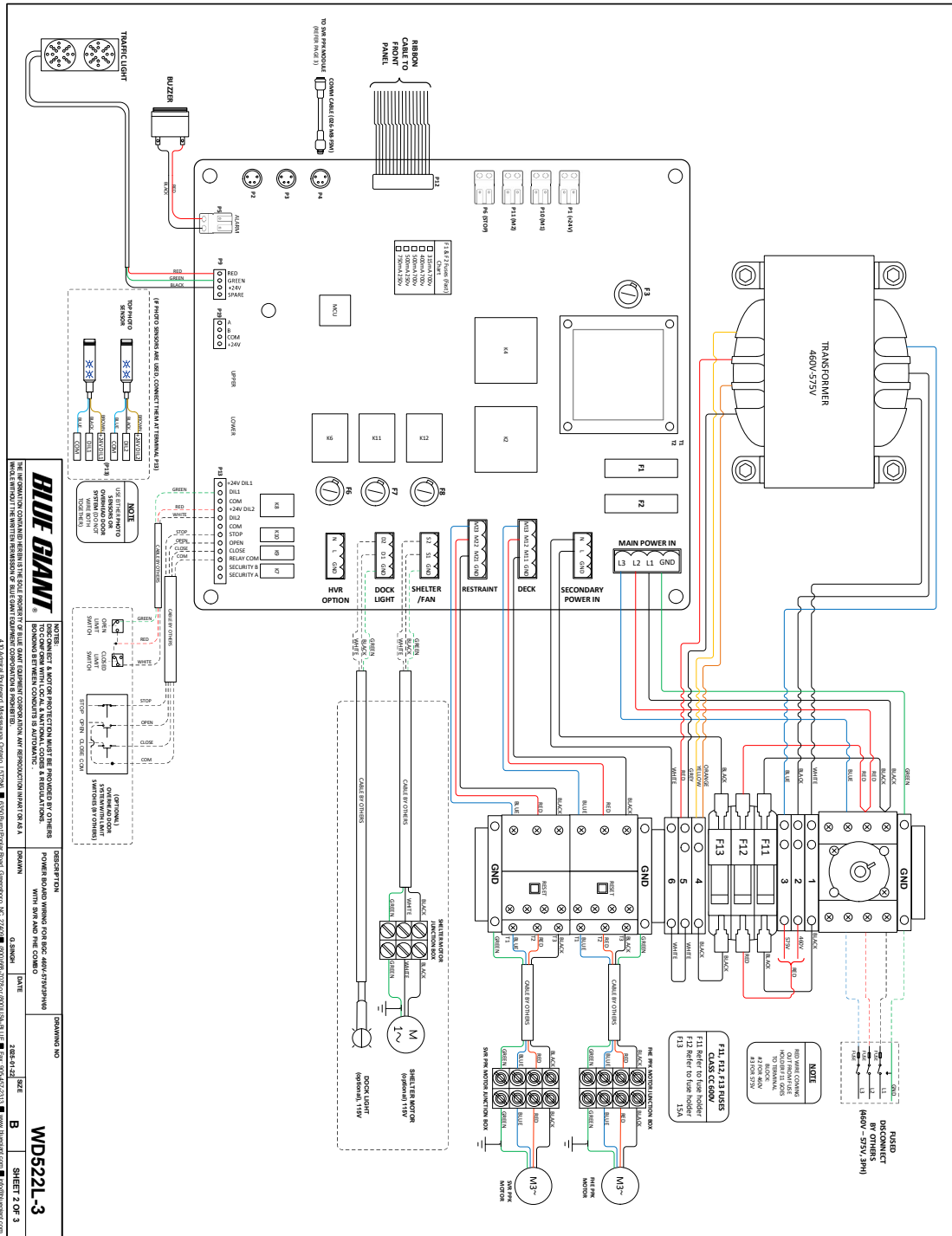


|   |  |   |                                     |                               |                                   |
|---|--|---|-------------------------------------|-------------------------------|-----------------------------------|
| <p><b>BLUE GENIUS</b></p> <p>THE INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF BLUE GENIUS. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF BLUE GENIUS IS PROHIBITED.</p> <p>410 Central Boulevard, Mississippi, Ontario, L7T 2N6 ■ 5501 Barford Pkwy Road, Greensboro, NC 27409 ■ 800-958-0798 or 800-USA-BLUE ■ Fax: 006-457-2313 ■ www.bluegenius.com ■ info@bluegenius.com</p> |  | <p>DESCRIPTION</p> <p>HVR MODULE WIRING CONNECTIONS</p> | <p>DRAWING NO.</p> <p>G. BISHOP</p> | <p>DATE</p> <p>2024-11-28</p> | <p>DRAWING NO.</p> <p>WDS10-1</p> |
| <p>NOTES</p> <p>DISCONNECT &amp; LOCK-OUT PROTECTION MUST BE PROVIDED BY OTHERS TO COMPLY WITH LOCAL ELECTRICAL CODES &amp; REGULATIONS. TO COMPLY WITH LOCAL ELECTRICAL CODES &amp; REGULATIONS, THE WHOLE UNIT MUST BE INSTALLED IN A LOCKED POSITION.</p>  |  | <p>REVISIONS</p>  | <p>SIZE</p> <p>B</p>                | <p>SHEET</p> <p>3 OF 3</p>    |                                   |



# 13.2 BLUE GENIUS® CONNECT WITH SVR AND FHE COMBO

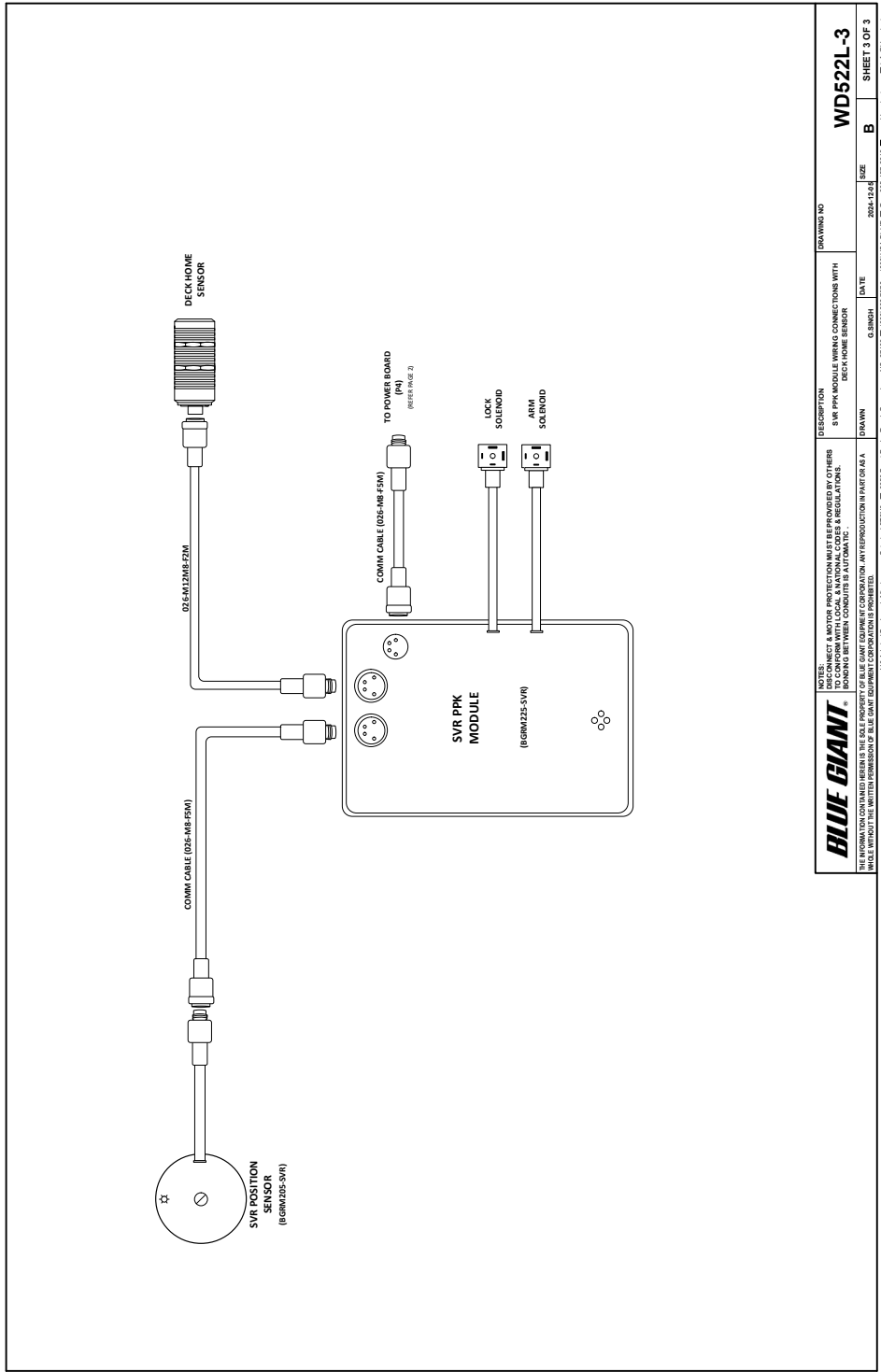




**BLUE GENIUS**

**WDS22L-3**

|             |                                  |              |            |
|-------------|----------------------------------|--------------|------------|
| DESCRIPTION | POWER BOARD WIRING FOR 480V/575V | DRAWING NO.  | WDS22L-3   |
| REVISION    | REV. 001                         | DATE         | 2023-12-12 |
| DESIGNED BY | DAVID W. GRIFFIN                 | SIZE         | B          |
| CHECKED BY  | DAVID W. GRIFFIN                 | SHEET 2 OF 3 |            |



|  |   |                                   |
|--|---|-----------------------------------|
| <p><b>BLUE GIANT</b></p> <p>NOTES:<br/>                 DISCONNECT A MOTOR PROTECTION MUST BE PROVIDED BY OTHERS<br/>                 FOR ALL ELECTRICAL WIRING CONNECTIONS WITH<br/>                 BOUNDARY BETWEEN CONSULTANTS &amp; REGULATORS.<br/>                 THE INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF BLUE GIANT CORPORATION. ANY REPRODUCTION IN PART OR AS A<br/>                 WHOLE WITHOUT THE WRITTEN PERMISSION OF BLUE GIANT CORPORATION IS PROHIBITED.</p> | <p>DESCRIPTION</p> <p>3 IN. PPK ARMABLE WIRING CONNECTIONS WITH<br/>                 DECK HOME SENSOR</p> | <p>DRAWING NO</p> <p>WDS52L-3</p> |
|  | <p>DRAWN</p> <p>G. BISHOP</p>   | <p>DATE</p> <p>2024-12-03</p>     |
| <p>410 Admiral Boulevard, Wilmington, Delaware, 19726 ■ 8550 Burnet Pkwy Road, Greenville, NC, 27609 ■ 800.668.7078 or 800.654.8444 ■ Fax: 336-657-2513 ■ www.bluegiant.com ■ info@bluegiant.com</p>   |   | <p>SHEET 3 OF 3</p>               |

**BLUE GIANT**<sup>®</sup>  
BLUE GIANT EQUIPMENT CORPORATION

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