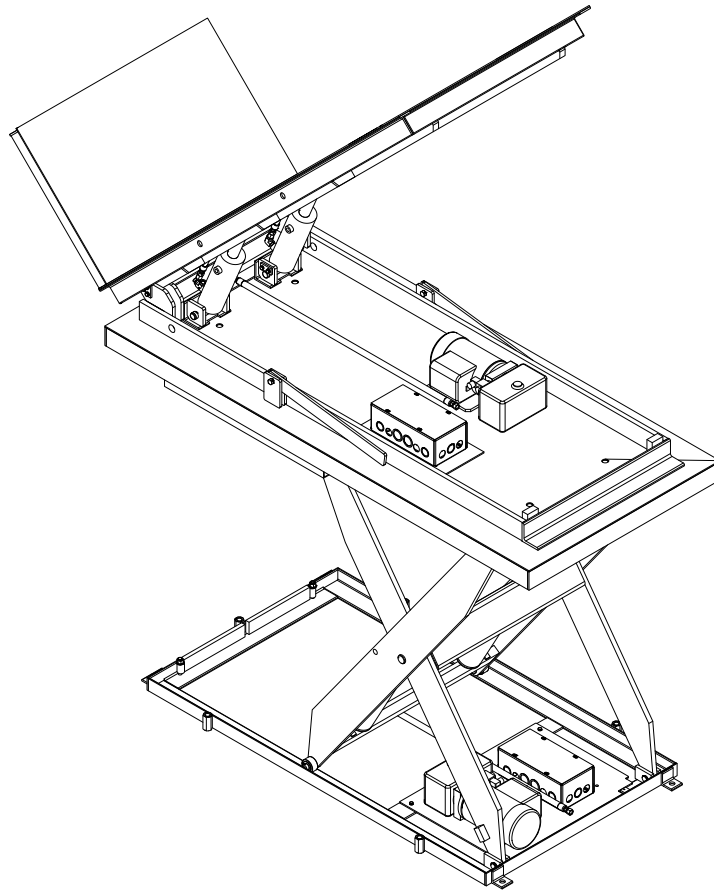


OWNER'S MANUAL

IN-PLANT WIDE BASE LIFT TILT TABLE MODEL: LFTWBETT



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[®]

Table of Contents

| | | |
|-------------|---|-----------|
| 1.0 | ABOUT THE WIDE BASE LIFT TILT TABLE | 5 |
| 1.1 | OWNER'S PURCHASE RECORD | 5 |
| 2.0 | INTRODUCTION | 6 |
| 2.1 | WARRANTY INFORMATION | 6 |
| 2.2 | EXCLUSION OF LIABILITY | 6 |
| 2.3 | MANUFACTURER'S NOTE | 7 |
| 2.4 | OWNER'S RESPONSIBILITY | 7 |
| 3.0 | SAFETY MESSAGE COLOR IDENTIFICATION | 8 |
| 3.1 | OPERATIONAL SAFETY WARNINGS | 8 |
| 4.0 | LOCKOUT / TAGOUT PROCEDURE AND RULES | 10 |
| 4.1 | ELECTROSTATIC SENSITIVE DEVICE PROTECTION POLICY | 11 |
| 5.0 | CONTROL STATION OPERATION | 12 |
| 5.1 | PUSH BUTTON CONTROLS | 12 |
| 6.0 | WIDE BASE LIFT TILT TABLE MAINTENANCE STRUTS | 13 |
| 6.1 | ENGAGING THE LIFT TABLE MAINTENANCE STRUTS | 13 |
| 6.2 | DISENGAGING THE LIFT TABLE MAINTENANCE STRUTS | 14 |
| 6.3 | RAISING TILT TABLE TO DEPLOY MAINTENANCE STRUTS | 15 |
| 6.4 | LOWER TILT TABLE AFTER REMOVING MAINTENANCE STRUTS | 16 |
| 7.0 | MAINTENANCE | 18 |
| 7.1 | PLANNED MAINTENANCE PROGRAM (PMP) | 18 |
| 7.2 | OPERATOR DAILY INSPECTION | 18 |
| 7.3 | ROUTINE SERVICING AND MAINTENANCE | 18 |
| 7.4 | PLANNED MAINTENANCE PROGRAM INTERVALS | 18 |
| 7.5 | MAINTENANCE SEQUENCE | 18 |
| 7.6 | CHECKING ROLLERS / BEARINGS | 19 |
| 7.7 | DAILY MAINTENANCE PROCEDURES (DMP) CHECKLIST | 20 |
| 7.8 | LUBRICATION POINTS AND POWERPACK RESERVOIR LEVEL | 22 |
| 8.0 | OPERATING INSTRUCTIONS | 24 |
| 8.1 | LOAD TRANSFER | 24 |
| 8.2 | RAISING OR LOWERING WIDE BASE LIFT TILT TABLE | 24 |
| 9.0 | RECOMMENDED PARTS | 25 |
| 9.1 | STANDARD OPERATIONAL COMPONENTS | 25 |
| 9.2 | OPTIONAL SUPPORT COMPONENTS | 26 |
| 9.3 | LIFT TABLE ROLLING END | 27 |
| 9.4 | LIFT TABLE FIXED END | 27 |
| 9.5 | LIFT TABLE FRAME AND COMPONENTS | 28 |
| 9.6 | LIFT TABLE SIDE VIEW | 28 |
| 9.7 | TILT TABLE CYLINDERS | 29 |
| 9.8 | TILT TABLE SURFACE COMPONENTS | 29 |
| 9.9 | TILT TABLE BUSHING AND MAINTENANCE STRUT | 30 |
| 9.10 | ACCORDION SAFETY SKIRT | 30 |
| 10.0 | DECAL IDENTIFICATION AND LOCATION | 31 |
| 11.0 | EQUIPMENT COMPONENT ILLUSTRATIONS | 34 |
| 11.1 | COMPONENTS AS SHIPPED CHECKLIST | 34 |
| 11.2 | WIDE BASE LIFT TILT TABLE MECHANICAL ASSEMBLY | 35 |

| | | |
|-------------|--------------------------------------|-----------|
| 12.0 | POWERPACK PART IDENTIFICATION | 37 |
| 12.1 | HYDRAULIC SCHEMATIC | 38 |
| 13.0 | TROUBLESHOOTING | 39 |
| 14.0 | OPTIONAL EQUIPMENT | 41 |
| 14.1 | SAFETY FEATURES | 41 |

1.0 ABOUT THE WIDE BASE LIFT TILT TABLE

The Blue Giant Wide Base Lift Tilt Table is a high performance system. The Wide Base Lift Tilt Table Series provides load transfer/manipulation options for production facilities. Hydraulic components increase operating efficiency, operator safety, and reduce maintenance requirements.

The Tilt Table and Lift Table functions have independent hydraulic lifts via facility-integrated 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.

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

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.

| |
|---|
| NOTICE |
| See "10.0 DECAL IDENTIFICATION AND LOCATION" on page 31 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 Wide Base Lift 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 Wide Base Lift 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 MH29.1 and 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



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



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.

For more information about Blue Giant Warranty Support, please contact your Blue Giant Dealer. You may also visit 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 Wide Base Lift 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 Wide Base Lift Tilt 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 Wide Base Lift 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 Wide Base Lift 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 Wide Base Lift 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 Wide Base Lift 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 Wide Base Lift Tilt Table equipment and other components. The owner should, therefore, train and instruct operators in the safe use of the In-plant Wide Base Lift 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 Wide Base Lift Tilt Table equipment usage and maintenance requirements.
 - Commissioning instructions
 - Operating instructions
 - Daily maintenance procedures checklist
 - Inspections procedures
 - Recommended spare parts listsUpon receipt of any newly purchased In-plant Wide Base Lift 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 Wide Base Lift 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 18.
4. In-plant Wide Base Lift 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, Wide Base Lift 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 "10.0 DECAL IDENTIFICATION AND LOCATION" on page 31 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 Wide Base Lift 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 Wide Base Lift Tilt Table equipment.
8. If, at the request of the owner, Blue Giant does not supply all or some of the In-plant Wide Base Lift 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 lifting 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.

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


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


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

| |
|---|
| NOTICE |
| 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.

| |
|--|
|  DANGER |
| <ul style="list-style-type: none"> • BEFORE BEGINNING ANY SERVICE PROCEDURES: <ul style="list-style-type: none"> – Disconnect the power and follow all lockout / tagout procedures, as per OSHA requirements. Refer to wiring diagrams. • Never operate a broken or damaged In-plant Wide Base Lift Tilt Table. Repair immediately by a qualified service technician. • All loads must be centered and secured from rolling off the platform. Loose or unbalanced loads are dangerous. • While transferring load, be aware of potential fall risks from Lift Table and Lift Table edges. |

| |
|---|
|  WARNING |
| <ul style="list-style-type: none"> • The In-plant Wide Base Lift Tilt Table hinge is a hazardous pinch point. Do not use fingers or hands to remove foreign materials. • In-plant Wide Base Lift Tilt Table may drop unexpectedly, keep people and objects clear of the area immediately under or near the Wide Base Lift Tilt Table. • Post safety warnings and barricade working area around the In-plant Wide Base Lift Tilt Table and at ground level to reduce unauthorized use of the Wide Base Lift Tilt Table during maintenance/service. • Wide Base Lift Tilt Table operator must be present during all steps of this procedure and keep an unobstructed view of Wide Base Lift Tilt Table to ensure safe operation. Never leave the Wide Base Lift Tilt Table unattended in the raised position. • Never leave loads sitting on the In-Plant Table. • Do not operate the Wide Base Lift 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 Table . • Never attempt to lift or hold the Wide Base Lift Tilt Table out by hand unless instructed by this manual and using caution. Serious personal injury could occur. |

 **CAUTION**

- Only trained personnel should operate or service this equipment.
- Always park the Wide Base Lift Tilt 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 Lift Table 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 all dirt and debris from the Tilt Table hinge.
- 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.

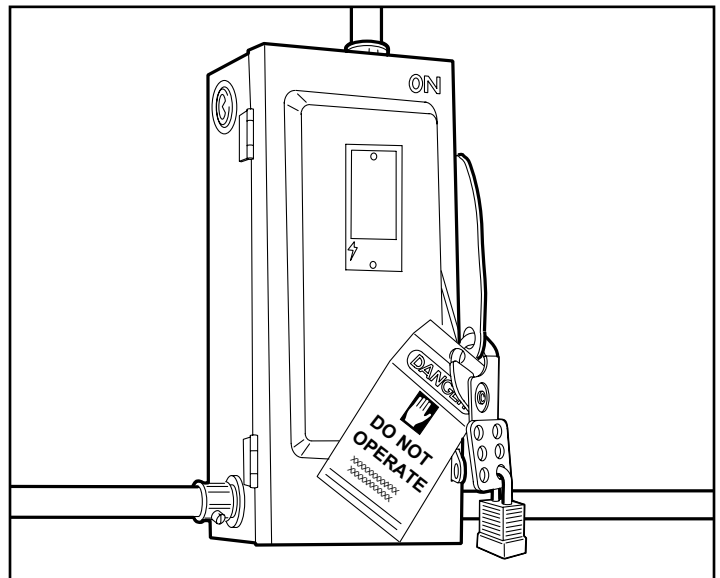
Blue Giant strongly recommends that only OSHA-approved and/or local jurisdiction lockout devices and procedures be utilized.

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 LFTWBETT Lift Tilt Table is part of an assembly line environment, the wiring diagrams will give the correct control setup and use.

5.1 PUSH BUTTON CONTROLS

DANGER

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

WARNING

- Wide Base Lift Tilt Table operator(s) must be present during all steps of this procedure.
- Wide Base Lift Tilt Table operator(s) must keep an unobstructed view of Wide Base Lift Tilt Table, any operation light/horn/bell, and other operators to ensure safe operation.
- Do not exceed (rated/lifting) capacity or load classification of Wide Base Lift Tilt Table as listed on the manufacturer/product nameplate. Capacity includes: 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 31.
- To avoid bodily injury, stand clear of Wide Base Lift Tilt Table while it is moving.

Depending on the In-plant installation, the Wide Base Lift Tilt Table may have hand controls available. Consult the specific installation wiring diagram for these options, if present.

6.0 WIDE BASE LIFT 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 Wide Base Lift Tilt Table.

6.1 ENGAGING THE LIFT TABLE MAINTENANCE STRUTS

The Maintenance Strut is engaged to perform cleaning or visual inspection under the Lift Table.

DANGER

- Failure to properly secure the Lift Table deck prior to working underneath it may result in bodily injury, or death.
- Engage the Maintenance Strut(s). If the struts cannot be successfully engaged, contact your Blue Giant Dealer.

WARNING

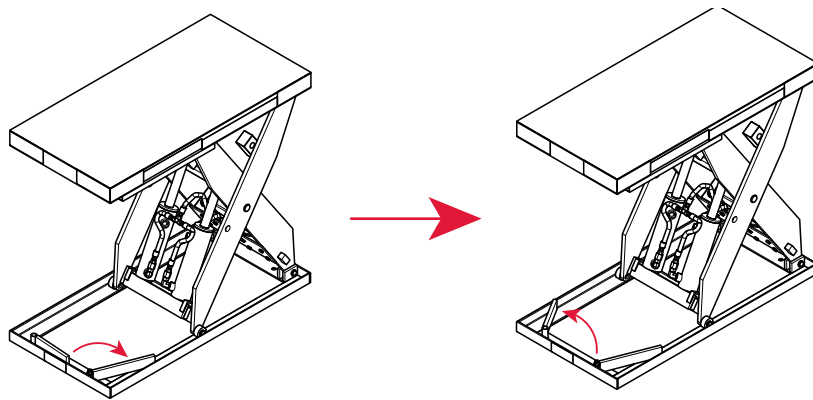
- Post safety warnings and barricade work area at ground level. Notify all affected personnel that work is being performed on the unit and follow proper lock-out procedure. Verify that power to the unit has been completely cut off and cannot be turned back on accidentally, as per OSHA requirement.
- Head protection and other applicable PPE is recommended when working under or around the raised deck.
- Use Maintenance Struts when working under the Wide Base Lift Tilt Table. (i.e. more than cleaning or visually inspecting)
- Do not stand in the pathway of the Wide Base Lift Tilt Table during the disengagement process in case the Wide Base Lift 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. Press and hold the **DOWN** button to lower the Lift Table to the lowest height position.
2. Clear any load or debris on the Lift Table.
3. When the area around the Lift Table is clear of personnel, equipment, and materials, press and hold the **UP** push button to raise the Lift 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. Tilt Table removed for clarity.



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

6.2 DISENGAGING THE LIFT TABLE MAINTENANCE STRUTS

The Maintenance Strut is disengaged after a cleaning or visual inspection is completed under the Lift Table.

DANGER

- Failure to properly secure the Lift Table deck prior to working underneath it may result in bodily injury, or death.
- Engage the Maintenance Strut(s). If the struts cannot be successfully engaged, contact your Blue Giant Dealer.

WARNING

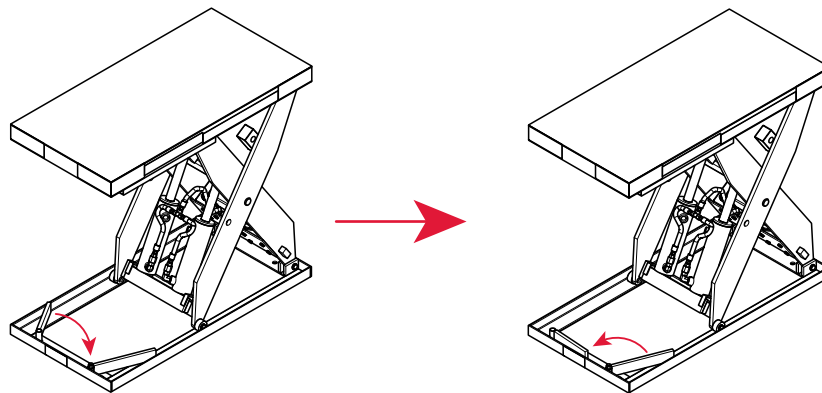
- Post safety warnings and barricade work area at ground level. Notify all affected personnel that work is being performed on the unit and follow proper lock-out procedure. Verify that power to the unit has been completely cut off and cannot be turned back on accidentally, as per OSHA requirement.
-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



5. Press and hold the **DOWN** button to lower the Lift Table to ground or lowest height position then release the button.
6. Test cycle the Lift Table to verify normal function.
7. If Wide Base Lift Tilt Table functions normally then return to service.

6.3 RAISING TILT TABLE TO DEPLOY MAINTENANCE STRUTS

If access to the space under the Tilt Table is required then deploy the Maintenance Struts before placing any body part near or under these areas.

DANGER

- Failure to properly secure the Tilt Table deck prior to working underneath it may result in bodily injury, or death.
- Engage the Maintenance Strut(s). If the struts cannot be successfully engaged, contact your Blue Giant Dealer.

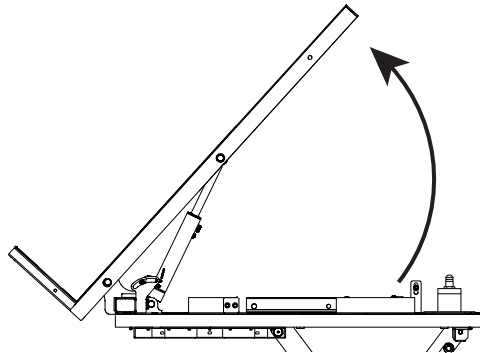
WARNING

- 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 Wide Base Lift Tilt Table. (i.e. more than cleaning or visually inspecting)
- Do not stand in the pathway of the Wide Base Lift Tilt Table during the disengagement process in case the Wide Base Lift Tilt Table falls unexpectedly.

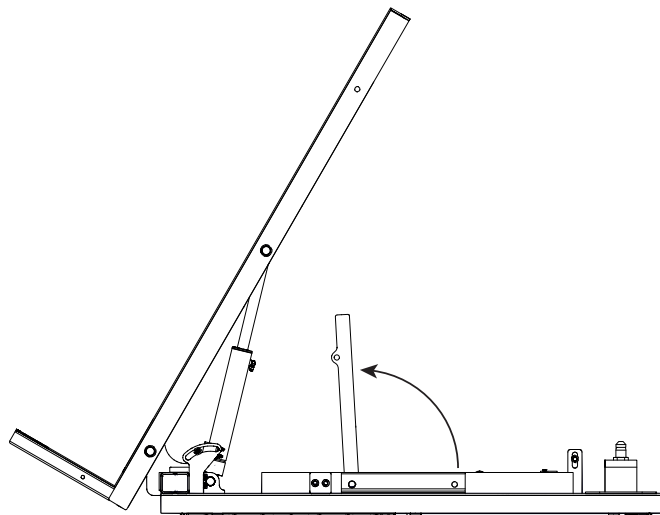
CAUTION

- 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.

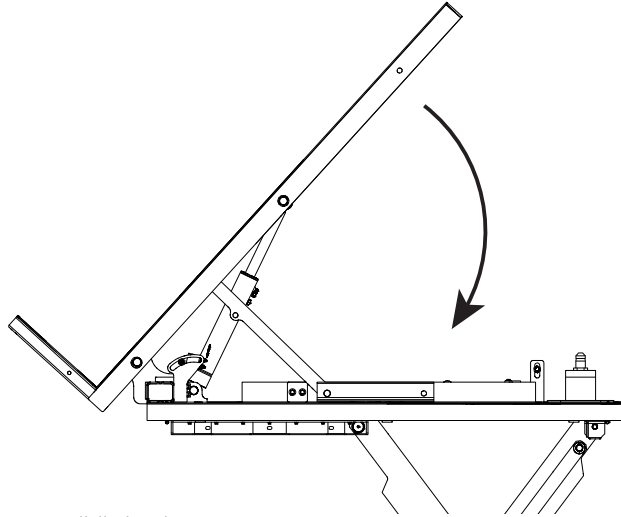
1. Raise the Tilt Table to a height sufficient to deploy the Maintenance Struts.



2. Examine the Maintenance Struts for damage or if it is missing. Contact your Blue Giant Dealer for service or repair, as required.
3. Deploy the Maintenance Struts.



- Lower Tilt Table to engage Maintenance Struts.



- Verify that the Maintenance Struts are solidly in place.

6.4 LOWER TILT TABLE AFTER REMOVING MAINTENANCE STRUTS

The Maintenance Strut is 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 Strut(s). If the struts cannot be successfully engaged, contact your Blue Giant Dealer.

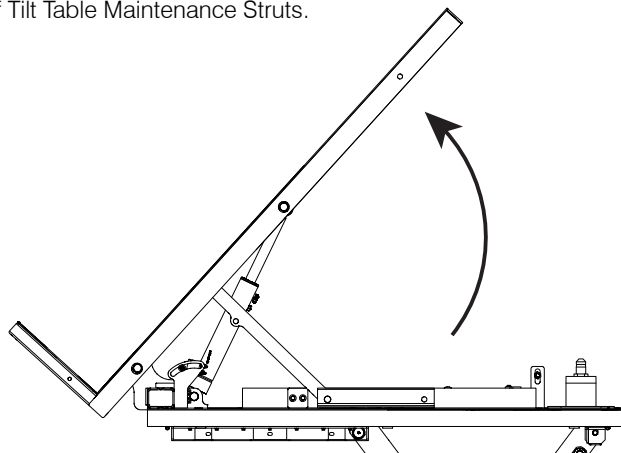
WARNING

- 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 Wide Base Lift Tilt Table. (i.e. more than cleaning or visually inspecting)
- Do not stand in the pathway of the Wide Base Lift Tilt Table during the disengagement process in case the Wide Base Lift Tilt Table falls unexpectedly.

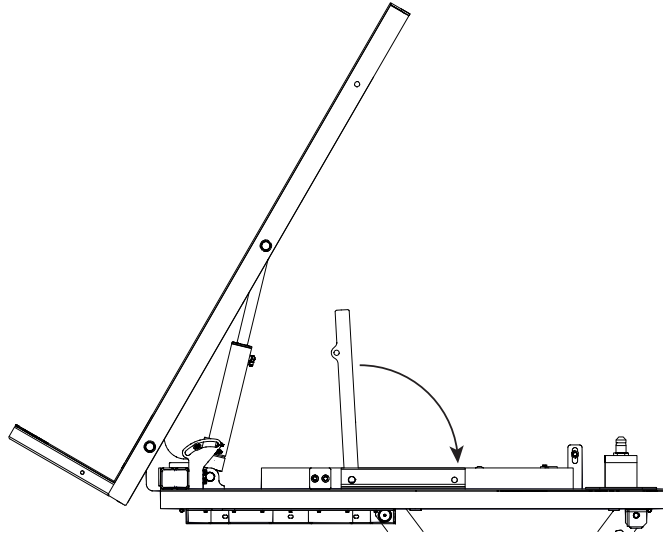
CAUTION

- 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.

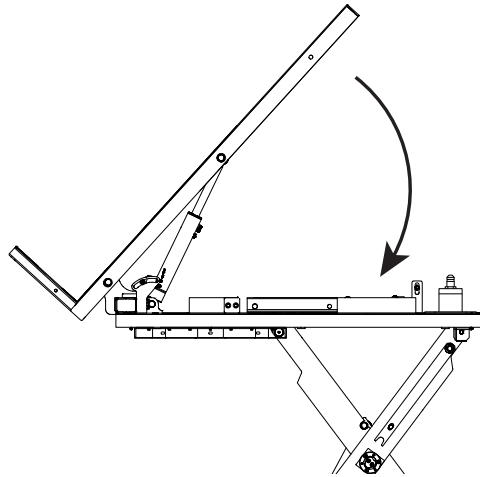
1. Examine the Maintenance Struts for damage or if any are missing. Contact your Blue Giant Dealer for service or repair, as required.
2. When all work is completed and the area around the Tilt Table is cleared, an authorized person shall inform all affected personnel before removing the lock out and tag out from the electrical connections to the hydraulic Powerpack.
3. Raise the Tilt Table until clear of Tilt Table Maintenance Struts.



4. Remove Tilt Table Maintenance Struts.



5. Fully lower the Tilt Table.



6. Test cycle the Tilt Table to verify normal function.
7. If Wide Base Lift Tilt Table functions normally then return to service.

7.0 MAINTENANCE

Develop a planned or scheduled maintenance plan to keep the Wide Base Lift Tilt Table in good operating order.

DANGER

- Failure to properly secure the Wide Base Lift Tilt Table deck prior to working underneath it may result in bodily injury, or death.
- Engage the Maintenance Struts before working. If both 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 Wide Base Lift 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 Wide Base Lift 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 Wide Base Lift Tilt Table maintenance requirements.

7.2 OPERATOR DAILY INSPECTION

The Wide Base Lift 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 "7.1 PLANNED MAINTENANCE PROGRAM (PMP)" on page 18.

7.3 ROUTINE SERVICING AND MAINTENANCE

Regular maintenance and care of the Wide Base Lift Tilt Table is very important for operator safety, operation efficiency, and cost. A faulty Wide Base Lift 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 Wide Base Lift Tilt Table in good operating condition by following the recommended schedule of maintenance. Failure to properly maintain or operate the Wide Base Lift Tilt Table within its rated load classification can void the manufacturer warranty.

7.4 PLANNED MAINTENANCE PROGRAM INTERVALS

Arrange for a qualified Wide Base Lift Tilt Table repair technician to perform regularly scheduled planned maintenance on your Wide Base Lift 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 Wide Base Lift Tilt Table.

1. Cleaning, including under Wide Base Lift Tilt Table, beside a wall, and/or in pit area (if applicable).
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 CHECKING ROLLERS / BEARINGS

Each set of rollers and bearings needs to be inspected. This procedure requires at least two persons (one service technician plus one other person) to perform and a 5 foot crowbar.

DANGER

- Failure to properly secure the Lift Table prior to working underneath it may result in bodily injury, or death.
- Engage the Maintenance Struts before working. If both 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. 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 Wide Base Lift 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.

1. Without a load on the Wide Base Lift Tilt Table, raise the Lift Table to sufficient height to deploy the Maintenance Struts.
2. Deploy the Maintenance Struts. See “6.1 ENGAGING THE MAINTENANCE STRUTS” on page 13.
3. With the Lift Table secure, use the 5 foot crowbar to manually pry the lower cross beam nearest to the lower roller and bearings.
4. Inspect the lower rollers / bearings and verify that it spins freely and smoothly. If not, replace the rollers / bearings as required.
5. Lower the rollers / bearings on to the lower frame.
6. When the lower frame inspection is complete. Follow the procedures to disengage the Maintenance Struts. See “6.2 DISENGAGING THE MAINTENANCE STRUTS” on page 14.
7. Lower the Lift Table to the fully stored position.
8. Use a hoist and sufficient anchors (Consult local jurisdiction for safe hoisting requirements), hoist the Lift Table to permit enough space to access the upper rollers and bearings.
9. If necessary, use the 5 foot crowbar to manually pry up the lower cross beam nearest to the roller bearing to be inspected.
10. Inspect the upper rollers / bearings and verify that it spins freely and smoothly. If not, replace the rollers / bearings as required.
11. After inspection, lower the Lift Table and remove any hoisting equipment or anchors.
12. Test the Wide Base Lift Tilt Table for five (5) cycles to verify full function.
13. If successful then return Wide Base Lift Tilt Table to service. If unsuccessful, contact Blue Giant Support.



BLUE GIANT EQUIPMENT CORPORATION

DEALER: _____

PLANNED MAINTENANCE PROGRAM - PMP CHECKLIST

Wide Base Lift Tilt Table

| | | | | |
|-------------------|--------------------------|----------------------|---------------|------------|
| Customer: | | SWO# | | |
| Location: | | Date: | | |
| Contact: | Telephone: | Inspected By: | | |
| Signature: | Model / Serial #: | Voltage: | Phase: | HP: |

WARNING

| NOTE TO TECHNICIAN: ALL ITEMS ON LIST MUST BE VERIFIED AND CHECKED. ITEMS WITH AN * REQUIRE LUBRICATION. | Position # | | Position # | | Position # | | Position # | | Position # | |
|---|------------|---|------------|---|------------|---|------------|---|------------|---|
| | | | | | | | | | | |
| | ✓ | | ✓ | | ✓ | | ✓ | | ✓ | |
| Barricade area | | | | | | | | | | |
| Disconnect power per OSHA requirements | | | | | | | | | | |
| Clean debris from in and around Wide Base Lift Tilt Table | | | | | | | | | | |
| Mark the following with one of the following: ✓ = GOOD ✗ = COMMENTS / REQUIRES REPAIR | Position # | | Position # | | Position # | | Position # | | Position # | |
| | ✓ | ✗ | ✓ | ✗ | ✓ | ✗ | ✓ | ✗ | ✓ | ✗ |
| | | | | | | | | | | |
| Pit or mount area | | | | | | | | | | |
| Deck hinges | | | | | | | | | | |
| Wire harness / cables | | | | | | | | | | |
| Hydraulic hose assembly | | | | | | | | | | |
| Cylinder | | | | | | | | | | |
| Structural damage | | | | | | | | | | |
| Electrical connectors | | | | | | | | | | |
| Lowering speed flow control (If present) | | | | | | | | | | |
| Leg rollers | | | | | | | | | | |
| Scissor pin bushings * | | | | | | | | | | |
| Lift Table Maintenance Stand | | | | | | | | | | |
| Tilt Table Maintenance Stand | | | | | | | | | | |
| Check that operational placard present and legible | | | | | | | | | | |
| Complete operating cycle for proper sequence. | | | | | | | | | | |

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

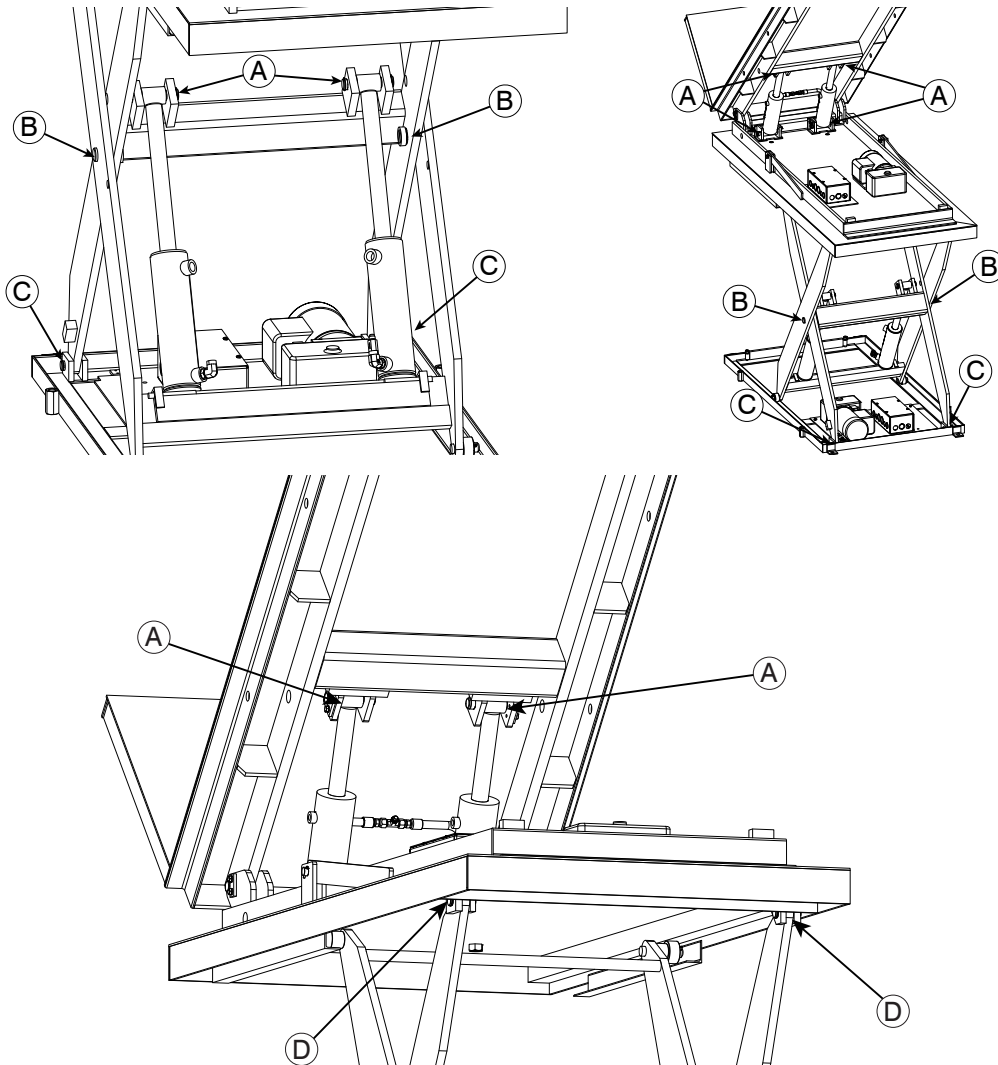
7.8 LUBRICATION POINTS AND POWERPACK RESERVOIR LEVEL

Only trained technicians should lubricate the Wide Base Lift Tilt Table and 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 Wide Base Lift 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.

Apply lubricate at these points and on the matching pivot points on other side.



| Callouts | Description |
|----------|-----------------------|
| A | Lift Cylinder Pivots |
| B | Center Scissor Pivots |
| C | Frame / Leg Pivots |
| D | Deck / Leg Pivots |

1. Inspect and top up Powerpack reservoir, while Wide Base Lift Tilt Table is in the lowered position.
2. Without a load on the Wide Base Lift Tilt Table, raise the Wide Base Lift Tilt Table to sufficient height to deploy the Maintenance Struts.
3. Deploy the Lift Table Maintenance Struts. See “6.2 DISENGAGING THE MAINTENANCE STRUTS” on page 14.
4. Deploy the tilt table Maintenance Struts. See “6.3 RAISING TO DEPLOY MAINTENANCE STRUTS” on page 15.
5. Apply lubrication at the points shown in the illustration.
NOTE: It is recommended to use an oil can with an extended nozzle.
6. When the inspection is complete. Follow the procedures to disengage the Tilt Table Maintenance Struts, and the Lift Table Maintenance Struts. See “6.2 DISENGAGING THE MAINTENANCE STRUTS” on page 14 and “6.4 LOWER AFTER REMOVING MAINTENANCE STRUTS” on page 16.

8.0 OPERATING INSTRUCTIONS

Depending on the In-plant installation, the Wide Base Lift 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 Wide Base Lift Tilt Table, the cargo weight distribution should **NEVER** exceed the maximum value on the weight rating decal. The Wide Base Lift Tilt Table weight rating decal lists the maximum load values for the Wide Base Lift Tilt Table.

8.2 RAISING OR LOWERING WIDE BASE LIFT TILT TABLE

The following Danger and Warning list apply to any Wide Base Lift Tilt Table.

DANGER

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

WARNING

- Wide Base Lift Tilt Table operator(s) must be present during all steps of this procedure.
- Wide Base Lift Tilt Table operator(s) must keep an unobstructed view of Wide Base Lift Tilt Table, any operation light/horn/bell, and other operators to ensure safe operation.
- Do not exceed (rated/Wide Base Lift Tilt Table) capacity or load classification of Wide Base Lift 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 31.
- To avoid bodily injury, stand clear of Wide Base Lift Tilt Table while it is moving.

Read and understand these instructions and safety rules before operating Wide Base Lift Tilt Table:

- Before using Wide Base Lift Tilt Table, inspect it for proper operation and condition. If any unsafe condition exists, remove unit from service until repairs are made.
- Before using Wide Base Lift Tilt Table, inspect any/all safety devices to verify that they are in place and functioning properly.
- Prior to placing a load on Wide Base Lift 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 Wide Base Lift Tilt Table capacity is the maximum uniformly distributed load permitted for the unit.

9.0 RECOMMENDED PARTS

9.1 STANDARD OPERATIONAL COMPONENTS

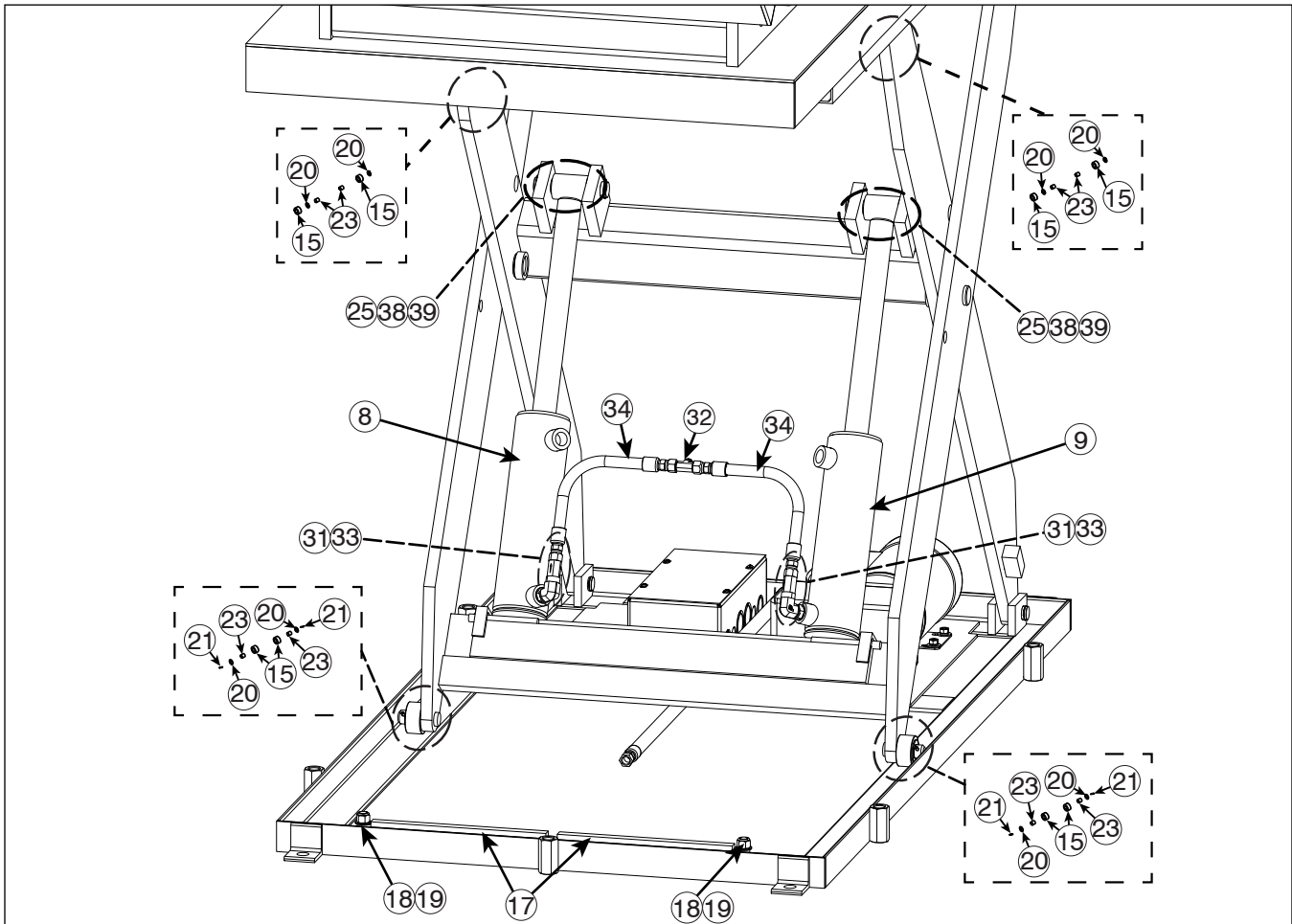
| WIDE BASE LIFT TILT TABLE STANDARD OPERATIONAL COMPONENTS | | | |
|---|-----|-------------------|--|
| ITEM | QTY | PART NO. | DESCRIPTION |
| 4 | 2 | 071-0591 | CYLINDER, 3inB0REx6inSTROKE, DA |
| 7 | 2 | 2022723 | PIN, 1" OD X 3" L SUPERIOR SHAFTING |
| 8 | 2 | 071-0529-01 | CYLINDER, 3inB0RE X 9in STROKE SIDE B |
| 9 | 2 | 071-0529-02 | CYLINDER, 3inB0RE X 9in STROKE SIDE D |
| 11 | 2 | 071-0126-115V-1PH | POWER PACK, 1 HP, 11 SV, 1 PH |
| 12 | 2 | 2022722 | PIN, 1" OD X 6" L SUPERIOR SHAFTING |
| 13 | 2 | 2022724 | PIN, 1" OD X 4-1/2" L SUPERIOR SHAFTING |
| 14 | 2 | 071-0102 | LEG BLOCK PIN, 0.87ODX2-3/8L |
| 15 | 4 | 2018971 | ASSY,WHEEL AND BUSHING,2"DIA,1"HOLE |
| 16 | 4 | 071-0072 | RETAINING RING,EXTERNAL,7/8" |
| 18 | 2 | 012-238 | WASHER,SPACER,1/2X1X5/64,NP |
| 19 | 2 | 011-554 | NUT,HEX,NYLON,LOCK,1/2-13,PREFERRED |
| 20 | 4 | 012-714 | WASHER,STEEL,Zn,0.89ID X 1.5OD X 0.063THK |
| 21 | 4 | 013-127 | PIN,SPRING,SLOTTED,3/16X1 1/2,NP |
| 22 | 4 | 071-0019 | BUSHING,0.876X1.003X0.750 |
| 23 | 4 | 071-0020 | BUSHING,0.876X1.003X1 |
| 24 | 2 | 013-066 | PIN,SPRING,SLOTTED,5/32X1 1/4,PREFERRED |
| 25 | 16 | 018-061 | BUSHING FIBERGLIDE 1"ID X 1-1/8"OD X 1"L |
| 27 | 12 | 012-200 | WASHER,LOCK,SPG,REGULAR,5/16,PREFERRED |
| 28 | 20 | 010-037 | SCREW,CAP,HEX HD,5/16-18x0.75X0.75,-,PREFERRED |
| 30 | 2 | 033-546 | VELOCITY FUSE,5GPM,06MORB SAE - 06M JIC |
| 31 | 2 | 033-661 | VELOCITY FUSE,4GPM,06MP-06MJIC (301-03) |
| 39 | 2 | 071-0098 | CYLINDER PIN,1 ODX4-3/4L |
| 40 | 2 | 010-072N | SCREW,CAP,HEX HD,1/4-20x0.5X0.5,-,NP |
| 41 | 2 | 012-202 | WASHER,LOCK,SPG,REGULAR,1/4,PREFERRED |

9.2 OPTIONAL SUPPORT COMPONENTS

| WIDE BASE LIFT TILT TABLE OPTIONAL COMPONENTS | | | |
|---|-----|------------|---|
| ITEM | QTY | PART NO. | DESCRIPTION |
| 5 | 2 | 2029613-03 | TILT MAINTENANCE STAND, 22inL |
| 6 | 2 | 2029615 | MAINTENANCE-STAND PIN, ETT |
| 10 | 2 | BLC11152 | ENCLOSURE CONTROL BOX,6 X 12 X 4 |
| 17 | 2 | 2018461-03 | WLDMNT,MAINT. STRUT,11 1/4" L,FIXED |
| 26 | 6 | 090-212 | PIN RETAINER PLATE |
| 29 | 2 | 034-736 | O-RING BOSS,90 ELBOW,06MSAE - 06FSAE |
| 32 | 2 | 034-551 | FITTING,RIGHT-ANGLE TEE ADAPTERS,JICM X JICM X JICM,3/8 X 3/8 X 3/8 |
| 33 | 2 | 071-0500 | FITTING,ELBOW 90 DEG,ORBM X NPTF,1/2 X 3/8 |
| 34 | 4 | 300-5000-5 | HOSES |
| 35 | 2 | 300-5000 | HOSE, #6 HIGH PRESSURE |
| 36 | 8 | 012-211 | WASHER,FLAT,ZN PLD,5/16,PREFERRED |
| 37 | 1 | 071-0065 | FTNG-ELBOW,45DEG,3/8" JIC |
| 38 | 4 | 071-0078 | RR-1 (RR-1 EXTERNAL RETAINING RING) |
| 42 | 4 | 011-502 | NUT,HEX,5/16-18,PREFERRED |

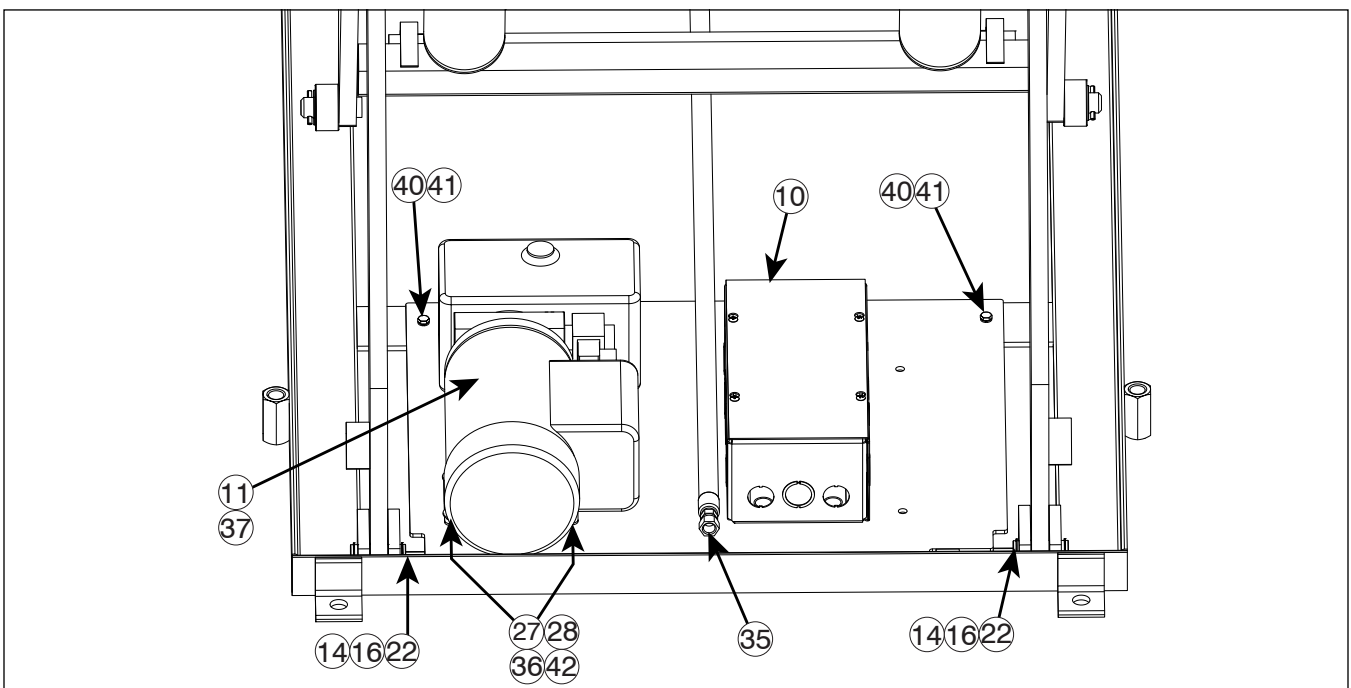
9.3 LIFT TABLE ROLLING END

This diagram displays the Lift Table and the field replaceable parts. Match callouts to item numbers in section 9.1 and 9.2.



9.4 LIFT TABLE FIXED END

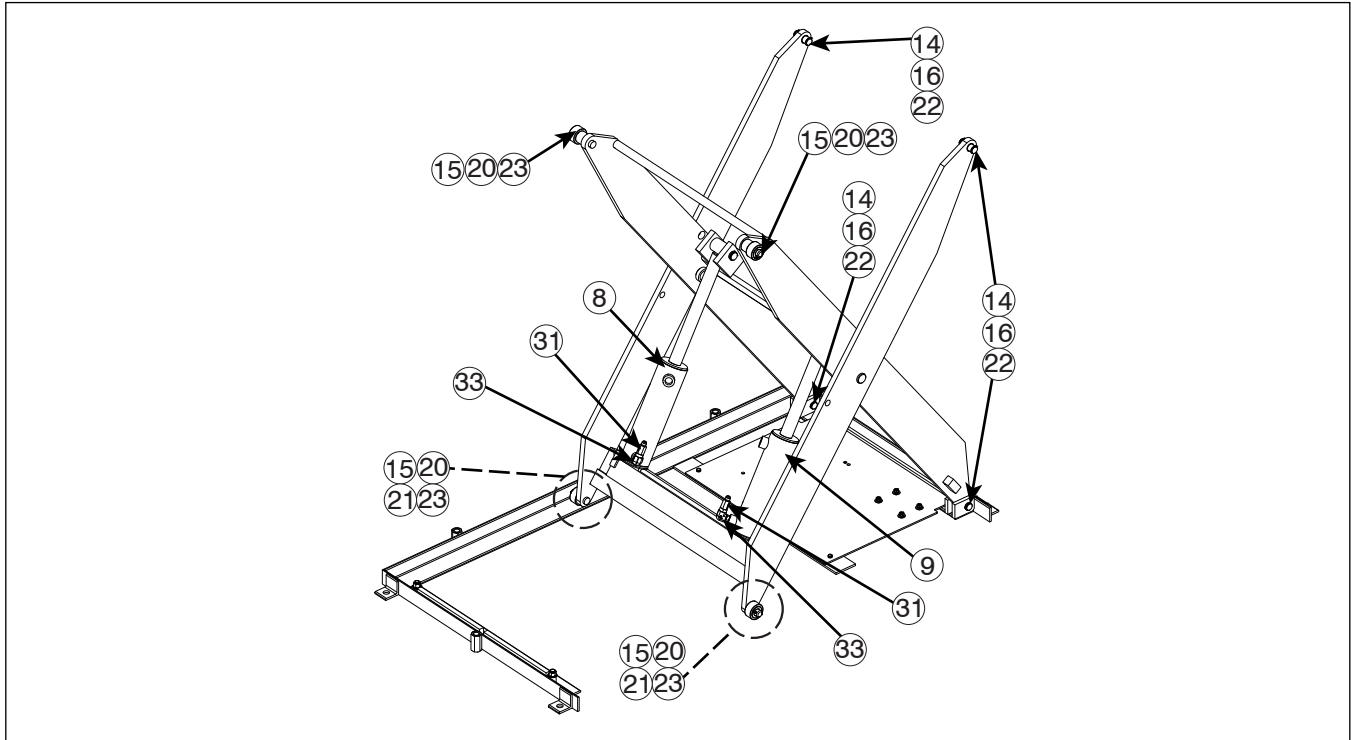
This diagram displays the Lift Table lower frame, hoist parts, and cable pass-through. Match callouts to item numbers in section 9.1 and 9.2.



9.5 LIFT TABLE FRAME AND COMPONENTS

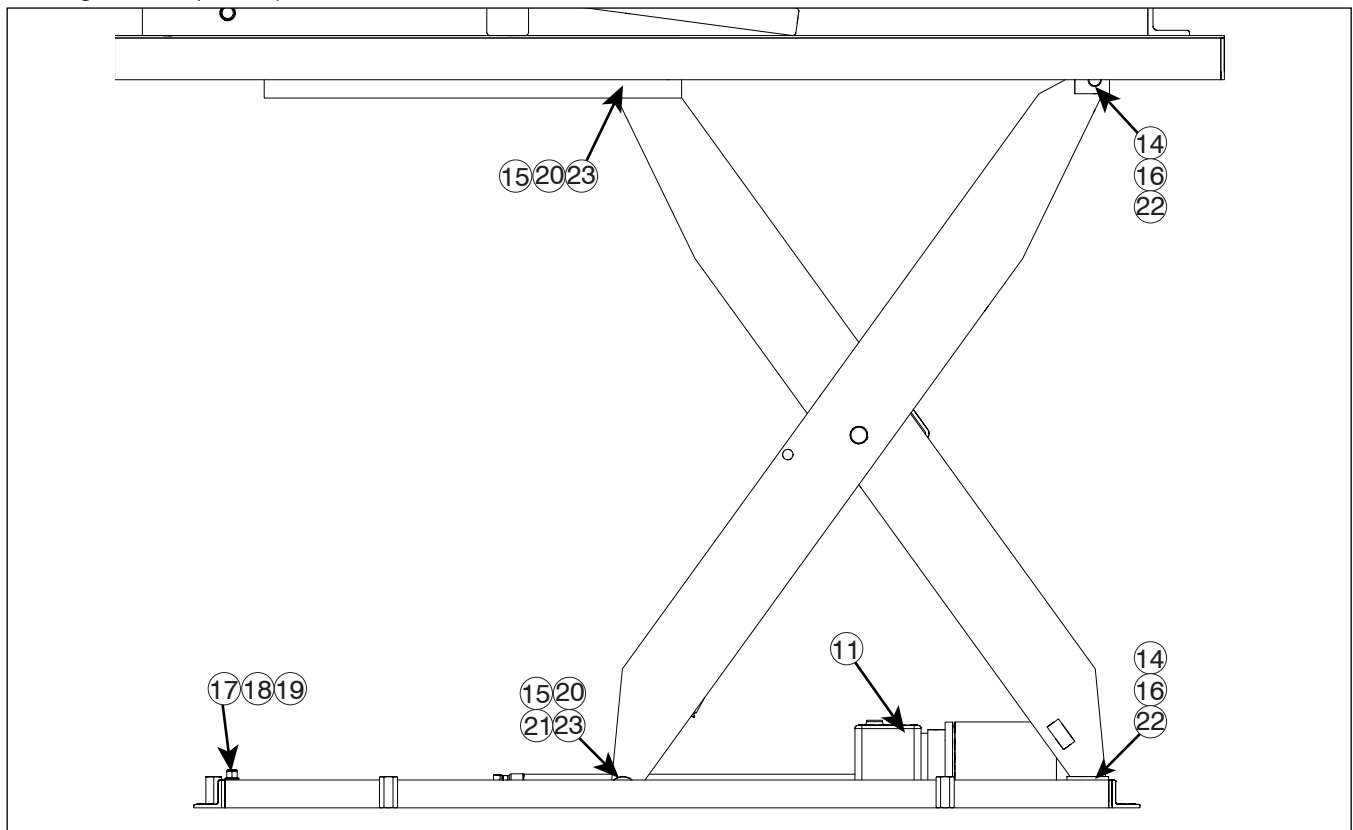
This diagram displays the Lift Table skeleton and the lower frame components. Match callouts to item numbers in section 9.1 and 9.2.

NOTE: Some components removed for clarity.



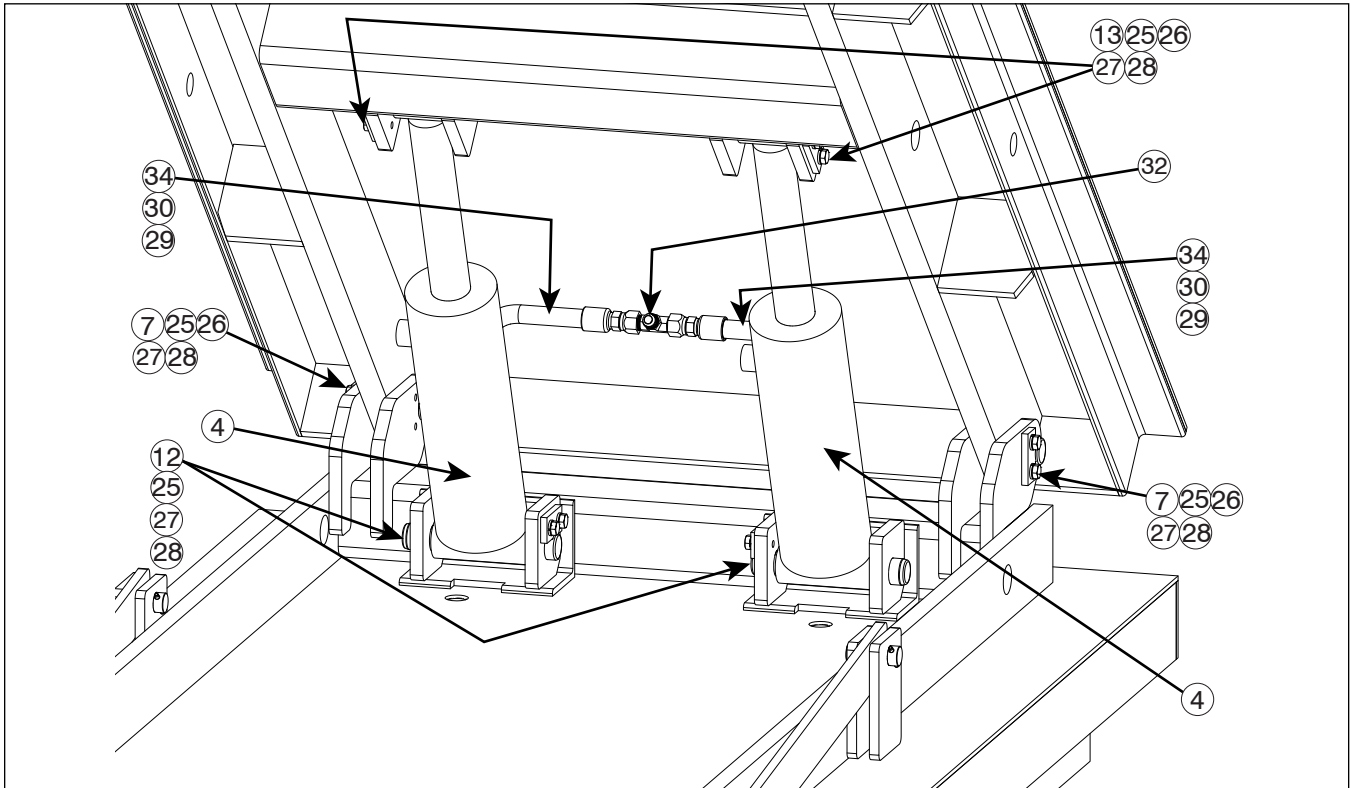
9.6 LIFT TABLE SIDE VIEW

This diagram displays a side view of the Lift Table frame, the maintenance struts, leveling components, and safety accordion skirt anchors (see site diagrams for specifics). Match callouts to item numbers in section 9.1 and 9.2.



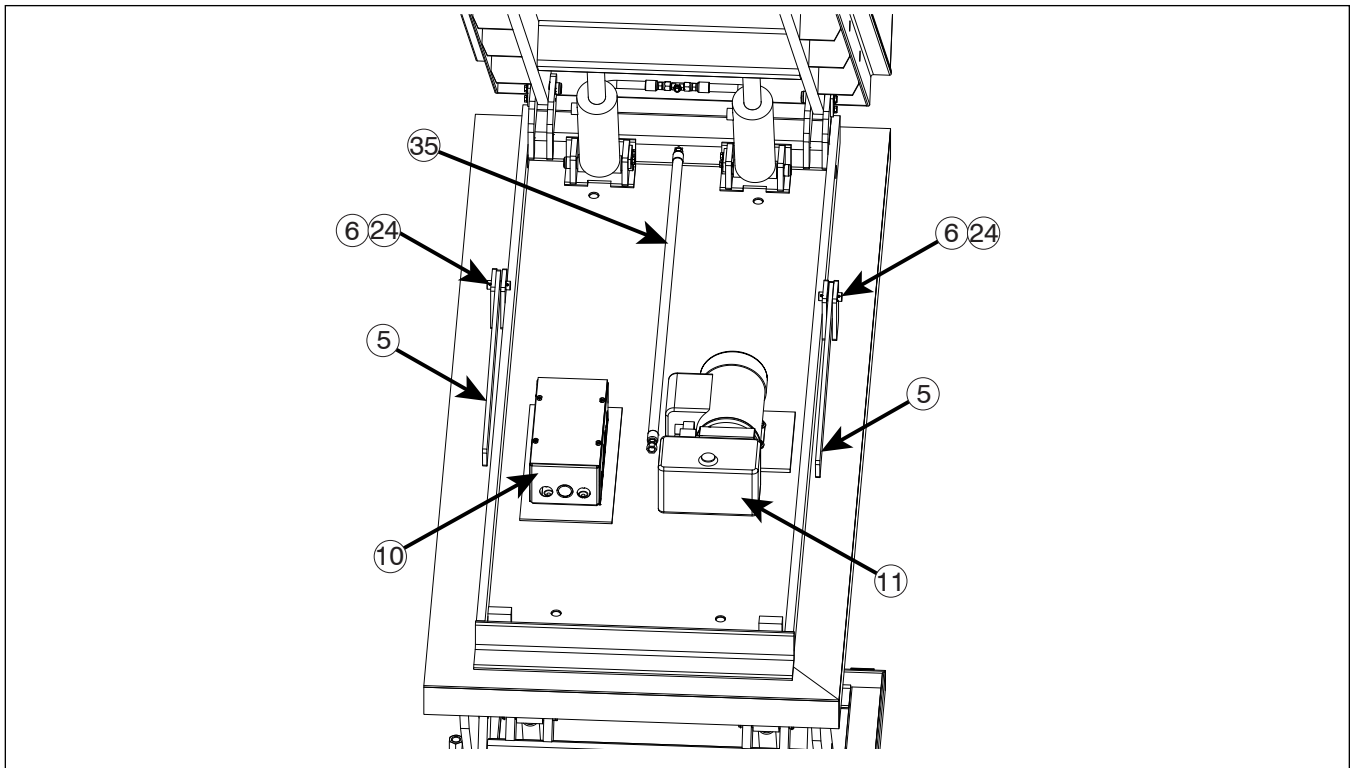
9.7 TILT TABLE CYLINDERS

This diagram displays the tilt table cylinders and pivoting parts. Match callouts to item numbers in section 9.1 and 9.2.



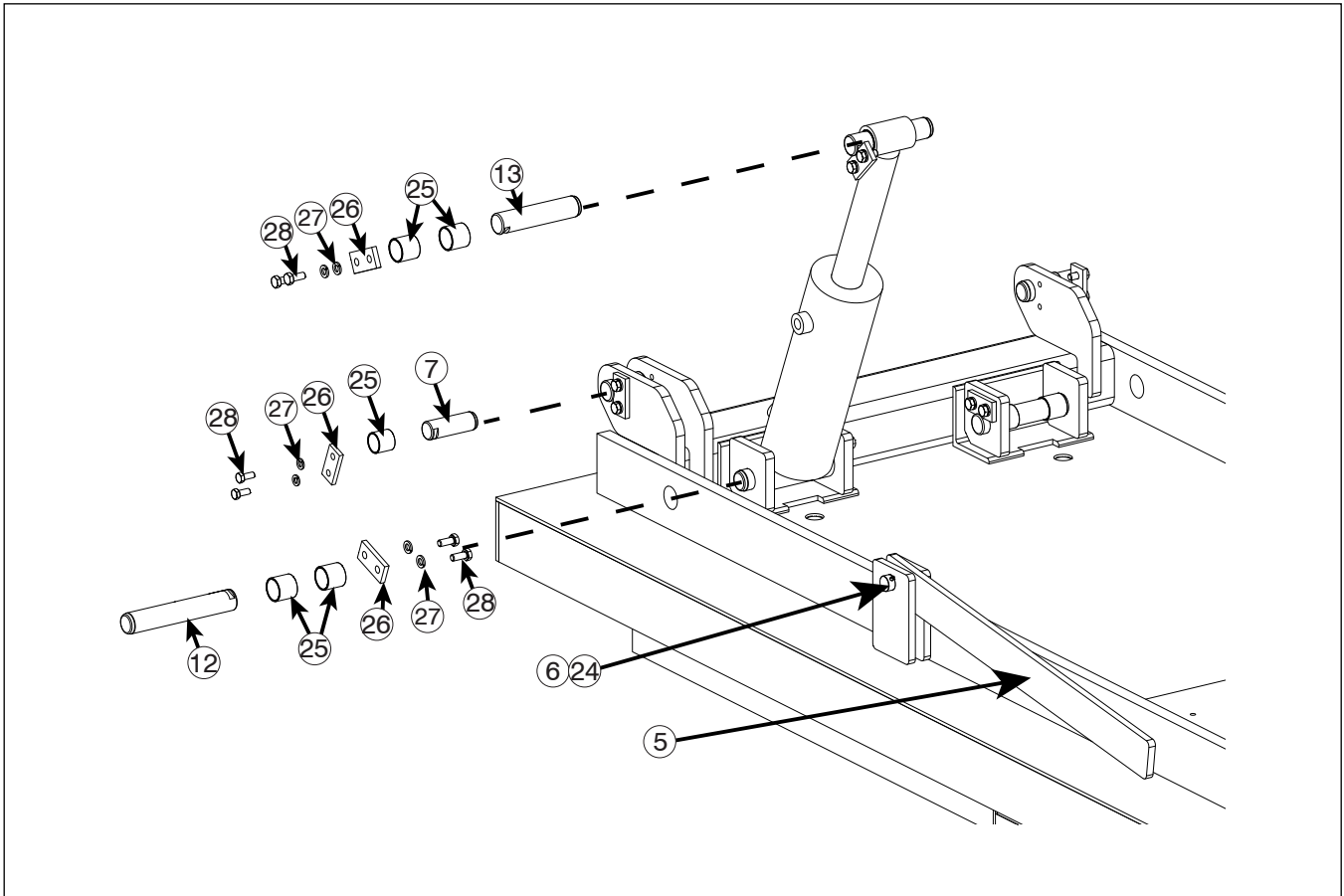
9.8 TILT TABLE SURFACE COMPONENTS

This diagram displays components that are under the tilt table moving surface. Match callouts to item numbers in section 9.1 and 9.2.



9.9 TILT TABLE BUSHING AND MAINTENANCE STRUT

This diagram displays the tilt table bushings and maintenance struts. Match callouts to item numbers in section 9.1 and 9.2.



9.10 ACCORDION SAFETY SKIRT

This diagram displays the accordion safety skirt and where to anchor it on the lower frame.

NOTE: Actual product may not appear exactly as shown. Always refer to site diagrams.



10.0 DECAL IDENTIFICATION AND LOCATION

These labels inform operators and personnel about hazardous areas on and around the Wide Base Lift Tilt Table.



(A)



(B)



(C)



(L)



(M)



(I)



(J)



(K)



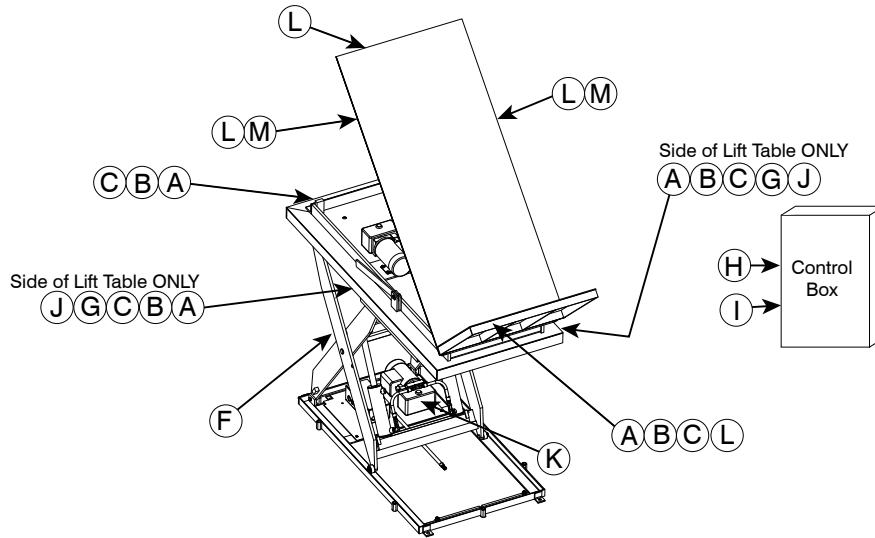
(F)



(G)



(H)



| Callout | Qty | Part No. | Description |
|---------|-----|-------------|---|
| A | 4 | 038-1102 | EF ES Warns personnel to read operating instructions before using the Lift Table and warn of possible bodily injury |
| B | 4 | 038-1101 | EF ES Warns personnel to employ the Maintenance Strut and Service Stand before working on and under the Lift Table |
| C | 4 | 038-010 | Safety Stripe tape to alert personnel of hazardous areas and edges (i.e. toe guards, edges) |
| F | 2 | 038-1106EFS | Nameplate to identify the Wide Base Lift Tilt Table, serial number, and load transfer capacities |
| G | 5 | 038-082 | EF ES Warns personnel to stand clear of Wide Base Lift Tilt Table and the immediate area while it is in operation |
| H | 1 | 114-308 | Wiring diagram for facility hookup (Keep in electrical box) (Sample only shown) |

IN-PLANT LFTWBETT LIFT TILT TABLE — OWNER'S MANUAL

| Callout | Qty | Part No. | Description |
|---------|-----|-------------|--|
| I | 1 | 038-1105EFS | Reminds personnel to lock out the electrical feeds before attempting work on the Wide Base Lift Tilt Table (on exterior of electrical box) |
| J | 2 | 038-1097 | Proposition 65 Cancer and Reproductive Harm Warning - California only |
| K | 1 | 038-1107EFS | Rated dock capacity and electrics (Located on Powerpack) |
| L | 4 | 038-1161E | Warns personnel to stand clear of tilt table and the immediate area while it is in operation |
| M | 2 | 038-1160E | Warns personnel to read operating instructions before using the tilt table and warn of possible bodily injury |

OPERATION PLACARD

The Operation Placard (Part. No. 038-545E) is to be wall mounted near the Wide Base Lift Tilt Table controls. A duplicate is provided on the following page.



WARNING

APPLIES TO BLUE GIANT SCISSOR LIFTS

Do not operate this scissor lift 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 scissor lift decals.

Do NOT go under the scissor lift platform to clean or perform routine maintenance unless the Maintenance Strut and Service Stand are safely and securely engaged.

Prior to using the scissor lift:

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

- *Operate the scissor lift through one complete lift / lower cycle and verify its proper operation. Inspect the scissor lift 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 scissor lift serial nameplate is present and legible.

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

Be aware that lift 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 scissor lift.

Lift operator(s) must be present during all steps of operation.

Lift operator(s) must keep an unobstructed view of lift, any operation light/horn/bell, and other operators to ensure safe operation.

Ensure that all personnel near the scissor lift are aware that it is being operated.

Keep objects, control cables, spills, possible trip hazards, and debris away from around or under the scissor lift platform/lip and its travel path.

If the scissor lift is equipped with a hinged bridge(s), the bridge must overlap the trailer bed by a minimum of 4" (102mm) before use. Do not use the bridge if it is supported solely by the lifting chain.

Hinged lips may drop unexpectedly, keep people and objects clear of the area immediately under or near the lip.

If maintenance or service is required:

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

- *Follow approved lockout procedures.*

- *Do NOT work on or under the lift without properly engaging the lift's maintenance strut. Blue Giant recommends the use of a secondary means (service stand) of securing the scissor lift while performing repairs under the deck.*

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

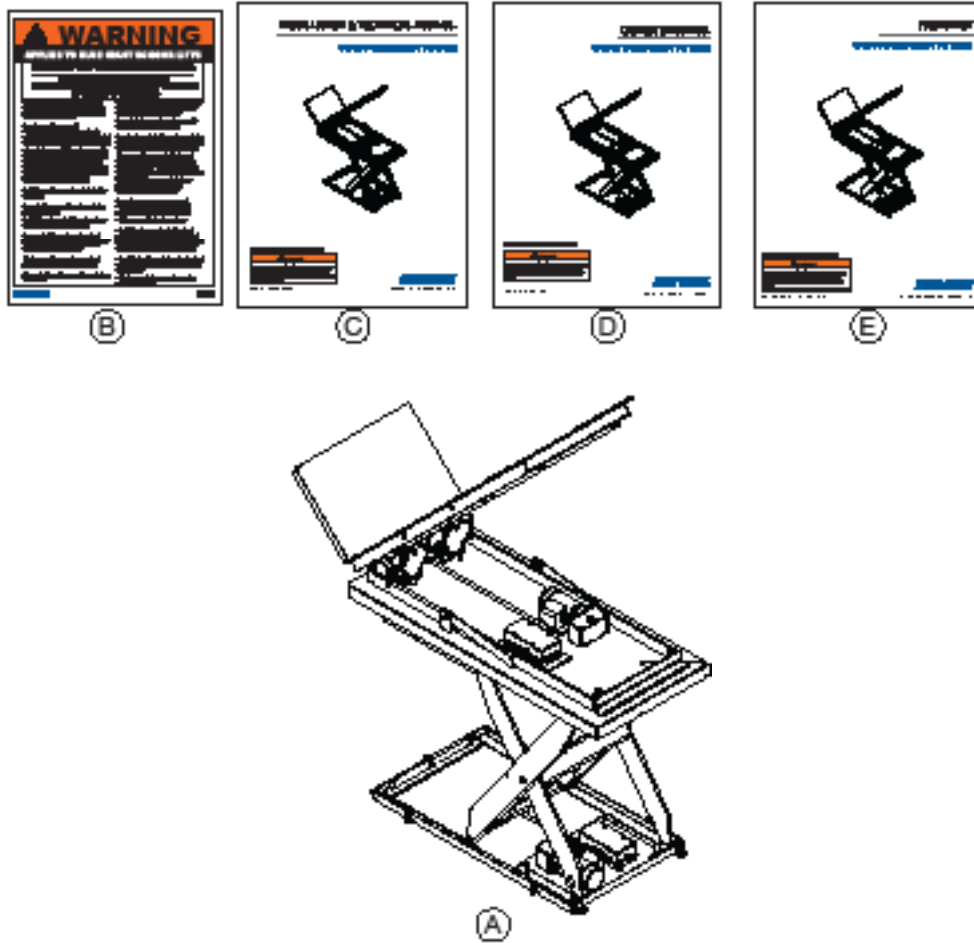
- *Maintain records of repairs and preventive maintenance reports.*

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.

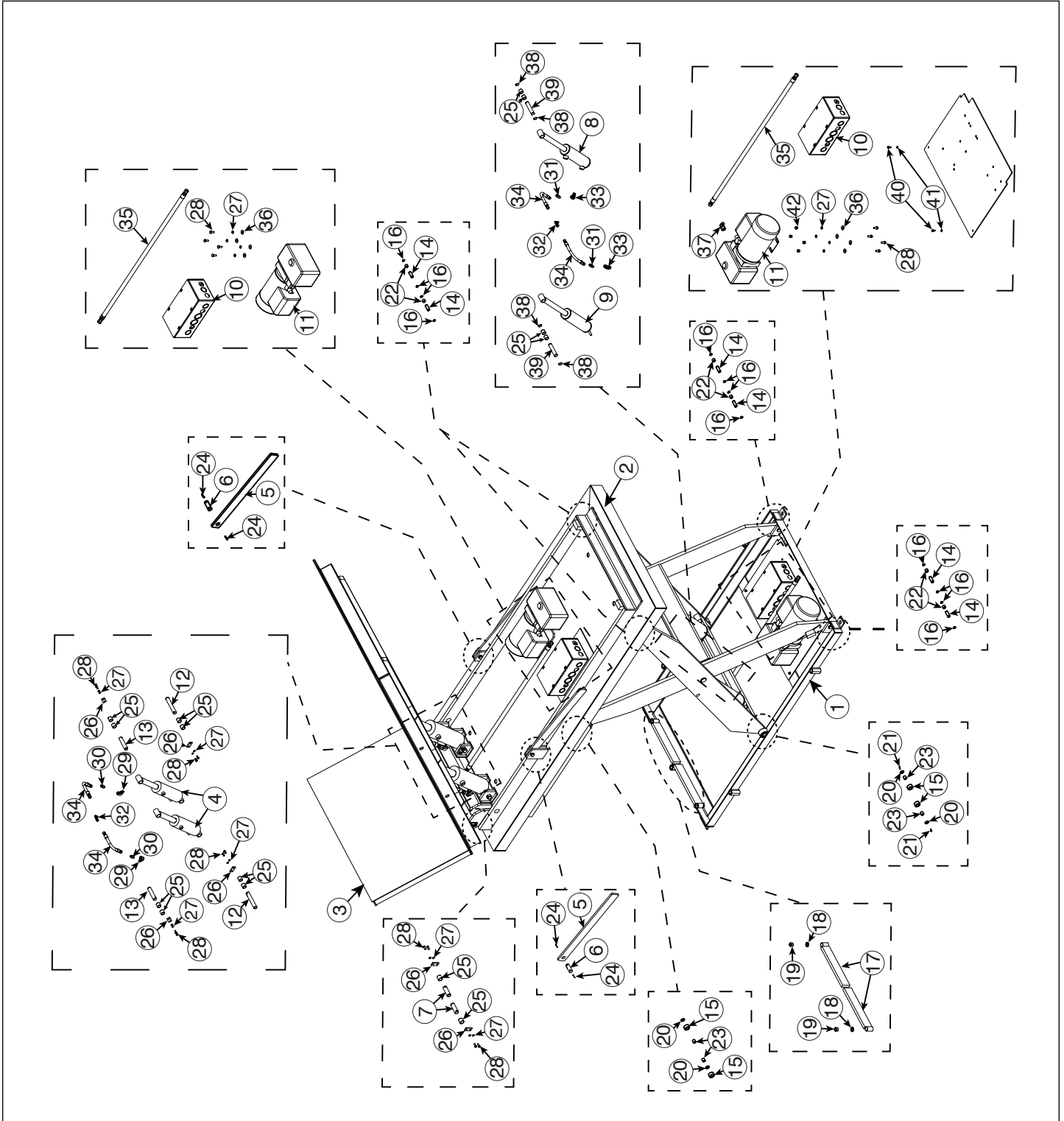


| ✓ | CALLOUT | QTY. | PART NO. | DESCRIPTION | APPROX. WEIGHT | |
|---|---------|------|-----------------|---------------------------|-----------------|---|
| | A | 1 | Model Dependent | Wide Base Lift Tilt Table | Varies by Model | |
| | B | 1 | 038-545E | Operation/Warning Placard | — | — |
| | C | 1 | 038-1261E | Installation Manual | — | — |
| | D | 1 | 038-1261E | Owner's Manual | — | — |
| | E | 1 | 038-1261EPL | Parts List | — | — |

11.2 WIDE BASE LIFT TILT TABLE MECHANICAL ASSEMBLY

This diagram shows a detailed view of the Wide Base Lift Tilt Table assembly.

NOTE: Actual product may not appear exactly as shown.



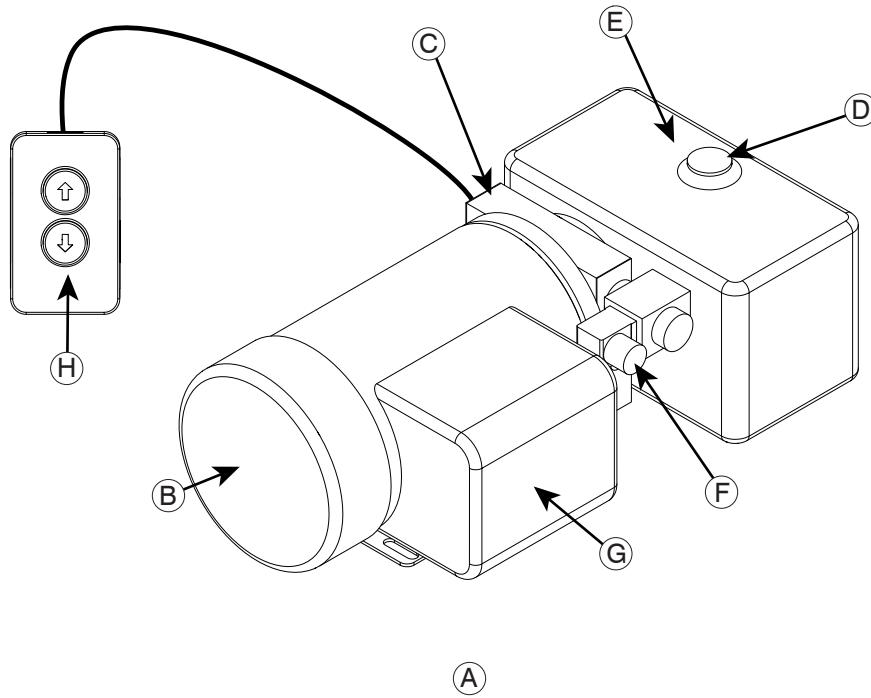
IN-PLANT LFTWBETT LIFT TILT TABLE — OWNER'S MANUAL

| ITEM | QTY | PART NO. | DESCRIPTION | ITEM | QTY | PART NO. | DESCRIPTION |
|------|-----|-------------------|---|------|-----|------------|--|
| 1 | 1 | Varies on model | ASSEMBLY, FRAME & LEG | 25 | 16 | 018-061 | BUSHING FIBERGLIDE 1"ID X 1-1/8"OD X 1"L |
| 2 | 1 | Varies on model | WLDMNT, SUB-DECK, | 26 | 6 | 090-212 | PIN RETAINER PLATE |
| 3 | 1 | Varies on model | WEL0MENT, DECK, ETT | 27 | 12 | 012-200 | WASHER,LOCK,SPG,REGULAR,5/16, PREFERRED |
| 4 | 2 | 071-0591 | CYLINDER, 3inB0REx6inSTROKE, DA | 28 | 20 | 010-037 | SCREW,CAP,HEX HD,5/16-18x0.75X0.75,-, PREFERRED |
| 5 | 2 | 2029613-03 | TILT MAINTENANCE STAND, 22inL | 29 | 2 | 034-736 | O-RING BOSS,90 ELBOW,06MSAE - 06FSAE |
| 6 | 2 | 2029615 | MAINTENANCE-STAND PIN, ETT | 30 | 2 | 033-546 | VELOCITY FUSE,5GPM,06MORB SAE - 06M JIC |
| 7 | 2 | 2022723 | PIN, 1" OD X 3" L SUPERIOR SHAFTING | 31 | 2 | 033-661 | VELOCITY FUSE,4GPM,06MP-06MJIC (301-03) |
| 8 | 2 | 071-0529-01 | CYLINDER, 3inB0RE X 9in STROKE SIDE B | 32 | 2 | 034-551 | FITTING,RIGHT-ANGLE TEE ADAPTERS, JICM X JICM X JICM,3/8 X 3/8 X 3/8 |
| 9 | 2 | 071-0529-02 | CYLINDER, 3inB0RE X 9in STROKE SIDE D | 33 | 2 | 071-0500 | FITTING,ELBOW 90 DEG,ORBM X NPTF,1/2 X 3/8 |
| 10 | 2 | BLC11152 | ENCLOSURE CONTROL BOX,6 X 12 X 4 | 34 | 4 | 300-5000-5 | Hoses |
| 11 | 2 | 071-0126-115V-1PH | POWER PACK, 1 HP, 11 SV, 1 PH | 35 | 2 | 300-5000 | HOSE, #6 HIGH PRESSURE |
| 12 | 2 | 2022722 | PIN, 1" OD X 6" L SUPERIOR SHAFTING | 36 | 8 | 012-211 | WASHER,FLAT,ZN PLD,5/16,PREFERRED |
| 13 | 2 | 2022724 | PIN, 1" OD X 4-1 /2" L SUPERIOR SHAFTING | 37 | 1 | 071-0065 | FTNG-ELBOW,45DEG,3/8" JIC |
| 14 | 2 | 071-0102 | LEG BLOCK PIN, 0.87ODX2-3/8L | 38 | 4 | 071-0078 | RR-1 (RR-1 EXTERNAL RETAINING RING) |
| 15 | 4 | 2018971 | ASSY,WHEEL AND BUSHING,2"DIA,1"HOLE | 39 | 2 | 071-0098 | CYLINDER PIN,1 ODX4-3/4L |
| 16 | 4 | 071-0072 | RETAINING RING,EXTERNAL,7/8" | 40 | 2 | 010-072N | SCREW,CAP,HEX HD,1/4-20x0.5X0.5,-,NP |
| 17 | 2 | 2018461-03 | WLDMNT,MAINT. STRUT,11 1/4" L, FIXED | 41 | 2 | 012-202 | WASHER,LOCK,SPG,REGULAR,1/4, PREFERRED |
| 18 | 2 | 012-238 | WASHER,SPACER,1/2X1X5/64,NP | 42 | 4 | 011-502 | NUT,HEX,5/16-18,PREFERRED |
| 19 | 2 | 011-554 | NUT,HEX,NYLON,LOCK,1/2-13,PREFERRED | | | | |
| 20 | 4 | 012-714 | WASHER,STEEL,Zn,0.89ID X 1.5OD X 0.063THK | | | | |
| 21 | 4 | 013-127 | PIN,SPRING,SLOTTED,3/16X1 1/2,NP | | | | |
| 22 | 4 | 071-0019 | BUSHING,0.876X1.003X0.750 | | | | |
| 23 | 4 | 071-0020 | BUSHING,0.876X1.003X1 | | | | |
| 24 | 2 | 013-066 | PIN,SPRING,SLOTTED,5/32X1 1/4,PREFERRED | | | | |

12.0 POWERPACK PART IDENTIFICATION

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

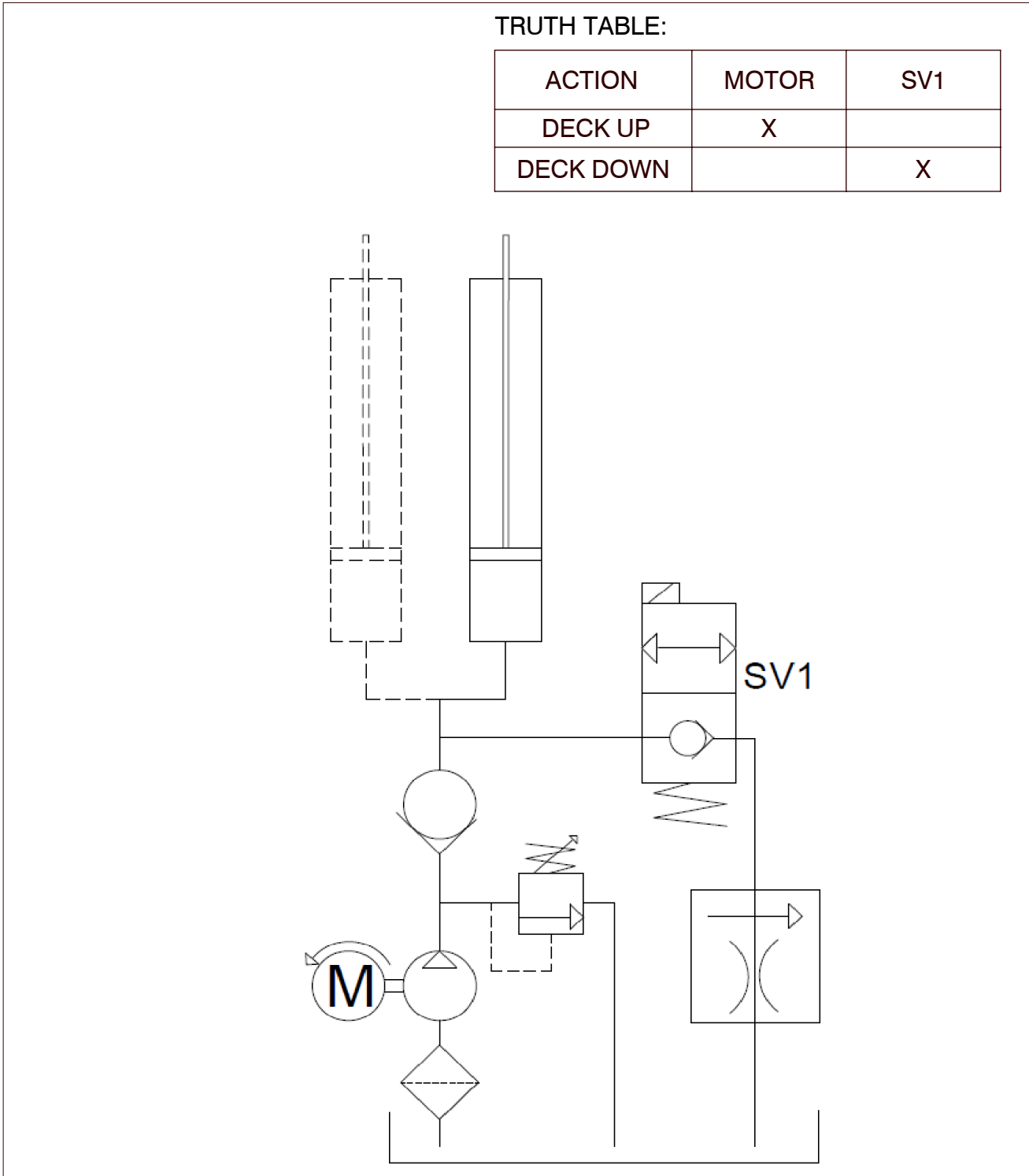
Refer to the electrical drawings for specific wiring requirements



| TILT LIFT TABLE POWERPACK | | | |
|---------------------------|-----------------|-------------------|----------------------------|
| ITEM | QTY | PART NO. | DESCRIPTION |
| A | 1 | 071-0126-115V-1PH | POWER PACK,1HP,115V,1PH |
| B | 1 | 033-349 | Motor |
| C | 1 | 033-351 | Pump (not shown) |
| D | 1 | 035-315 | Filler/Breather |
| E | 1 | 035-312 | Tank/Reservoir |
| F | 1 | 033-096 | Manifold |
| G | 1 | — | Junction Box |
| H | Varies on Model | — | Controls (Varies on Model) |

12.1 HYDRAULIC SCHEMATIC

This diagram illustrates the Powerpack hydraulic circuits.



13.0 TROUBLESHOOTING

Use this section to help diagnose issues if the Wide Base Lift Tilt Table is not operating as specified.

⚠ DANGER

- Failure to properly secure the Lift Table or Tilt Table prior to working underneath it may result in bodily injury, or death.
- Engage the Maintenance Struts before working. If both 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 Wide Base Lift 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 personnel, 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.

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

- Pressing the **UP** push button (if present) energizes the pump which supplies fluid under pressure to cylinder for Wide Base Lift Tilt Table deck. A check valve (inside pump) prevents any back flow of oil through pump when it is shut off.
- Pressing the **DOWN** push button (if present) opens the solenoid lowering valve which allows fluid from cylinder to return to reservoir. Optional: the lowering speed controlled by a load lowering valve. Otherwise, the lowering speed is factory set for safe lowering and normally requires no further adjustment.
- A limit switch is used to control upward travel, it is electrically connected in series with the **UP** push button switch on a single push button station.
- Upward travel of the deck is limited by mechanical 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.
- Electronic Toe Guards (if present) actuate limit switches which cut off power to solenoid lowering valve. Lowering valve closes and table stops descending. Adjustment is achieved by moving limit switch actuating arm. There should be between ¼ in. (6 mm) and 1 in. (25 mm) vertical movement of trip bar to actuate any of trip bar switches and must be set to comply with MH29.1 standards.

| PROBLEM | PROBLEM CAUSED |
|---|--|
| Deck will not raise. | <p>Foreign material lodged between side of deck and pit (if present) wall. Remove and discard foreign material as required.</p> <p>Equipment or goods parked on Lift Table or Tilt Table. Remove and test operate the Wide Base Lift Tilt Table. Verify Wide Base Lift Tilt Table capacity before resuming.</p> <p>Low hydraulic oil fluid in power unit. Damaged hose or other oil leak, repair and refill with approved hydraulic oil as required.</p> <p>Incorrect motor rotation: three phase power supply only. Contact qualified personnel to correct.</p> <p>Fuse and / or overload blown. Check fuse and / or overload reset.</p> <p>Filter may have blockages. Clean or replace suction filter.</p> <p>Valve may have blockages. Replace / repair if necessary.</p> <p>Pump not running at correct system pressure. Replace / repair if necessary.</p> <p>UP push button/open circuit (if present). Check for open circuit in UP limit set improperly contact block or broken wire in harness.</p> <p>Wrong voltage. Check line voltage to nameplate voltage.</p> <p>Motor connected to high voltage connection on lower voltage feed. Check motor connection to nameplate.</p> <p>Control fuse blown. Replace.</p> <p>Interlock devices. Check all switches.</p> <p>Shipping bolts not removed. Remove.</p> <p>Hydraulic hose pinched. Check hose.</p> |
| Wide Base Lift Tilt Table does not maintain steady height. | <p>Oil leak may be present. Repair leak.</p> <p>Motor check valve is defective. Replace, if necessary.</p> <p>Down solenoid valve is defective. Replace, if necessary.</p> |
| Wide Base Lift Tilt Table locked in "UP" position. When DOWN button is pushed, a click can be heard. | <p>Velocity fuse locked. Contact your Blue Giant Dealer.</p> <p>If equipped, lowering speed valve closed. Open to set proper lowering speed.</p> |
| Wide Base Lift Tilt Table will not lower. No clicking sound heard when a button is pressed. | <p>DOWN push button (if present) broken / open circuit. Check for open circuit in contact block, broken wire in harness, safety trip bar circuit (if equipped). Scissor leg bushings seized.</p> <p>Lowering valve defective. Replace.</p> |

IN-PLANT LFTWBETT LIFT TILT TABLE — OWNER'S MANUAL

| PROBLEM | PROBLEM CAUSED |
|--|--|
| Wide Base Lift Tilt Table raises slowly. | <p>Pressure relief bypassing. Foreign material lodged between ball and seat. Contact your Blue Giant Dealer.</p> <p>Faulty Power Pack. Replace Power Pack.</p> <p>Weight overload. Remove weight to until load matches nameplate weight capacity rating.</p> |
| Wide Base Lift Tilt Table will not begin to raise immediately when motor begins to run. Usually occurs only after the deck cylinder hose has been replaced with a new hose that was not pre-filled with oil. | <p>Air is trapped in the deck lifting cylinder. Bleed off the air.</p> |
| Wide Base Lift Tilt Table will not raise when UP push button (if present) is operated. Motor does not attempt to run, no sound is heard from motor/Powerpack/ control box | <p>No power supply to control box. Trace electrical feed.</p> <p>Thermal overload tripped open. Reset.</p> <p>Faulty control box component (e.g. fuse, touch button, contactor, transformer). Repair/Replace.</p> |
| Wide Base Lift Tilt Table will not raise when push button (if present) is operated. Motor attempts to run, but power supply breaker switch trips to off position | <p>Power supply circuit is overloaded by other equipment or components being used on a branch circuit controlled by the same breaker switch. The power supply line circuit must be upgraded to meet the requirements of the power unit.</p> <p>Wrong size feed supplied to Powerpack.</p> |
| Wide Base Lift Tilt Table lowering speed is too slow or too fast. | <p>Deck speed not set correctly. Lowering speed adjustment required, if equipped.</p> |
| Wide Base Lift Tilt Table raises partially and stops. Motor continues to run and power unit makes more noise than normal | <p>Oil level in reservoir is low. Fill oil reservoir with approved hydraulic oil.</p> |
| Wide Base Lift Tilt Table raises more slowly than normal and level in reservoir is normal | <p>Pilot operated to close Check Valve will not close. Replace.</p> <p>Faulty Powerpack. Replace.</p> |
| Wide Base Lift Tilt Table will not lower from fully raised position. | <p>The fall-safe velocity fuse located at the bottom of the deck cylinder is in the locked or closed position. Replace.</p> |
| tilt table does not extend fully. Oil level in reservoir is not low. | <p>tilt table plate bent causing hinge to bind. Replace.</p> <p>Foreign material lodged in the tilt table hinge area. Clean out material safely.</p> |
| Hydraulic tilt table lowers slowly in normal temperatures and very slowly in extremely cold weather. Deck lowering speed is correct. | <p>Consider the optional Oil Heater or using Arctic Oil. Opening the needle valve will cause the deck to lower too quickly, which will in turn cause the fail-safe velocity fuse to lock.</p> <p>The tilt table lowers by gravity and must pivot freely on its full length hinge.</p> <p>Speed control set too low. Adjust as needed.</p> |

14.0 OPTIONAL EQUIPMENT

These components are available as additional options for the Wide Base Lift 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 Wide Base Lift Tilt Table.
- Accordion safety skirting acts as a barrier to keep under the Wide Base Lift Tilt Table clean and provide personnel awareness.
- Electric trip bars that stops the Wide Base Lift Tilt Table if any obstructions are sensed during lowering.

BLUE GIANT[®]
BLUE GIANT EQUIPMENT CORPORATION

Corporate 410 Admiral Blvd
Mississauga, ON, Canada L5T 2N6
t 905.457.3900 f 905.457.2313

USA 9201 National Turnpike
Louisville, KY 40118
www.bluegiant.com