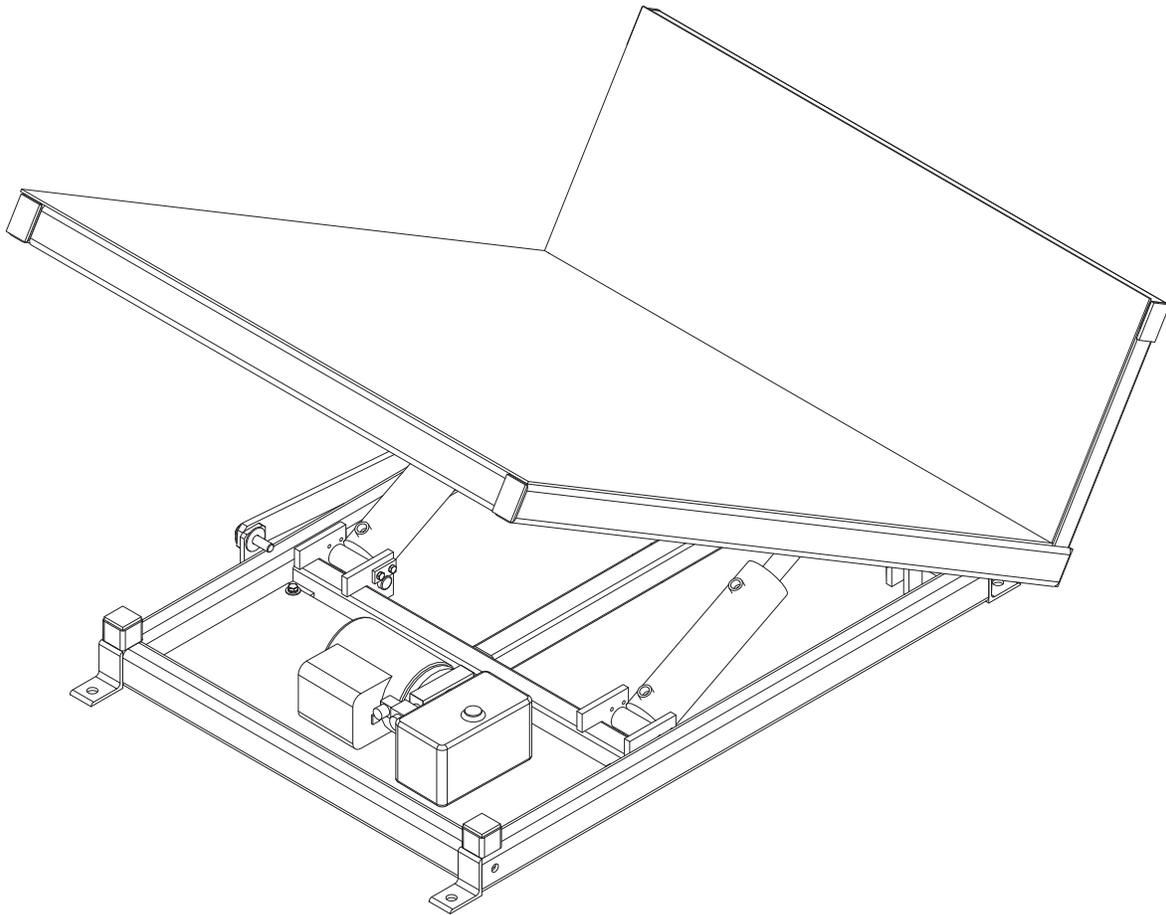


# OWNER'S MANUAL

## IN-PLANT ETT TILT TABLE



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>



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## 1.0 ABOUT THE TILT TABLE

The Blue Giant In-plant ETT Tilt Table is a high performance system. The In-plant Series provides load transfer/manipulation options for production facilities. The deck is constructed with beams welded at dynamic impact points to provide a sturdy deck support. Hydraulic components increase operating efficiency, operator safety, and reduce maintenance requirements.

The tilt functions have independent hydraulic tilts via facility-integratable controls and hand-held controls.

## 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>Location #:</b>

The manufacturer offers a full line of in-plant lift tables, tilters, turn tables, safety equipment, accessories, ergonomic equipment, 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). Please contact the your Blue Giant Dealer for latest information. Some features illustrated may be optional in certain market areas.

<b>NOTICE</b>
See "10.0 DECAL IDENTIFICATION AND LOCATION" on page 27 for serial number location.

## 2.0 INTRODUCTION

The following is a quick reference to important procedures that must be followed while using the In-plant ETT Tilt Table System. It is not intended to cover, or suggest that it does cover, all procedures necessary to ensure safe operation. All owners and operators should be aware of and abide by all workplace safety regulations applicable to the inspection and operation of the ETT Tilt Table. 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.
- ANSI standard MH29.2

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](http://www.ansi.org)



Lift Manufacturers Product Group (LIFT)

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/lift](http://www.mhi.org/lift)



## 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 1.800.872.2583.

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

### DEALER INFORMATION

Name:

Contact:

Telephone:

## 2.2 EXCLUSION OF LIABILITY

To the maximum extent permitted by applicable law, the manufacturer assumes no liability for damage or injury to persons or property that occur as a result of use of the In-plant ETT Tilt Table equipment. Furthermore, to the maximum extent permitted by applicable law, the manufacturer does not assume any liability for lost profits, operating downtimes, consequential, indirect, incidental, special, exemplary, punitive or enhanced damages, or similar losses, whether incurred by owner, authorized users and other third parties. By use of the In-Plant Table equipment, owner assumes all risk of liability for damage or injury to persons or property that occur as a result of use of the In-plant ETT Tilt Table equipment, including, with respect to owner, authorized users and other third parties.

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 advance notice. As the In-plant ETT Tilt Table equipment is a highly customizable product, please contact the manufacturer by telephone at 1.800.872.2583 for the latest information.

## 2.3 MANUFACTURER'S NOTE

The In-plant ETT Tilt Table equipment has been carefully inspected and tested at the manufacturer's plant prior to shipment, but **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 and the dealer of any damage WITHIN 24 HOURS.**

## 2.4 OWNER'S RESPONSIBILITY

The In-plant ETT Tilt Table equipment 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 In-plant ETT Tilt Table equipment and other components. The owner should, therefore, train and instruct operators in the safe use of the In-plant ETT Tilt Table equipment 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 In-plant ETT Tilt Table equipment usage and maintenance requirements.
  - Commissioning instructions
  - Operating instructions
  - Daily maintenance procedures checklist
  - Inspections procedures
  - Recommended spare parts lists

Upon receipt of any newly purchased In-plant ETT Tilt Table equipment, the owner shall verify the presence of owner's manuals, operating placards, and any other documentation necessary for training dock personnel how to use the equipment safely and effectively.

3. All Blue Giant In-plant ETT Tilt Table equipment 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 16.
4. In-plant ETT Tilt Table equipment that is structurally damaged, experiencing performance irregularities, or has been potentially compromised shall be removed from service until a trained and authorized manufacturer's representative can conduct an inspection and perform any necessary repairs.
5. As with any piece of machinery, In-plant ETT Tilt Table equipment requires routine maintenance, lubrication, and adjustments. Recommended procedures are itemized in the Planned Maintenance Program (PMP) checklist included in installation and technical manuals. It is recommended that for anything other than the basic maintenance procedures outlined in this manual, 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. See "12.0 DECAL IDENTIFICATION AND LOCATION" on page 45 in this manual for more information.
7. Unless specifically agreed to in writing by Blue Giant Equipment Corporation at the time of order (and prior to manufacture), all Blue Giant In-plant ETT Tilt Table equipment is sold as a complete offering and must not be altered or added to in any manner (which includes configuration and function) without written permission from an authorized manufacturer's representative. These changes shall also satisfy all safety recommendations of the original equipment manufacturer for the particular application of the In-plant ETT Tilt Table equipment.

8. If, at the request of the owner, Blue Giant does not supply all or some of the In-plant ETT Tilt Table 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.
9. 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.
10. Operational placard must be visible from equipment location and permanently attached to a wall or structure.
11. The owner shall ensure that inspections are performed to the tilting device 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>• Never operate a broken or damaged In-Plant Table. Repair immediately by a qualified service technician.</li> <li>• All loads must be centered and secured from rolling off the platform. Loose or unbalanced loads are dangerous.</li> <li>• While transferring load, be aware of potential fall risks from table edges.</li> </ul>

 <b>WARNING</b>
<ul style="list-style-type: none"> <li>• Do not use fingers or hands to remove foreign materials.</li> <li>• Deck may drop unexpectedly, keep people and objects clear of the area immediately under or near the tilt table.</li> <li>• Post safety warnings and barricade working area around the In-Plant Table and at ground level to reduce unauthorized use of the tilt during maintenance/service.</li> <li>• Tilt operator must be present during all steps of this procedure and keep an unobstructed view of tilter to ensure safe operation. Never leave the In-plant ETT Tilt Table unattended in the raised position.</li> <li>• Never leave loads sitting on the In-plant ETT Tilt Table.</li> <li>• Do not operate the In-plant ETT Tilt Table beyond its rated capacity. Before load transfers, verify the load does not exceed the single axle rolling load maximum rating as found on nameplate of the In-plant ETT Tilt Table.</li> <li>• Never attempt to tilt or hold the table by hand unless instructed by this manual and using caution. Serious personal injury could occur.</li> </ul>

 CAUTION

- Only trained personnel should operate or service this equipment.
- Always park the In-Plant Table equipment after use.
- Conduct routine inspections and maintenance. Failure to do so could cause equipment damage and or personal injury.
- Always contact your Blue Giant Dealer immediately if a malfunction occurs.

NOTICE

- Do not ground welding equipment to any electrical components.
- Do not attach welder as ground to tilt platform when welding on base frame assembly. Attach welder ground to base frame assembly only.
- 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.

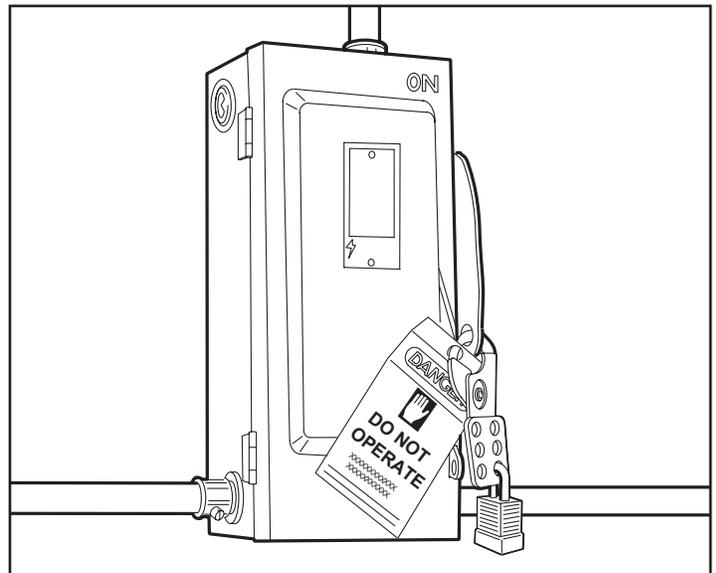
Blue Giant strongly recommends that only OSHA-approved and/or local jurisdiction lockout devices and procedures be utilized.

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.

## 4.1 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

As the In-plant ETT Tilt Table is part of an assembly line environment, the wiring diagrams and site documentation will give the correct control setup and use.

### 5.1 PUSH BUTTON CONTROLS

#### DANGER

- While tilter is moving, keep people and objects clear of areas under the platform and in the immediate tilt area.
- Fully read and understand the tilt operation. Practice safe load transfer methods. If you do NOT understand the complete tilt operating procedure and safe load transfer methods, refer to the Owner/Operator regarding local regulatory/jurisdictional and facility requirements.

#### WARNING

- Tilt operator(s) must be present during all steps of this procedure.
- Tilt operator(s) must keep an unobstructed view of tilt, any operation light/horn/bell, and other operators to ensure safe operation.
- Do not exceed (rated/tilting) capacity or load classification of tilt as listed on the manufacturer/product nameplate. Capacity includes: forklift/manual equipment, pallet(s), material(s)/goods, operator, and any other objects on the deck/platform. See “2.4 OWNER'S RESPONSIBILITY” on page 7. For nameplate location, see “10.0 DECAL IDENTIFICATION AND LOCATION” on page 27.
- To avoid bodily injury, stand clear of tilt while it is moving.

Depending on the in-plant installation, the ETT Tilt Table may have hand or pedal controls available. Consult the specific installation wiring diagram for these options, if present.

## 6.0 TILT TABLE MAINTENANCE STRUTS

This section describes the different functions of the Maintenance Struts. These procedures require at least temporary electrical power for the Powerpack to raise and lower the tilt table.

### 6.1 ENGAGING THE TILT TABLE MAINTENANCE STRUTS

The Maintenance Struts are engaged to perform cleaning or visual inspection under the tilt table.

#### DANGER

- Failure to properly secure the tilt table deck prior to working underneath it may result in bodily injury, or death.
- Engage the Maintenance Struts before visual inspecting or cleaning under the deck. If the struts cannot be successfully engaged, contact your Blue Giant Dealer.

#### WARNING

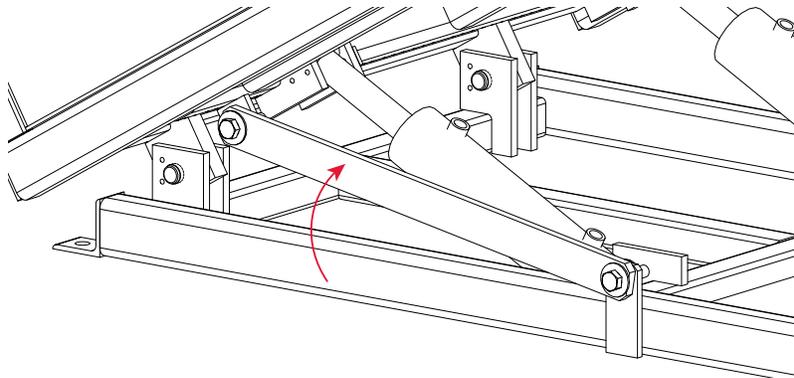
- Post safety warnings and barricade work area at ground level. Notify all affected personnel that work is being performed on the unit and follow proper lock-out procedure. Verify that power to the unit has been completely cut off and cannot be turned back on accidentally, as per OSHA requirement.
- Head protection and other applicable PPE is recommended when working under or around the raised deck.
- Use Maintenance Struts when working under the tilt table. (i.e. more than cleaning or visually inspecting)

#### CAUTION

- It is recommended that a retrieval tool be used when retrieving or replacing the Maintenance Struts from the stored positions.
- It is recommended that this procedure be performed with assistance.

1. Press and hold the **DOWN** button to lower the tilt table to the lowest height position.
2. Clear any load or debris on the tilt table's deck.
3. When the area around the tilt table is clear of personnel, equipment, and materials, press and hold the **UP** push button to raise the tilt table to a point where it is safe to deploy the Maintenance Struts then release the push button.
4. Examine the Maintenance Struts for damage or if it is missing. Contact your Blue Giant Dealer for service or repair, as required.
5. Flip or move the Maintenance Struts into the locked position. Only reach in far enough with a body part to move each Maintenance Strut.

**NOTE:** Actual product may not appear exactly as shown.



6. Press and hold the **DOWN** button to lower the tilt table until the Maintenance Struts are fully braced against the lower frame of the tilt table.
7. When the Maintenance Struts are fully braced and holding the tilt table in position, an authorized person shall lock out and tag out the electrical connections to the tilt table hydraulic Powerpack.
8. If safe to do so, use an extension tool to clear any debris or material from under the tilt table.
9. Inspect the tilt table and minimize any time spent under the tilt table.

## 6.2 DISENGAGING THE TILT TABLE MAINTENANCE STRUTS

The Maintenance Struts are disengaged after a cleaning or visual inspection is completed under the tilt table.

### DANGER

- Failure to properly secure the tilt table deck prior to working underneath it may result in bodily injury, or death.
- Engage the Maintenance Struts before visual inspecting or cleaning under the deck. If the struts cannot be successfully engaged, contact your Blue Giant Dealer.

### WARNING

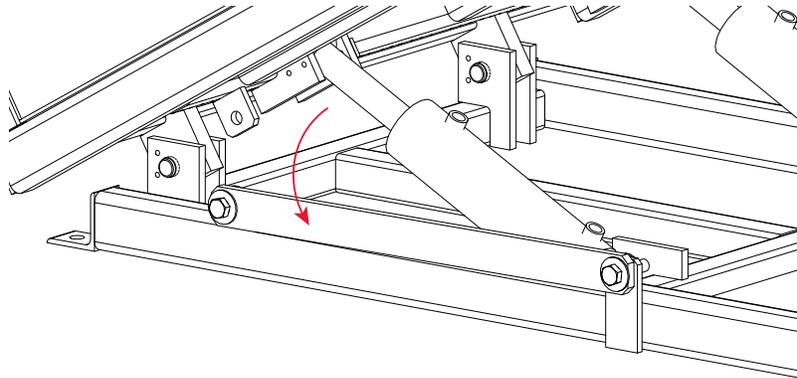
- Post safety warnings and barricade work area at ground level. Notify all affected personnel that work is being performed on the unit and follow proper lock-out procedure. Verify that power to the unit has been completely cut off and cannot be turned back on accidentally, as per OSHA requirement.
- Head protection and other applicable PPE is recommended when working under or around the raised deck.
- Use Maintenance Struts when working under the tilt table. (i.e. more than cleaning or visually inspecting)
- Do not stand in the pathway of the tilt table during the disengagement process in case the tilt table falls unexpectedly.

### CAUTION

- It is recommended that a retrieval tool be used when retrieving or replacing the Maintenance Struts from the stored positions.
- It is recommended that this procedure be performed with assistance.

1. Examine the Maintenance Struts for damage or if any are missing. Contact your Blue Giant Dealer for service or repair, as required.
2. When all work is completed and the area around the tilt table is cleared, an authorized person shall inform all affected personnel before removing the lock out and tag out from the electrical connections to the tilt table hydraulic Powerpack.
3. Press and hold the **UP** button to gently raise the tilt table off of the Maintenance Struts.
4. Flip the Maintenance Struts to the stored position. Use an extension tool (i.e. broom handle or wood) to move the Maintenance Strut. As much as possible, never reach in with a body part to move the Maintenance Strut.

**NOTE:** Actual product may not appear exactly as shown.



5. Press and hold the **DOWN** button to lower the tilt table to ground or lowest height position then release the button.

## 7.0 MAINTENANCE

Develop a planned or scheduled maintenance plan to keep the tilt table in good operating order.

### DANGER

- Failure to properly secure the tilt table deck prior to working underneath it may result in bodily injury, or death.
- Engage the Maintenance Struts before visual inspecting or cleaning under the deck. If the struts cannot be successfully engaged, contact your Blue Giant Dealer.

### 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 tilt table 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.
- When conducting maintenance, use only Blue Giant approved lubricants. Improper lubrication or adjustments may cause operational problems.

## 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 tilt table. Necessary adjustments and repairs can be done during the PMP, which will increase the life of components and reduce unscheduled downtime.

Recommended procedures for a periodic planned maintenance program that covers inspections, operational checks, cleaning, lubrication, and minor adjustments are outlined in the 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 tilt table maintenance requirements.

## 7.2 OPERATOR DAILY INSPECTION

The tilt table 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 "7.7 DAILY MAINTENANCE PROCEDURES (DMP) CHECKLIST" on page 18.

## 7.3 ROUTINE SERVICING AND MAINTENANCE

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

## 7.4 PLANNED MAINTENANCE PROGRAM INTERVALS

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

## 7.5 MAINTENANCE SEQUENCE

Follow this procedure for maintenance of the tilt table.

1. Cleaning, including under tilt table and/or in pit area.
2. Visual inspection of all components.

3. Lubrication, as required (by a trained service technician only).
4. Test operate all functions.
5. Adjustments, if required (by a trained service technician only).
6. Record inspection details and findings for owners' files.

## 7.6 POWERPACK RESERVOIR LEVEL

Only trained technicians should fill the Powerpack reservoir. Contact your Blue Giant Dealer regarding oil options.

### WARNING

- Do not attempt to install, make repairs, or adjustments. Only a trained and authorized service technician should perform the installation process. Contact your Blue Giant Dealer.
- 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 tilt table 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, make certain the power is disconnected and properly tagged or locked out, in accordance with OSHA regulations and approved electrical codes.
- When conducting maintenance, use only Blue Giant approved lubricants. Improper lubrication or adjustments may cause operational problems.

Inspect and top up Powerpack reservoir.

1. Without a load on the deck, raise the tilt table to sufficient height to deploy the Maintenance Strut.
2. Deploy the Maintenance Strut. See “6.1 ENGAGING THE MAINTENANCE STRUTS” on page 14.
3. Add hydraulic oil only when the tilt table is in the raised position and only fill up to an oil level normal for the raised position. Filling past the normal level may cause spilling when tilt table is lowered again.
4. When the inspection is complete, follow the procedures to disengage the Maintenance Strut, and the tilt table Service Stand then the Maintenance Strut. See “6.2 DISENGAGING THE MAINTENANCE STRUTS” on page 15.





DEALER: \_\_\_\_\_

**PLANNED MAINTENANCE PROGRAM - PMP CHECKLIST**

In-plant ETT Tilt Table

<b>Customer:</b>		<b>SWO#</b>		
<b>Location:</b>		<b>Date:</b>		
<b>Contact:</b>	<b>Telephone:</b>	<b>Inspected By:</b>		
<b>Signature:</b>	<b>Model / Serial #:</b>	<b>Voltage:</b>	<b>Phase:</b>	<b>HP:</b>

**WARNING**

<b>NOTE TO TECHNICIAN:</b> ALL ITEMS ON LIST <b>MUST</b> BE VERIFIED AND CHECKED. ITEMS WITH AN * REQUIRE LUBRICATION.	<b>Position #</b>				
	✓	✓	✓	✓	✓
	Barricade area				
Disconnect power per OSHA requirements					
Clean debris from in and around tilt table					

Mark the following with one of the following: ✓ = GOOD ✗ = COMMENTS / REQUIRES REPAIR	<b>Position #</b>									
	✓	✗	✓	✗	✓	✗	✓	✗	✓	✗
	Mount area									
Wire harness / cables										
Hydraulic hose assembly										
Cylinder(s)										
Structural damage										
Electrical connectors										
Lowering speed flow control (If present)										
Leg rollers										
Scissor pin bushings *										
Tilt Maintenance Strut										
Check that operational placard present and legible										
Complete operating cycle by checking lights for proper sequence, both inside and outside if so equipped										

Unit Certified for Maximum Tilt Capacity	Position #	Comments (for items marked with an ✗):

## 8.0 OPERATING INSTRUCTIONS

Depending on the In-plant installation, the tilt table may have controls available. Consult the specific installation wiring diagram for these options, if present.

### 8.1 LOAD TRANSFER

When transferring loads onto and off of a tilt table, the cargo weight distribution should **NEVER** exceed the maximum value on the weight rating decal. The tilt table weight rating decal lists the maximum load values for the tilt table.

### 8.2 RAISING OR LOWERING TILT TABLE

The following Danger and Warning list apply to any tilt table.

#### DANGER

- While tilt table is moving, keep people and objects clear of areas under the platform and in the immediate tilt table area.
- Fully read and understand the tilt table operation. Practice safe load transfer methods. If you do NOT understand the complete tilt table operating procedure and safe load transfer methods, refer to the Owner/Operator regarding local regulatory/jurisdictional and facility requirements.
- While monitoring the tilt table, be aware of potential fall risks from deck edges.

#### WARNING

- The tilt table operator(s) must be present during all steps of this procedure.
- The tilt table operator(s) must keep an unobstructed view of tilt table, any operation light/horn/bell, and other operators to ensure safe operation.
- Do not exceed (rated/tilt table) capacity or load classification of tilt table as listed on the manufacturer/product nameplate. Capacity includes: any object(s) on the deck/platform. See "2.4 OWNER'S RESPONSIBILITY" on page 7. For nameplate location, see "10.0 DECAL IDENTIFICATION AND LOCATION" on page 27.
- To avoid bodily injury, stand clear of tilt table while it is moving.

Read and understand these instructions and safety rules before operating tilt table:

- Before using tilt table, inspect it for proper operation and condition. If any unsafe condition exists, remove unit from service until repairs are made.
- Before using tilt table, inspect any/all safety devices to verify that they are in place and functioning properly.
- Prior to placing a load on tilt table, read and understand the rated capacity of the unit, as labeled on the nameplate attached to the side of the deck assembly. The rated tilt table capacity is the maximum uniformly distributed load permitted for the unit.

## 9.0 RECOMMENDED PARTS

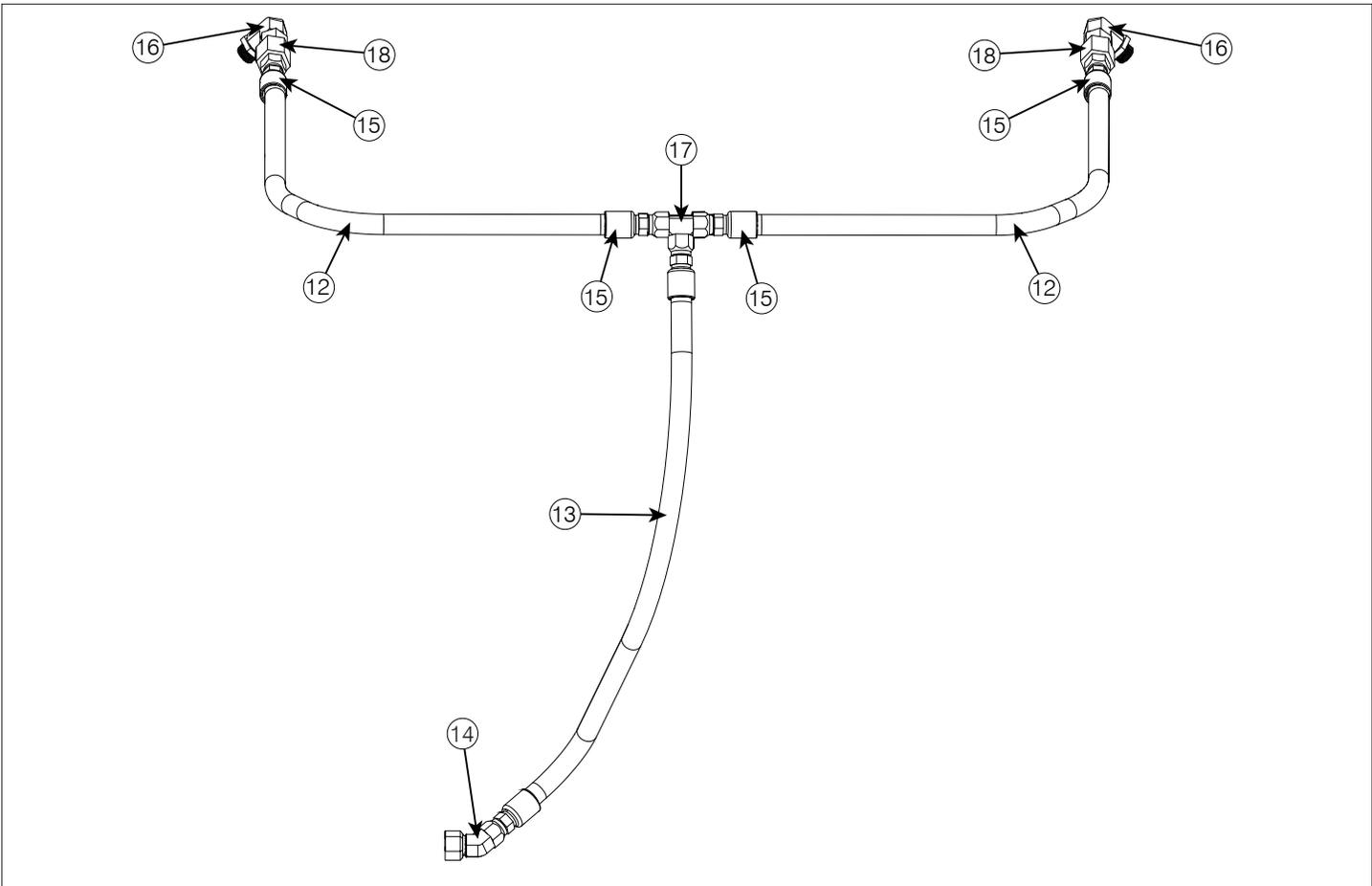
### 9.1 STANDARD OPERATIONAL COMPONENTS

ITEM	QTY	PART NO.	DESCRIPTION
1	1	Varies on Model	WELDMENT, DECK, ZPL, 6458
2	1	Varies on Model	BASE FRAME
3	2	Varies on Model	CYLINDER ASSY, 3"DIA, 8-5/8" STROKE, S/A
4	2	2022722	PIN, 1" OD X 6" L SUPERIOR SHAFTING
5	2	2022724	PIN, 1" OD X 4-1/2" L SUPERIOR SHAFTING
6	2	018-017	FIBERGLIDE 1in ID X 1-1/8in OD X 1in L - PSA-1127-1
7	2	2022723	PIN, 1" OD X 3" L SUPERIOR SHAFTING
8	6	2018378	PIN RETAINER PLATE
9	12	012-211	WASHER,FLAT,ZN PLD,5/16,PREFERRED
10	12	012-200	WASHER,LOCK,SPG,REGULAR,5/16,PREFERRED
11	12	010-037	SCREW,CAP,HEX HD,5/16-18x0.75X0.75,-,PREFERRED
12	1	Varies on Model	HOSE,23 3/4 in LG,#6 HIGH PRESSURE
13	2	Varies on Model	HOSE,21 1/8 in LG,#6 HIGH PRESSURE
14	1	071-0065	FITTING,ELBOW,45DEG,6502-06-06
15	6	071-0075	SWIVEL,FJX-06-06
16	2	071-0070	FTNG;ELBOW;90DEG; 3/8JIC
17	1	034-551	#6 JIC RUN TEE FITTING
18	2	071-0004	VELOCITY FUSE,1/4MALE NPT X 3/8MALE JIC
19	1	Varies on Model	PENDANT,2 BUTTON, 251200
20	2	2023630-03	MAINT. STRUT,ETT45,3/8" X 2" X 15"L

## 9.2 OPTIONAL SUPPORT COMPONENTS

ITEM	QTY	PART NO.	DESCRIPTION
1	1	Varies on Model	WELDMENT, DECK, ZPL, 6458
2	1	Varies on Model	BASE FRAME
3	2	Varies on Model	CYLINDER ASSY, 3"DIA, 8-5/8" STROKE, S/A
4	2	2022722	PIN, 1" OD X 6" L SUPERIOR SHAFTING
5	2	2022724	PIN, 1" OD X 4-1/2" L SUPERIOR SHAFTING
6	2	018-017	FIBERGLIDE 1in ID X 1-1/8in OD X 1in L - PSA-1127-1
7	2	2022723	PIN, 1" OD X 3" L SUPERIOR SHAFTING
8	6	2018378	PIN RETAINER PLATE
9	12	012-211	WASHER,FLAT,ZN PLD,5/16,PREFERRED
10	12	012-200	WASHER,LOCK,SPG,REGULAR,5/16,PREFERRED
11	12	010-037	SCREW,CAP,HEX HD,5/16-18x0.75X0.75,-,PREFERRED

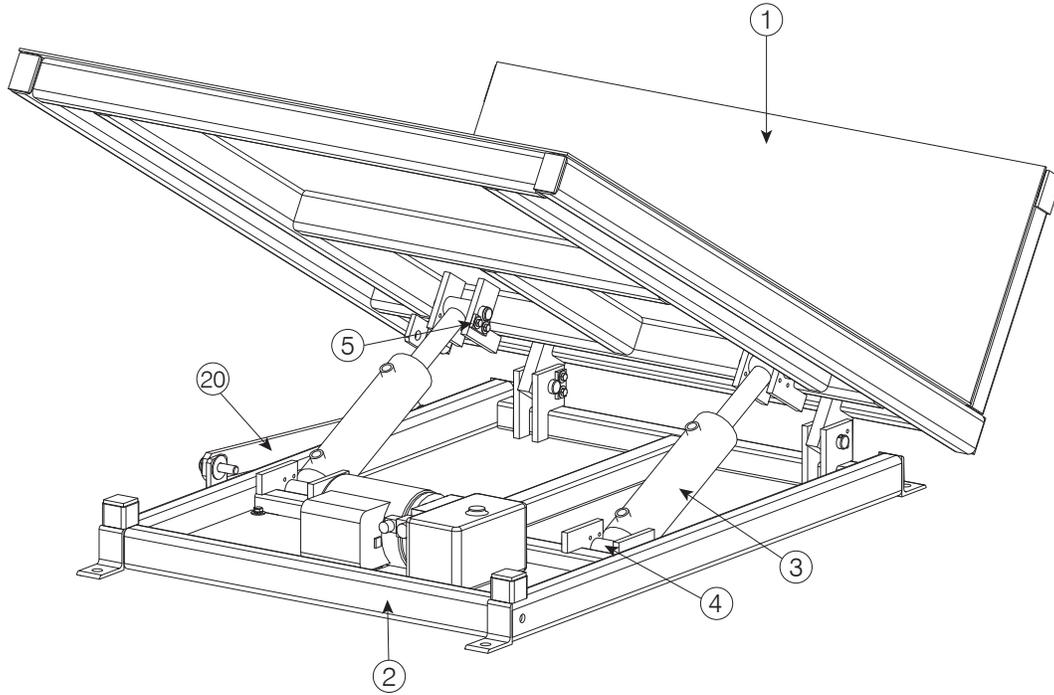
TILT TABLE HOSES			
ITEM	QTY	PART NO.	DESCRIPTION
12	1	Varies on Model	HOSE,23 3/4 in LG,#6 HIGH PRESSURE
13	2	Varies on Model	HOSE,21 1/8 in LG,#6 HIGH PRESSURE
14	1	071-0065	FITTING,ELBOW,45DEG,6502-06-06
15	6	071-0075	SWIVEL,FJX-06-06
16	2	071-0070	FTNG;ELBOW;90DEG; 3/8JIC
17	1	034-551	#6 JIC RUN TEE FITTING
18	2	071-0004	VELOCITY FUSE,1/4MALE NPT X 3/8MALE JIC



### 9.3 TILT TABLE ROLLING END

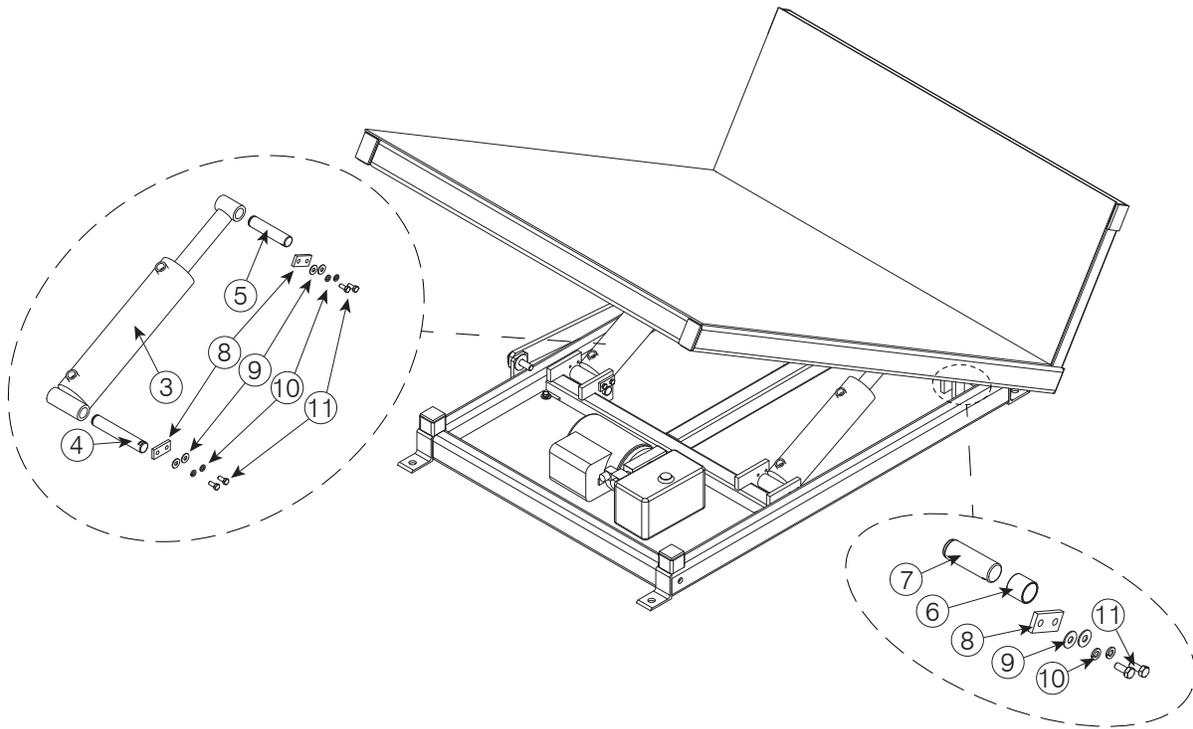
This diagram displays the tilt table and the field replaceable parts.

**NOTE:** Actual product may not appear exactly as shown.



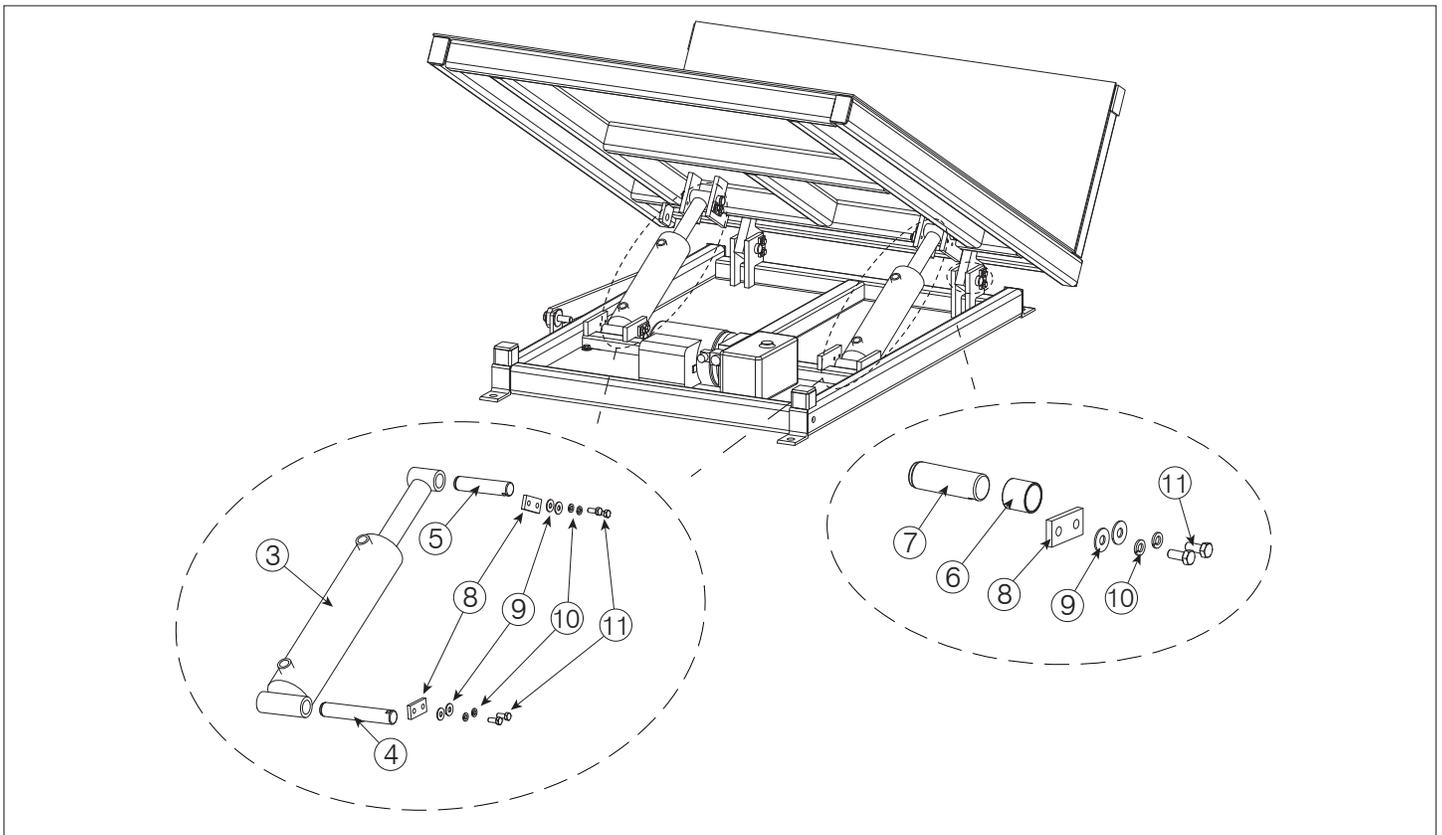
### 9.4 TILT TABLE LOWER FRAME AND ROLLING END DETAIL

This diagram displays the rolling wear portions, tilt cylinder detail, and leveling components.



### 9.5 TILT TABLE UPPER FRAME AND FIXED END DETAIL

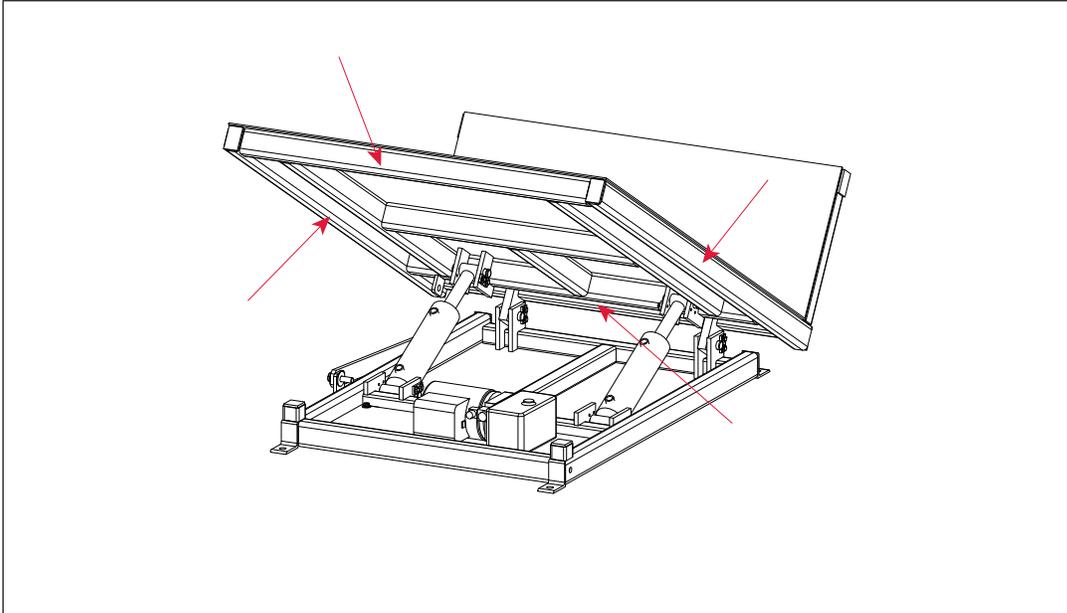
This diagram displays the tilt table skeleton and the lower frame components. Subframe and Powerpack removed for clarity



## 9.6 ACCORDION SAFETY SKIRT

This diagram displays the accordion safety skirt hangers (if present) under the deck and where to anchor it on the lower frame.

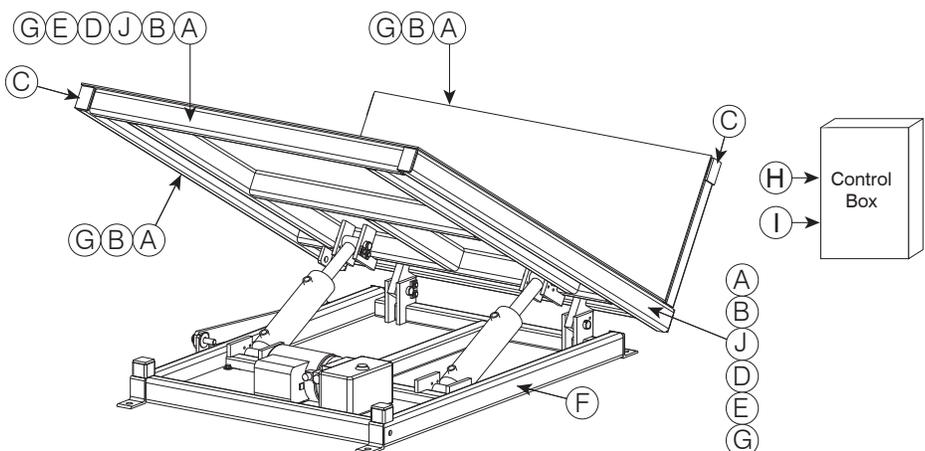
**NOTE:** Actual product may not appear exactly as shown.



# 10.0 DECAL IDENTIFICATION AND LOCATION

These labels inform operators and personnel about hazardous areas on and around the tilt table.

**NOTE:** Actual product may not appear exactly as shown.



ITEM	QTY	PART NO.	DESCRIPTION
A	2 or 4 (varies on table size)	038-045	EF Warns personnel to read operating instructions before using the tilt table and warn of possible bodily injury ES
B	2 or 4 (varies on table size)	038-046	EF Warns personnel to employ the Maintenance Strut and Service Stand before working on and under the tilt table ES
C	4	038-237	Safety Stripe tape to alert personnel of hazardous areas and edges (i.e. toe guards, edges)
D	2	(varies on model)	Deck Capacity (example only) (locations may vary)
E	2	038-1400	Blue Giant logo (locations may vary)
F	2	038-1106EFS	Nameplate to identify the tilt table, serial number, and load transfer capacities
G	1 or 2	038-1203	E Warns personnel to stand clear of tilt table and the immediate area while it is in operation S
H	1	114-308	Wiring diagram for facility hookup (Keep in electrical box) (Sample only shown)
I	1	038-1105EFS	Reminds personnel to lock out the electrical feeds before attempting work on the tilt table (on exterior of electrical box)
	-	-	Refer to control box, electrical diagrams, and site documentation for more specific information.
J	2	038-1097	Proposition 65 Cancer and Reproductive Harm Warning - California only (locations may vary)
K	1	038-1107EFS	Rated deck capacity and electrics (Located on Powerpack)

## OPERATION PLACARD

The Operation Placard (Part. No. 038-545E) is to be wall mounted near the tilt table controls. A duplicate is provided on the following page.



# WARNING

## APPLIES TO BLUE GIANT TILT TABLES

Do not operate this tilt table without proper training and authorization.

### **READ AND UNDERSTAND THE FOLLOWING:**

*The instructions and warnings on this placard and in the owner's manual.  
The warnings on the tilt table decals.*

Do NOT go under the tilt table platform to clean or perform routine maintenance unless the maintenance device is safely and securely engaged.

#### **Prior to using the tilt table:**

- *Verify that all safety devices (guard rails, restraint chains, toe guards, and warning bells if so equipped), are in place and functioning properly.*

- *Operate the tilt table through one complete tilt cycle and verify its proper operation.*

*Inspect the tilt table for signs of structural damage or mechanical malfunction. If damage is observed or the unit fails to operate properly, remove them from service and notify maintenance personnel immediately.*

Do NOT exceed the capacity as stated on the nameplate.

Ensure that the tilt table serial nameplate is present and legible.

Do NOT leave the control station where it can be accidentally operated or damaged.

Be aware that tilt capacity may be reduced when loads are rolled over the platform sides or edges. Refer to the nameplate for reduced capacity under these conditions.

If loads are mobile, secure them in a fixed position before operating the tilt table.

Ensure that all personnel near the tilt table are aware that it is being operated.

Keep objects, control cables and debris away from the tilt table platform and its travel path.

Ensure that the area around the tilt table is free of objects and spills that could become trip hazards.

#### **If maintenance or service is required:**

- *Only authorized service personnel shall provide maintenance / service on the tilt table.*

- *Follow approved lockout procedures.*

- *Do NOT work on or under the tilt table without properly engaging the tilt's maintenance device. Blue Giant recommends the use of a secondary means of securing the tilt table while performing repairs under the deck.*

- *The tilt shall not be modified or altered without written approval from an authorized Blue Giant representative.*

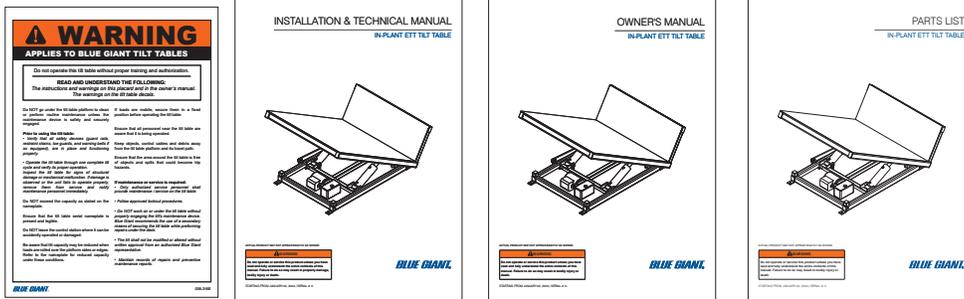
- *Maintain records of repairs and preventive maintenance reports.*

## 11.0 EQUIPMENT COMPONENT ILLUSTRATIONS

This section displays the various hardware components.

## 11.1 COMPONENTS AS SHIPPED CHECKLIST

This section displays the shipped hardware components.

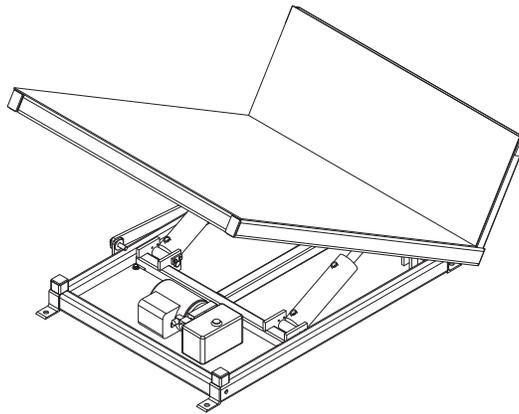


B

C

D

E



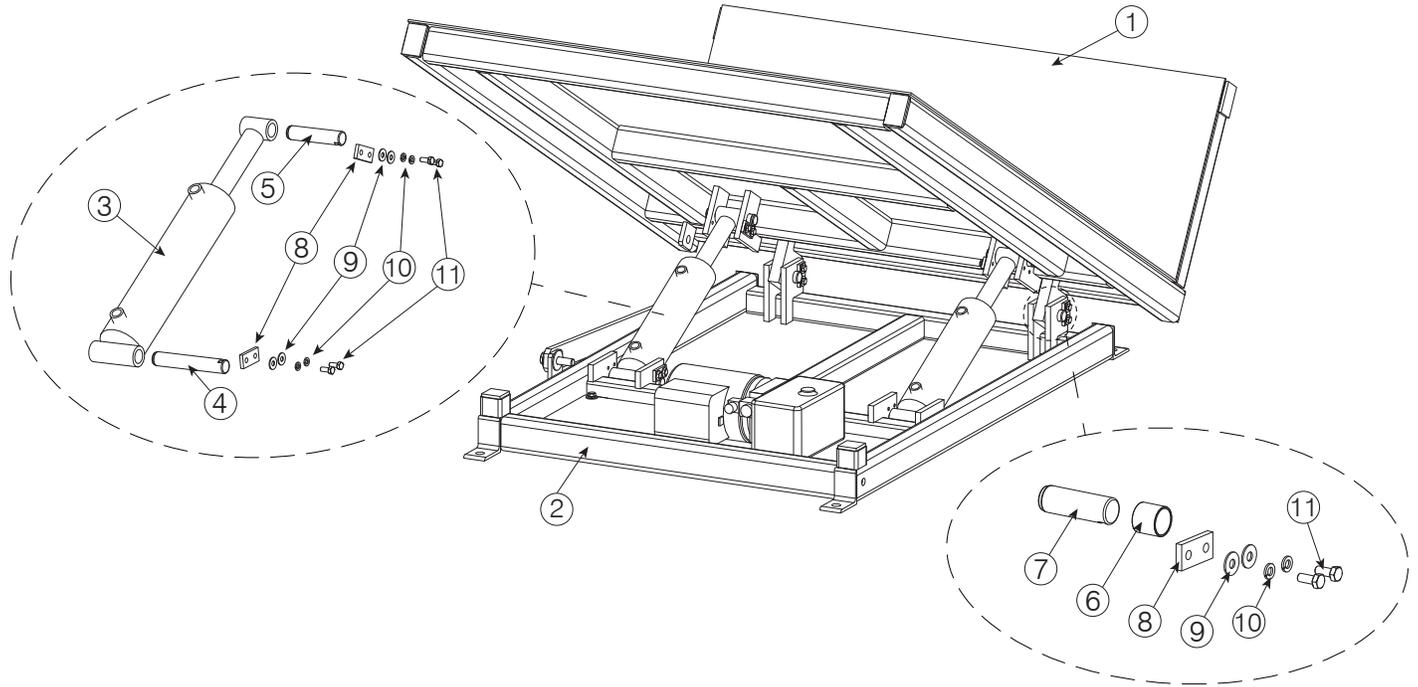
A

✓	CALLOUT	QTY.	PART NO.	DESCRIPTION	APPROX. WEIGHT	
	A	1	Model Dependent	ETT Tilt Table	Varies by Model	
	B	1	038-316E	Operation/Warning Placard	—	—
	C	1	038-341EI	Installation Manual	—	—
	D	1	038-341E	Owner's Manual	—	—
	E	1	038-341EPL	Parts List	—	—

## 11.2 TILT TABLE MECHANICAL ASSEMBLY

This diagram shows a detailed view of the tilt table assembly.

**NOTE:** Actual product may not appear exactly as shown.



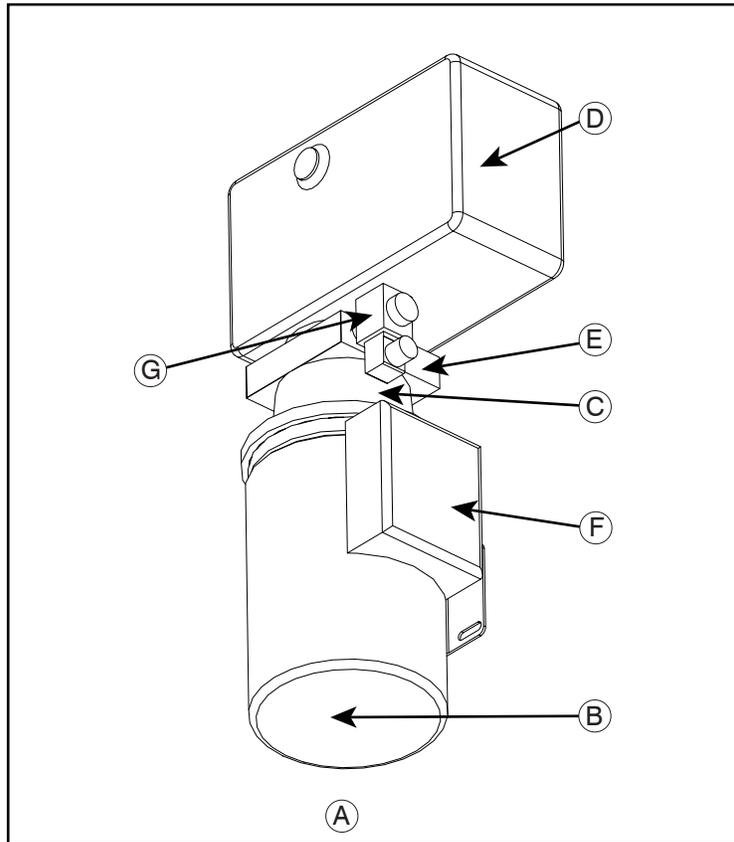
ITEM	QTY	PART NO.	DESCRIPTION
1	1	Varies on Model	WELDMENT, DECK, ZPL, 6458
2	1	Varies on Model	BASE FRAME
3	2	Varies on Model	CYLINDER ASSY, 3"DIA, 8-5/8" STROKE, S/A
4	2	2022722	PIN, 1" OD X 6" L SUPERIOR SHAFTING
5	2	2022724	PIN, 1" OD X 4-1/2" L SUPERIOR SHAFTING
6	2	018-017	FIBERGLIDE 1in ID X 1-1/8in OD X 1in L - PSA-1127-1
7	2	2022723	PIN, 1" OD X 3" L SUPERIOR SHAFTING
8	6	2018378	PIN RETAINER PLATE
9	12	012-211	WASHER,FLAT,ZN PLD,5/16,PREFERRED
10	12	012-200	WASHER,LOCK,SPG,REGULAR,5/16,PREFERRED

ITEM	QTY	PART NO.	DESCRIPTION
11	12	010-037	SCREW,CAP,HEX HD,5/16-18x0.75X0.75,-,PREFERRED
12	1	Varies on Model	HOSE,23 3/4 in LG,#6 HIGH PRESSURE
13	2	Varies on Model	HOSE,21 1/8 in LG,#6 HIGH PRESSURE
14	1	071-0065	FITTING,ELBOW,45DEG,6502-06-06
15	6	071-0075	SWIVEL,FJX-06-06
16	2	071-0070	FTNG;ELBOW;90DEG; 3/8JIC
17	1	034-551	#6 JIC RUN TEE FITTING
18	2	071-0004	VELOCITY FUSE,1/4MALE NPT X 3/8MALE JIC
19	1	Varies on Model	PENDANT,2 BUTTON, 251200
20	2	2023630-03	MAINT. STRUT,ETT45,3/8" X 2" X 15"L

## 12.0 POWERPACK PART IDENTIFICATION

The assembly and parts of the Powerpack are listed below for easy reference.

**NOTE:** Refer to the electrical drawings for specific wiring requirements



TILT TABLE POWERPACK # PART NUMBER VARIES ON MODEL		
ITEM	QTY	DESCRIPTION
A	1	POWERPACK 2HP // GPM
B	1	Motor
C	1	Pump (not shown)
D	1	Tank/Reservoir
E	1	Manifold
F	1	Junction Box
G	1	Solenoid Valve

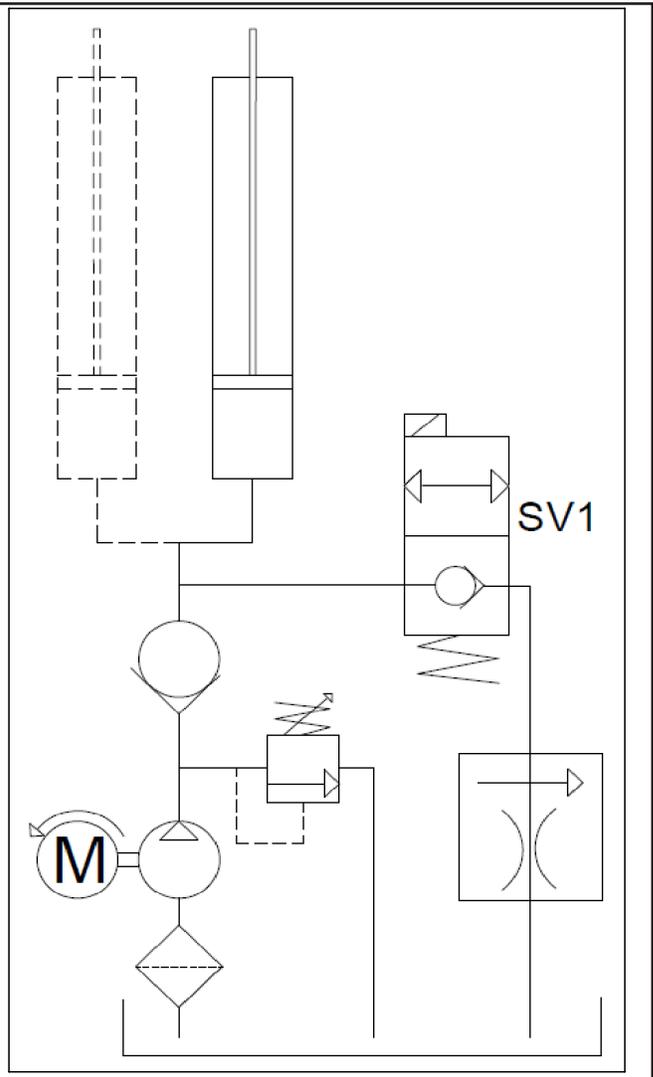
## 12.1 HYDRAULIC SCHEMATIC

This diagram illustrates a sample (tilt power up and gravity power down) Powerpack hydraulic circuit.

**NOTE:** Always refer to site documentation for installation specifics.

TRUTH TABLE:

ACTION	MOTOR	SV1
DECK UP	X	
DECK DOWN		X



### 13.0 TROUBLESHOOTING

Use this section to help diagnose issues if the tilt table is not operating as specified.

 **DANGER**

- Failure to properly secure the tilt table deck prior to working underneath it may result in bodily injury, or death.
- Engage the Maintenance Struts before visual inspecting or cleaning under the deck. If the struts cannot be successfully engaged, contact your Blue Giant Dealer.

 **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 tilt table 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.
- When conducting maintenance, use only Blue Giant approved lubricants. Improper lubrication or adjustments may cause operational problems.

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 Equipment Dealer.

- Pressing the **UP** push button energizes pump which supplies fluid under pressure to cylinder for tilting the deck. A check valve (inside pump or in line) prevents any back flow of oil through pump when it is shut off.
- Pressing the **DOWN** push button opens solenoid lowering valve which allows fluid from the cylinder to return to reservoir. Lowering speed is controlled by load lowering valve. Lowering is factory set for safe lowering and normally requires no further adjustment.
- If a limit switch is used to control upward travel, it is electrically connected in series with the **UP** push button switch.
- Upward travel of the deck is limited by stops on the leg roller tracks of the lower frame (in some cases internal stops within cylinders are used to limit travel). These stops should never be used to position deck at intended raised height.

PROBLEM	PROBLEM CAUSED
Deck will not raise.	<p><b>Foreign material lodged between side of deck and lower frame.</b> Remove and discard foreign material as required.</p> <p><b>Equipment or goods parked on tilt table deck.</b> Remove and test operate the tilt table. Verify tilt table capacity before resuming.</p> <p><b>Low hydraulic oil fluid in power unit.</b> Damaged hose or other oil leak, repair and refill with approved hydraulic oil as required.</p> <p><b>Incorrect motor rotation: three phase power supply only.</b> Contact qualified personnel to correct.</p> <p><b>Fuse and / or overload blown.</b> Check fuse and / or overload reset.</p> <p><b>Filter may have blockages.</b> Clean or replace suction filter.</p> <p><b>Valve may have blockages.</b> Replace / repair if necessary.</p> <p><b>Pump not running at correct system pressure.</b> Replace / repair if necessary.</p> <p><b>UP push button/open circuit.</b> Check for open circuit in UP limit set improperly contact block or broken wire in harness.</p> <p><b>Wrong voltage.</b> Check line voltage to nameplate voltage.</p> <p><b>Motor connected to high voltage connection on lower voltage feed.</b> Check motor connection to nameplate.</p> <p><b>Control fuse blown.</b> Replace.</p> <p><b>Interlock devices.</b> Check all switches.</p> <p><b>Shipping bolts not removed.</b> Remove.</p> <p><b>Hydraulic hose pinched.</b> Check hose for pinching, folding, or object on top of hose.</p>
The tilt table deck does not maintain steady angle.	<p><b>Oil leak may be present.</b> Repair leak.</p> <p><b>Motor check valve is defective.</b> Replace, if necessary.</p> <p><b>Down solenoid valve is defective.</b> Replace, if necessary.</p>
The tilt table deck locked in "UP" position. When <b>DOWN</b> button is pushed, a click can be heard.	<p><b>Velocity fuse locked.</b> Contact your Blue Giant Dealer.</p> <p><b>If equipped, lowering speed valve closed.</b> Open to set proper lowering speed.</p>
Deck will not lower. No clicking sound heard when a button is pressed.	<p><b>DOWN push button broken / open circuit.</b> Check for open circuit in contact block, broken wire in harness. Scissor leg bushings seized.</p> <p><b>Lowering valve defective.</b> Replace.</p>
Deck raises slowly.	<p><b>Pressure relief bypassing.</b> Foreign material lodged between ball and seat. Contact your Blue Giant Dealer.</p> <p><b>Faulty Power Pack.</b> Replace Powerpack.</p> <p><b>Weight overload.</b> Remove weight until load matches nameplate weight capacity rating.</p>

## 14.0 OPTIONAL EQUIPMENT

These components are available as additional options for the ETT Tilt Table.

### 14.1 SAFETY FEATURES

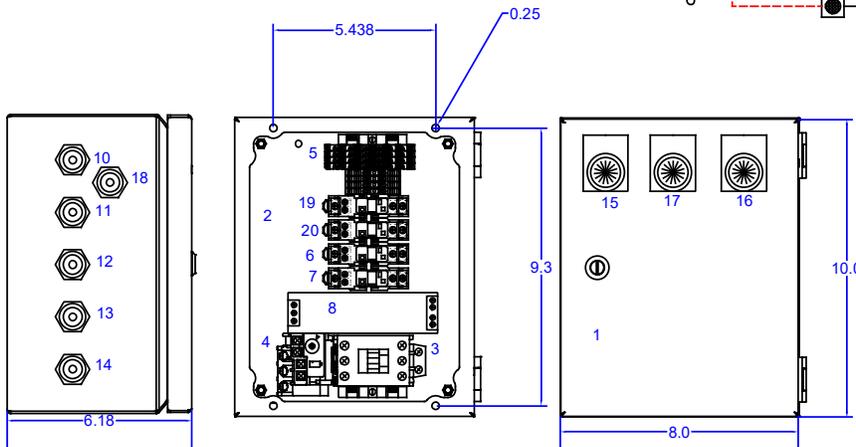
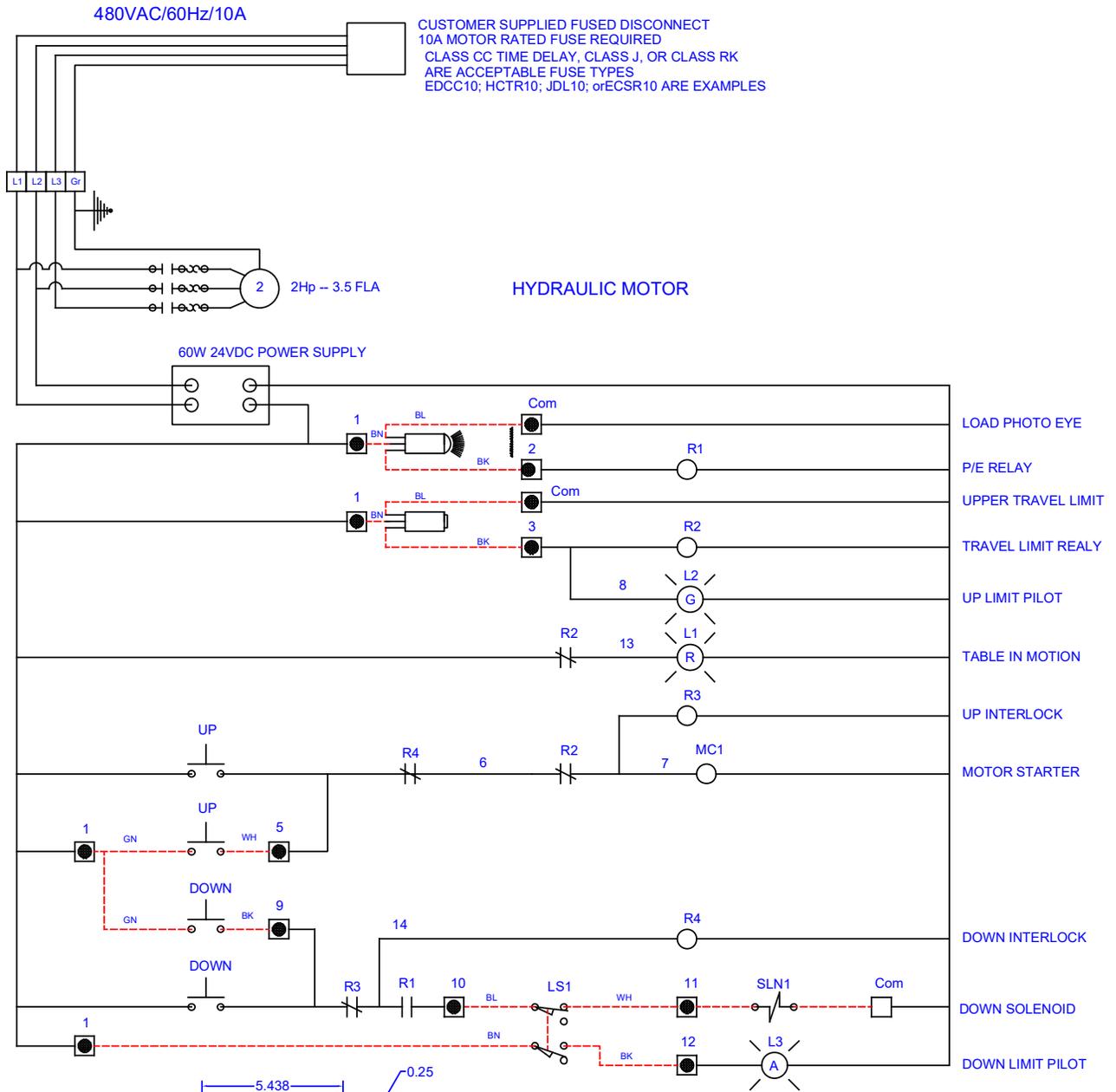
These features provide greater personnel protection and operating awareness.

- Keyed lock and E-Stop push button options on push button controls. Keyed lock provides greater security and access control. E-Stop provides protection for personnel and material.
- Factory set up travel limit switch limits the maximum vertical elevation of the tilt table.
- Accordion safety skirting acts as a barrier to keep under the tilt table clean and provide personnel awareness.

# 15.0 WIRING DIAGRAM

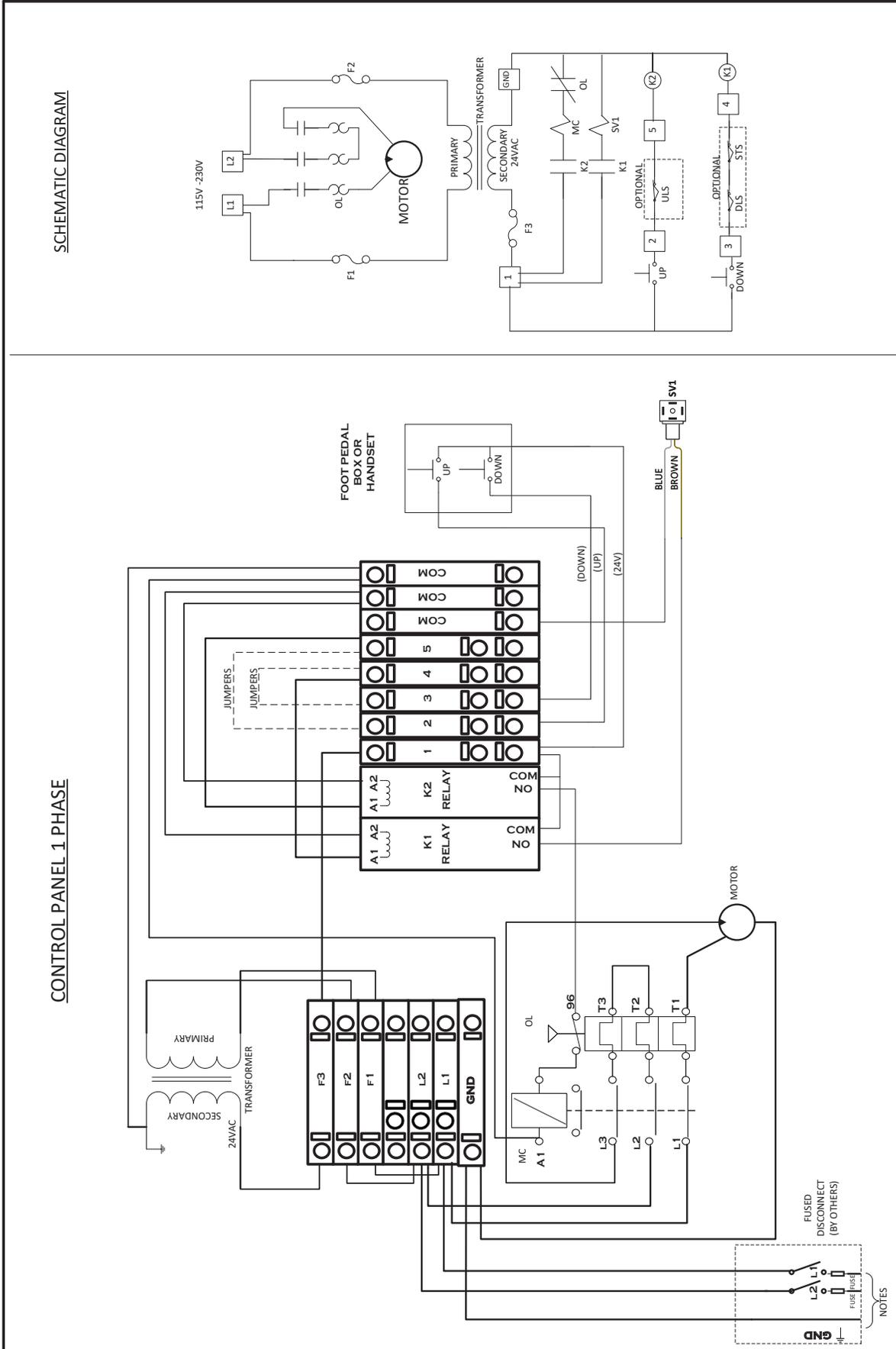
## NOTICE

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.



PANEL LAYOUT		
ITEM	DESCRIPTION	LEGEND
1	CABINET NEMA 12	
2	BACK PLANE - GALVANIZED	
3	MOTOR CONTACTOR	MC1
4	OVERLOAD - CLASS 10	OL
5	FIELD TERMINALS	VARIES
6	UP TRAVEL LIMIT RELAY	R1
7	LOAD RELAY	R2
8	60W x 24VDC POWER SUPPLY	PS1
9	RESERVED	
10	SENSOR CORD ENTRY	SENSORS
11	PENDANT CORD ENTRY	PENDANT 1
12	SOLENOID CORD ENTRY	SOLENOID
13	POWER CORD ENTRY	POWER
14	MOTOR CORD ENTRY	MOTOR
15	UP LIMIT PILOT	UP LIMIT
16	DOWN LIMIT PILOT	DOWN LIMIT
17	TABLE IN MOTION PILOT	TABLE NOT UP
18	PENDANT CORD ENTRY	PENDANT 2
19	DOWN INTERLOCK RELAY	R4
20	UP INTERLOCK RELAY	R3

# 15.1 WIRING DIAGRAM — 110V SINGLE PHASE 60 HZ



<p><b>BLUE GIANT</b></p> <p>NOTES: DISCONNECT &amp; MOTOR PROTECTION MUST BE PROVIDED BY OTHERS TO CONFORM WITH LOCAL &amp; NATIONAL CODES &amp; REGULATIONS. BONDING BETWEEN CONDUITS IS AUTOMATIC.</p> <p>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 PROHIBITED.</p> <p>410 Admiral Boulevard, Mississauga, Ontario, L5T2N6 ■ 6350 Burnt Poplar Road, Greensboro, NC, 27409 ■ (800)668-7078 or (800)USA-BLUE ■ Fax: 905-457-2313 ■ www.bluegiant.com ■ info@bluegiant.com</p>	<p>DESCRIPTION</p> <p>LFTC WIRING DIAGRAM 115-230 VOLT/1PH/50-60 HZ</p>	<p>DRAWING NO</p> <p>WD6003-1LFT</p>
	<p>DRAWN</p> <p>G.SINGH</p>	<p>DATE</p> <p>2023-01-20</p>





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