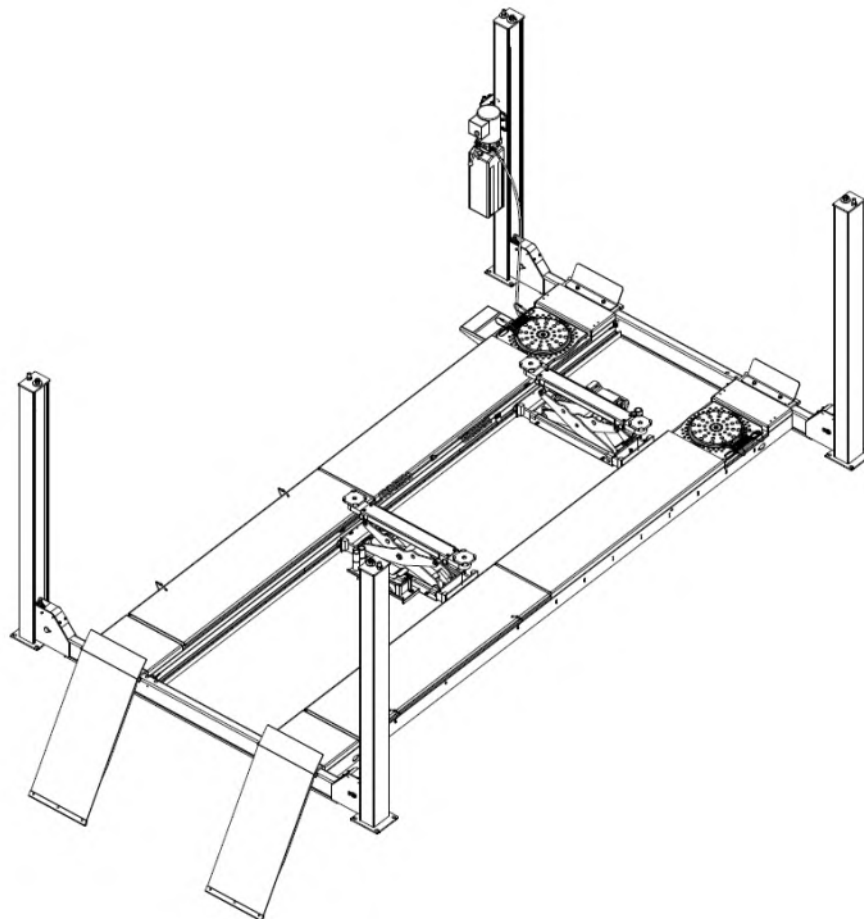


# 12K 4-Post Alignment Lift

## INSTALLATION AND OPERATING MANUAL

**READ THOROUGHLY BEFORE INSTALLING,  
SERVICING OR MAINTAINING THE LIFT.**

SAVE THIS MANUAL



INSTALLATION and OPERATION MANUAL

12K 4-Post Lift

EELR529A, EELR728A and EELR369A for Lift  
EELS900A for Jacking Beam

309 EXCHANGE AVENUE, CONWAY, ARKANSAS, 72032  
TEL: 501-450-1500 FAX: 501-450-1585

EAZ0080V51A  
NOV 2020  
REV.I

## 1. OWNER / USER OBLIGATIONS

1. The Owner/User shall ensure that lift operators are qualified and that they are trained in the safe use and operation of the lift using the manufacturer's operating instructions; ALI/SM 93-1, **ALI Lifting it Right** safety manual; ALI/ST-90 **ALI Safety Tips** card; ANSI/ALI ALOIM-2013, **American National Standard for Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance, Appendix A (Operator Training Log)**; ALI/WL Series, **ALI Uniform Warning Label Decals/Placards**; and in the case of frame engaging lifts, ALI/LP-GUIDE, **Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts**.
2. The Owner/User shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2013, **American National Standard for Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance, Appendix B and Appendixes C through F**; and the User shall ensure that the lift inspectors are qualified and that they are adequately trained in the inspection of the lift.
3. The Owner/User shall establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2013, **American National Standard for Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance, Appendix G (Planned Maintenance Log)**; and the User shall ensure that the lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.
4. The Owner/User shall maintain the periodic inspection and maintenance records recommended by the lift manufacturer's instructions or ANSI/ALI ALOIM-2013, **American National Standard for Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance**
5. The Owner/User shall display the lift manufacturer's operating instructions; ALI/SM 93-1, **ALI Lifting it Right** safety manual; ALI/ST-90 **ALI Safety Tips** card; ANSI/ALI ALOIM-2013, **American National Standard for Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance**; ALI/WL Series, **ALI Uniform Warning Label Decals/Placards**; and in the case of frame engaging lifts, ALI/LP-GUIDE, **Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts** in a conspicuous location in the lift area convenient to the operator.
6. The Owner/Operator shall provide necessary lockout/tagout means for energy sources per ANSI Z244.1-1982 (R1993), **Safety Requirements for the Lockout/Tagout of Energy Sources**, before beginning any lift repairs and maintenance.
7. The Owner/User shall not modify the lift in any manner without the prior written consent of the manufacturer.

---

**⚠ WARNING** DO NOT ATTEMPT TO OPERATE THIS LIFT IF ANY PART IS NOT WORKING PROPERLY OR YOU HAVE NOT READ THE COMPLETE OPERATING INSTRUCTION MANUAL.

---

## 1.1 IMPORTANT SAFETY INSTRUCTIONS

When using this lift, basic safety precautions should always be followed, including the following:

1. Only trained and authorized personnel should operate the lift or rolling jacks. Do not allow customers or bystanders to operate the lift or be in the shop area while lift is in use.
2. Read all instructions in this manual and on the lift. Thoroughly train all employees in the use and care of lift and rolling jacks.
3. Inspect lift daily. Do not operate if it malfunctions or problems have been encountered.
4. Ensure no one is standing in front or behind the lift while vehicle is being driven on or backed off the lift.
5. Before driving vehicle on, make sure lift is in the fully down position.
6. Before removing the vehicle from the lift, make sure the lift is in the fully down position and ensure that all tools have been removed from the deck surfaces.
7. Always raise the lift off safety locks before lowering.
8. Do not allow rear tires or portion of the vehicle to interfere with approach ramp.
9. Be sure front wheel stops are always installed on the lift.
10. Never allow front wheels to strike the front wheel stops.
11. Do not permit employees or customers on lift when it is either being raised or lowered.
12. Never raise vehicle with passengers inside.
13. Always stand clear of lift when raising or lowering and observe "Pinch points" warning.
14. Before lowering the lift, check area for any obstructions
15. Never attempt to overload the lift. The manufacturer's rated capacity is shown on the identification label on the power column.
16. Do not override the operating controls or safety mechanisms, or the warranty will be void. The mechanical safeties are designed to engage automatically on the way up.
17. Always use wheel chocks to keep the vehicle from rolling freely on the runways. Wheel chocks should be used at the front and back of the same wheel.
18. Always use Personal Protective Equipment (PPE) when installing or servicing the lift.
- 19. Caution! Never work under the lift unless the mechanical safety locks are engaged.**
20. Always keep the lift area free of obstruction, tools and debris. Grease and oil spills should always be cleaned up immediately.
21. Always keep runways clean.
22. To protect against the risk of fire, do not operate lift in the vicinity of open containers of flammable liquids.
23. Adequate ventilation should be provided when working on internal combustion engines.
24. Replace all caution, warning, or safety related decals on the lift when unable to read or missing.
25. For Rolling Jack Safety Instructions, see Rolling Jack Installation, Operation and Maintenance Instructions in the Appendix - A.

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### SAFETY INSTRUCTIONS

If attachments, accessories or configuration modifying components that are located in the

load path, affect operation of the lift, affect the lift electrical listing or affect intended vehicle accommodation are used on this lift and, if they are not certified for use on this lift, then the certification of this lift shall become null and void. Contact the participant for information pertaining to certified attachments, accessories or configuration modifying components.

[www.autolift.org](http://www.autolift.org)

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ALI / WLSIA01

## 1.2 SAFETY WARNING LABELS FOR 4-POST SURFACE MOUNTED ROLL-ON LIFTS

### Automotive Lift Institute, Inc.



The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 85 Cortland, NY 13045.

Replacement label sets may be obtained from the original lift manufacturer and ALI's member companies. They are protected by copyright.  
[www.autolift.org](http://www.autolift.org) © 2009 by ALI, Inc. ALI/WL200c



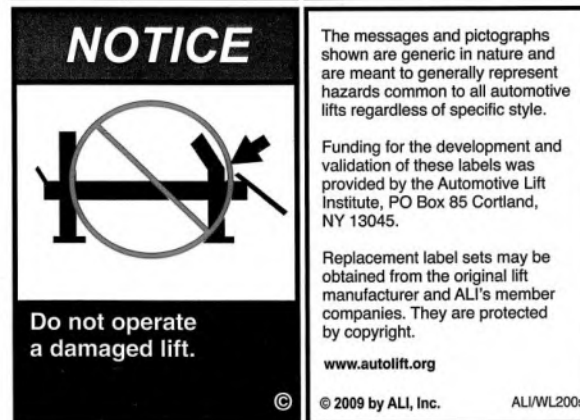
**NOTICE**

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### WL200 Series Label Kit



The messages and pictographs shown are generic in nature and are meant to generally represent hazards common to all automotive lifts regardless of specific style.

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**SAVE THESE INSTRUCTIONS**

## 2. TABLE OF CONTENTS

<b>1. OWNER / USER OBLIGATIONS .....</b>	<b>- 2 -</b>
1.1 IMPORTANT SAFETY INSTRUCTIONS.....	- 3 -
1.2 SAFETY WARNING LABELS FOR 4-POST SURFACE MOUNTED ROLL-ON LIFTS .....	- 4 -
<b>2. TABLE OF CONTENTS.....</b>	<b>- 5 -</b>
<b>3. GENERAL SPECIFICATIONS.....</b>	<b>- 6 -</b>
<b>4. TOOLS REQUIRED FOR INSTALLATION .....</b>	<b>- 7 -</b>
<b>5. PACKAGING CONTENTS .....</b>	<b>- 7 -</b>
<b>6. ALIGNMENT LAYOUT .....</b>	<b>- 8 -</b>
<b>7. INSTALLATION INSTRUCTIONS .....</b>	<b>- 9 -</b>
7.1 CHALK LINE LAYOUT .....	- 10 -
7.2 IDENTIFICATION OF MAIN LIFT COMPONENTS .....	- 11 -
7.3 CROSS-BEAMS AND RUNWAY ASSEMBLIES .....	- 12 -
7.4 COLUMN INSTALLATION.....	- 16 -
7.5 ANCHOR COLUMNS .....	- 17 -
7.6 CABLE INSTALLATION.....	- 18 -
7.7 POWER UNIT AND AIR BUTTON VALVE ASS'Y INSTALLATION.....	- 18 -
7.8 INSTALL FRONT TURNTABLES .....	- 22 -
7.9 DECAL PLACEMENT.....	- 23 -
<b>8. OWNER/USER CHECKLIST .....</b>	<b>- 23 -</b>
<b>9. OPERATION PROCEDURE.....</b>	<b>- 23 -</b>
<b>10. PARTS LIST.....</b>	<b>- 26 -</b>
10.1 LIFT ASSEMBLY .....	- 26 -
10.2 CABLES .....	- 28 -
10.3 RUNWAY PULLEYS.....	- 29 -
10.4 CROSS BEAM.....	- 30 -
10.5 SLIP PLATE ASSEMBLY.....	- 32 -
10.6 RELEASE POLYTUBE SYSTEM .....	- 33 -
10.7 POWERPACK UNIT .....	- 35 -
<b>11. ACCESSORY.....</b>	<b>- 37 -</b>
11.1 TURNTABLES.....	- 37 -
11.2 JACK BEAM AND ACCESSORY.....	- 37 -
11.3 SHIM KIT .....	- 37 -
11.4 WORK STEP .....	- 37 -
11.5 DRIVE THROUGHT KIT .....	- 37 -
11.6 WHEEL CHOCK.....	- 37 -
<b>APPENDIX – A INSTALLATION, OPERATION &amp; MAINTENANCE MANUAL FOR JACK BEAM .....</b>	<b>- 38 -</b>
<b>APPENDIX – B JACK BEAM AIR SUPPLY SYSTEM .....</b>	<b>- 44 -</b>
<b>APPENDIX – C FOUNDATION PLAN .....</b>	<b>- 50 -</b>
<b>CHANGE HISTORY .....</b>	<b>- 51 -</b>

### 3. GENERAL SPECIFICATIONS

Maximum Capacity	12,000 lb.	5450 kg
Maximum Wheelbase – General Service	183"	4646 mm
Maximum Wheelbase – 2-Wheel Alignment	168-13/16"	4288 mm
Maximum Wheelbase – 4-Wheel Alignment	158-1/2"	4026 mm
Minimum Wheelbase – 4-Wheel Alignment	88-1/2"	2248 mm
Overall Length	251-1/2"	6383 mm
Overall Width	136-1/8"	3458 mm
Lowered Runway Height	7-3/8"	187mm
Maximum Lifting Height (to runway surface)	78"	1981 mm
Rise Time	74 Seconds	
Ramp approach angle (no shims)	10°	
Air Supply requirements:	90 - 120 PSI	
Pneumatic Filtration Oil Type:	Snap-on Air Tool oil or equivalent	
Hydraulic Oil Capacity:	2.6 gal	10L
Hydraulic Oil Type:	ISO 32 (10 weight) hydraulic oil	
Power Requirements	Standard motor	230VAC, 1PH., 60 Hz, 12.5A
Shipping Weight	3307lb	1500 kg
Maximum Operating Pressure (Full Load):	2900 psi	200 Bar
Jack Beam Fully Raised Up	13-1/8"	332.5mm
Jack Beam Fully Collapsed	3-1/8"	78.5mm
Extension Adapter for Jack Beam	3"	76mm
Min. Recommended Bay Size	12'x24'2"	3658x6400mm

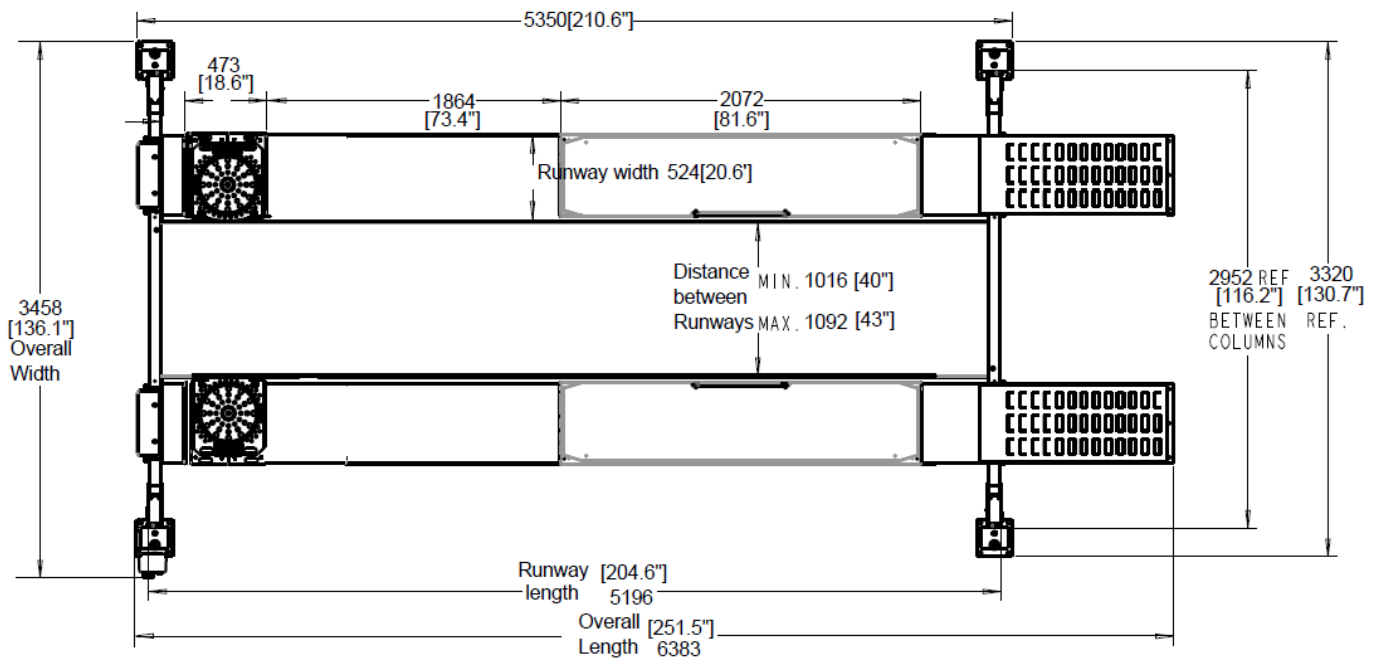


Figure 1

#### **4. TOOLS REQUIRED FOR INSTALLATION**

ROTARY HAMMER DRILL  
3/4" CONCRETE DRILL BIT  
1/2" CONCRETE DRILL BIT  
4' LEVEL  
HEIGHT GAUGE  
LASER LEVEL  
HAMMER (for anchor installation)  
PRY BAR (for shim installation)  
CHALK LINE (lift location)  
TAPE MEASURE  
ELECTRICAL TAPE  
STEP LADDER (adjusting cables and/or safety ladder in posts)  
SIDE CUTTERS (for cutting shipping straps)  
4 WORK STANDS (set up)  
STANDARD SOCKETS AND WRENCHES  
ALLEN KEY SET  
SCREWDRIVER SET  
FLOOR JACK OR ENGINE HOIST  
BOX CUTTER / SNIPS (to remove packaging)  
RUBBER OR PLASTIC MALLET

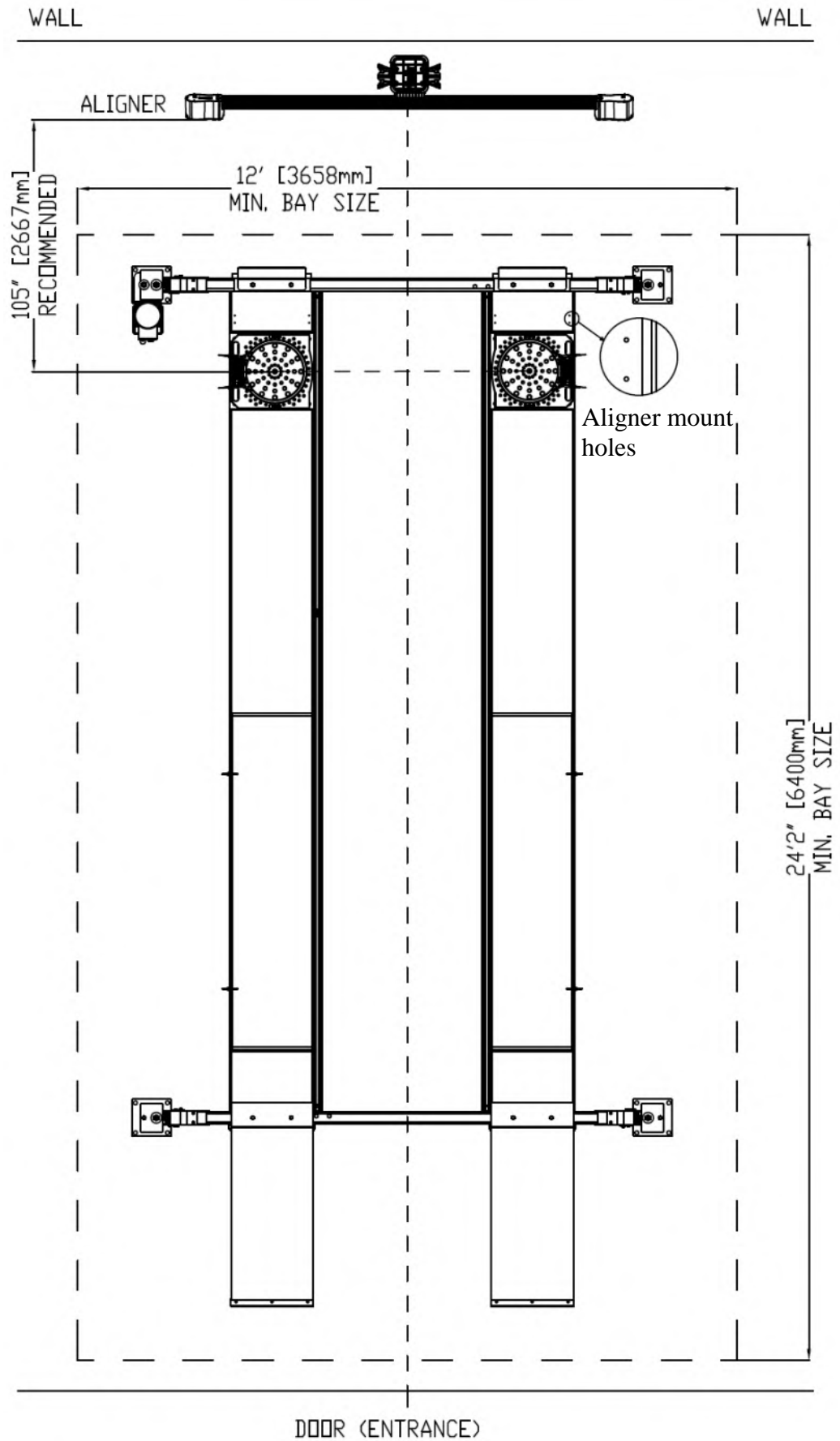
#### **5. PACKAGING CONTENTS**

The lift is packaged to protect it from damage during shipping. The two deck assemblies and cross-beams are packaged together with the accessory boxes strapped to them.

##### **Main Components:**

1 - Left Side Deck Assembly (complete with hydraulic cylinder)  
1 - Right Side Deck Assembly  
1 - Front Cross-member Assembly (with air cylinder release locks)  
1 - Rear Cross-member Assembly (with air cylinder release locks)  
1 - Power Pack  
2 - Ramps  
1 - Accessory Box

## 6. ALIGNMENT LAYOUT



**Figure 2**



## 7. INSTALLATION INSTRUCTIONS

**PLEASE TAKE THE TIME TO READ THESE INSTRUCTIONS COMPLETELY. A QUICK CHECK OF THE CONTENTS OF THE ACCESSORY BOX WOULD ALSO DECREASE THE INSTALLATION TIME.**

- Gather the tools and materials required for the installation.
- Select the location best suited for your lift.

**NOTE:** In determining lift area check for the following:

- Ease of driving a vehicle on and off the lift.
- Overhead obstructions, low ceiling height, overhead doors, overhead heaters etc. Minimum ceiling clearance must be 12 ft. Lower ceiling heights may interfere with servicing some vehicles
- Floor obstructions, drains, uneven floor in lift area, work benches, electrical wiring in floor, etc.



**ATTENTION!** This lift is intended for indoor installation only. It is prohibited to install this product outdoors. Operating environment temperature range should be 41 – 104 °F (5 – 40 °C). Failure to adhere will result in decertification, loss of warranty, and possible damage to the equipment.

**IMPORTANT:** It is the user's responsibility to provide a satisfactory installation area for the lift. Lifts should only be installed on level concrete floors with a minimum thickness of four (4) inches or 102mm. Concrete must have a minimum compressive strength of 3500 psi (24 MPa) and should be aged thirty (30) days prior to installation. Please consult the architect, contractor or engineer if doubt exists as to the strength and feasibility of the floor to enable proper lift installation and operation.

It is the user's responsibility to provide all wiring for electrical hook-up prior to installation and to ensure that the electrical installation conforms to local building codes. Where required, it is the user's responsibility to provide an electrical isolation switch located in close proximity to the lift that will enable emergency stop capability and isolate electrical power from the lift for any servicing requirements.

Recommended clearance around the lift is 3 to 4 feet. Ensure clearance conforms to local building and fire codes. Recommended overhead clearance is a minimum twelve (12) foot ceiling providing 6 feet for the maximum lift height and 6 feet for the supported vehicle. For vehicles taller than 6 feet it is recommended that the user provides additional overhead clearance or a shut off mechanism to stop the lift from raising the vehicle too high.

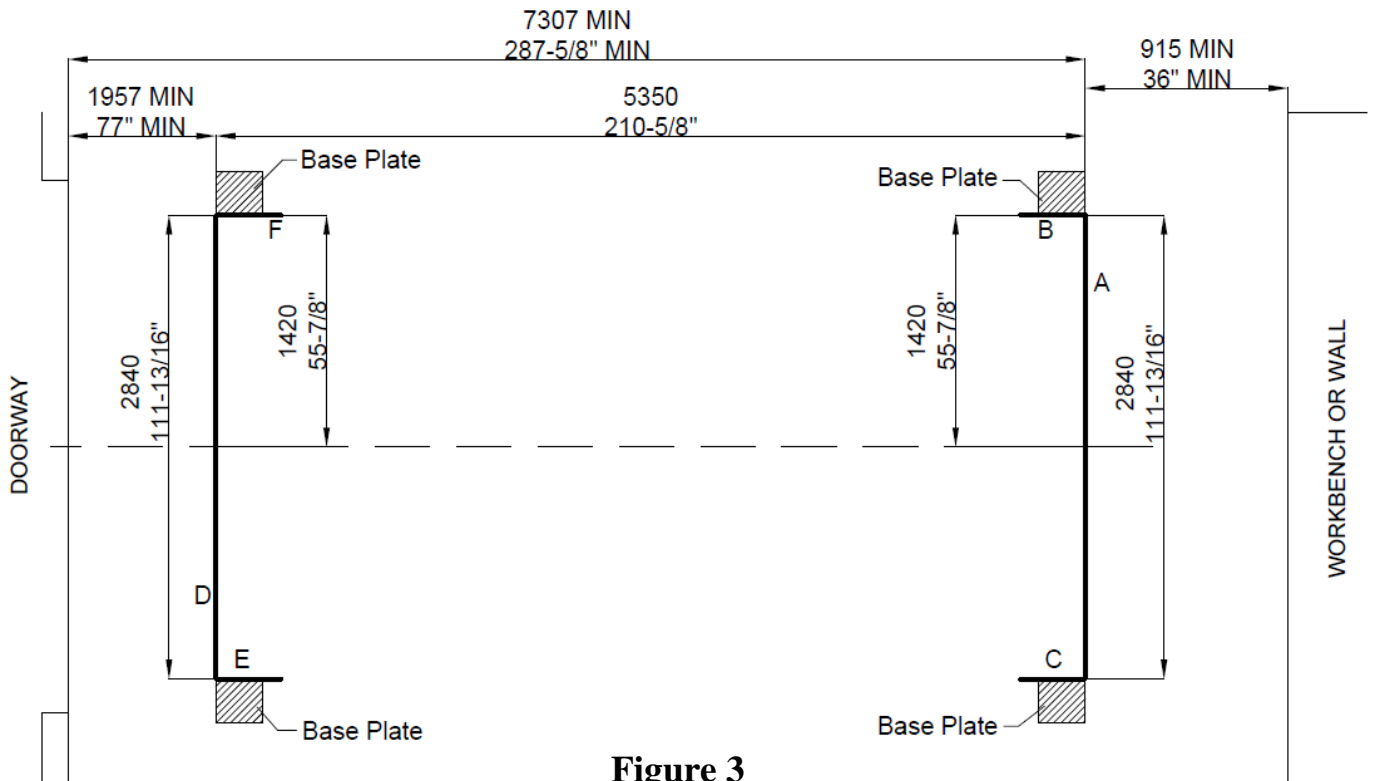
An outline matching the dimensions shown in **Figure 3** will need to be marked on the floor. Refer to **Figure 3** for outline dimensions. Refer to General Lift Specifications for overall lift dimensions.



**DO NOT** install the lift on asphalt or other unstable surfaces. Lift columns are supported only by anchors in floor.

**INSTALLER:** PLEASE RETURN THIS BOOKLET TO LIFT OWNER/OPERATOR AFTER COMPLETING INSTALLATION

## 7.1 CHALK LINE LAYOUT



**Figure 3**

NOTE: For alignment layout, please refer to **Figure 2**.

**⚠ WARNING**

None of the front anchors shall be closer than 8" to any edge of a concrete slab, expansion joint or crack in the garage floor. Review position of front towers, base plates and anchors, and relocate lines "A" - "F" if needed.

- **Refer to Figure 3.** Make a chalk line parallel to the doorway at least 287" from the doorway. This will be the location for the front edges of the front tower base plates. Call this line "A".
- Determine the center of the doorway and bay. Make a centerline to intersect with line "A".
- Make two chalk lines spaced 55-7/8" to the left and right side of the centerline (111-13/16" apart). Call these lines "B" and "C" respectively. These will be the locations of the inside edges of the front tower base plates.
- Make a chalk line spaced 210-5/8" to the back from line "A". Call this line "D". This is the position of the rear edges of the rear tower base plates.
- Make two chalk lines spaced 55-7/8" to the left and right side of the centerline (111-13/16" apart). Call these lines "E" and "F" respectively. These will be the locations of the inside edges of the rear tower base plates.

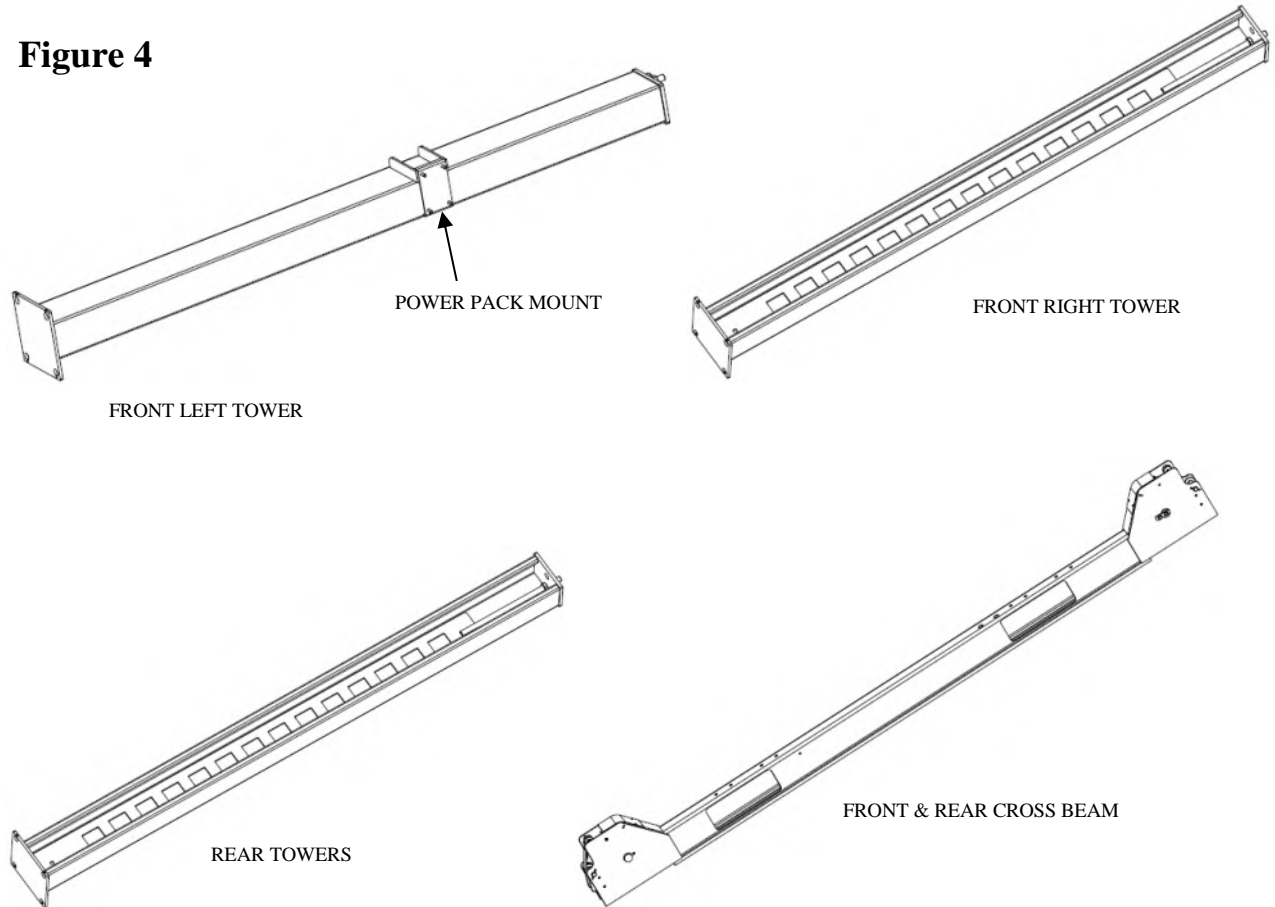
## 7.2 IDENTIFICATION OF MAIN LIFT COMPONENTS

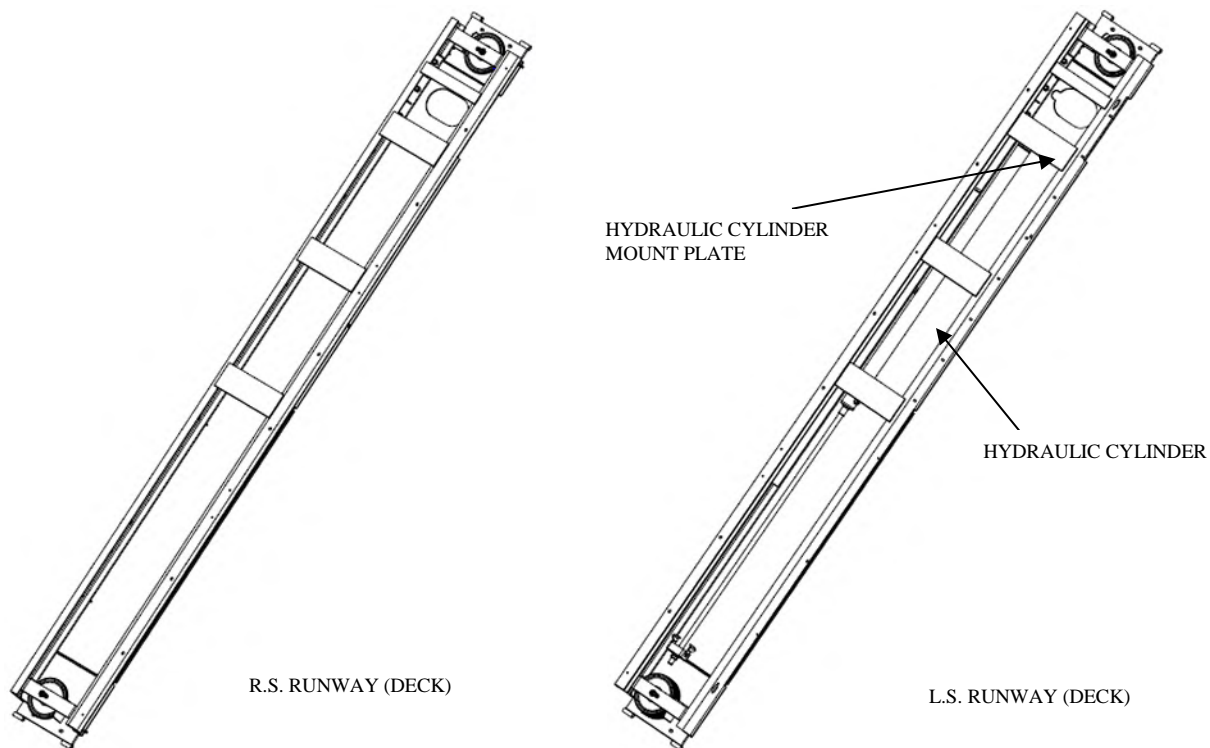
- Identify and unpack major lift components (cables, columns, cross beams) and place them where they belong (front left, front right etc.) See **Figure 4**

**Note: Do not throw away the 8 set of screws and washers from shipping frame. These screws and washers are also intended for fixing decks on cross beams, see Section 7.3.**

- Place components in their approximate locations. Do not unwind cables at this point. Leave cables coiled, close to their respective towers.
- Place runways (decks) about 40" apart and about 3 ft behind line "A"

**Figure 4**





- Identify and place coiled cables as follows, close to their respective towers (Table 1): All cables are pre-install in L.S. Runway, see **Figure 5**

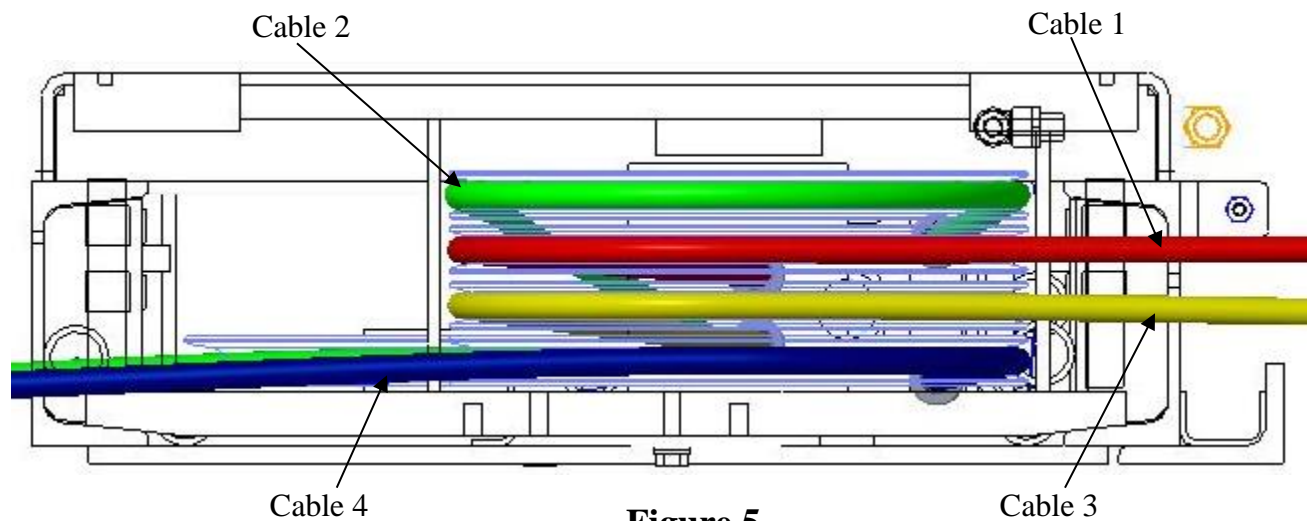
CABLE S/N	CABLE P/N	LOCATION	LENGTH
CABLE 1	EAA0485V10A	FRONT RIGHT	10409mm /409-3/4"
CABLE 2	EAA0485V09A	FRONT LEFT	8680mm /341-3/4"
CABLE 3	EAA0485V11A	REAR RIGHT	5060mm /199-1/4"
CABLE 4	EAA0485V08A	REAR LEFT	3575mm /140-3/4"

**Table 1: Cable part numbers**

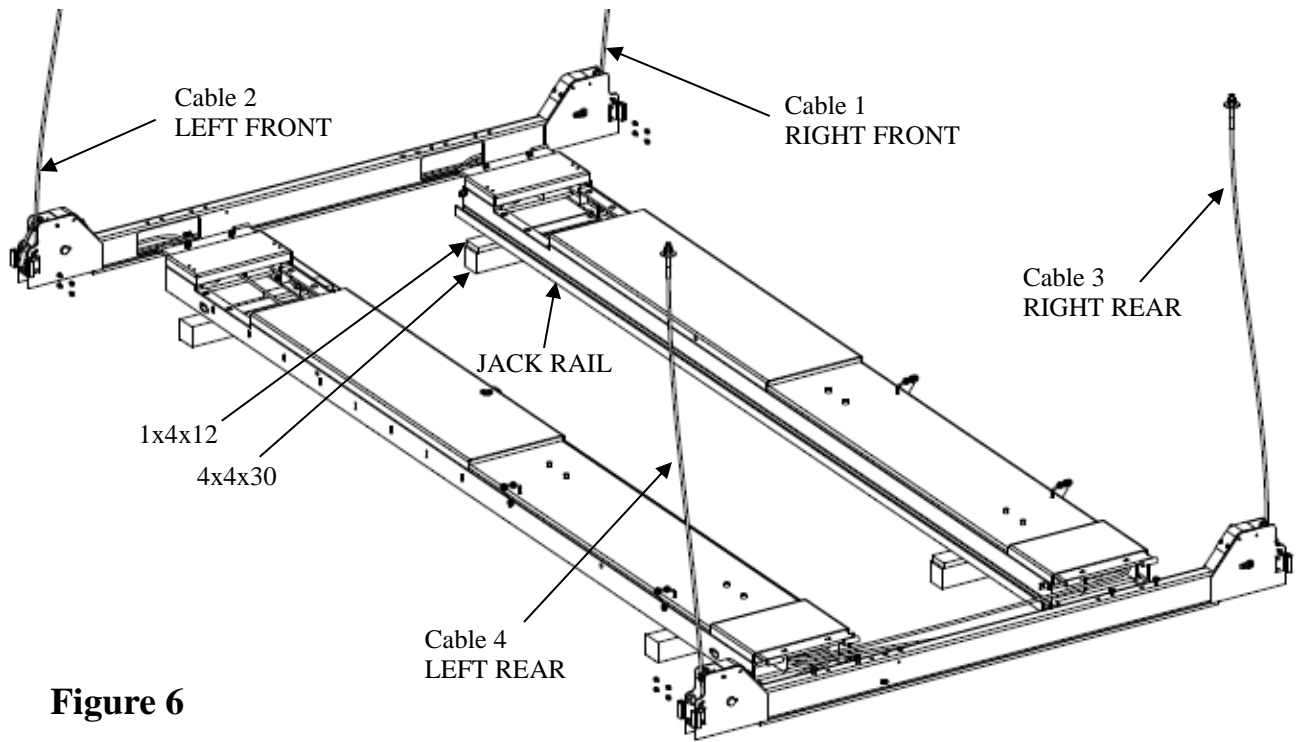
### 7.3 CROSS-BEAMS AND RUNWAY ASSEMBLIES

- Unpack lift. Remove all packaging from Power Runway (power runway has four cable pulleys at rear end) and pull threaded cable ends out. Make sure the cables are in the proper pulleys at the 4-stack, **Figure 5**
- Position runways on blocking (see **Figure 6**) per layout lines established as **Figure 2 & 3**. Use four 30" long 4x4's spanning the width of the runway and four 12" long 1x4's to shim up the jack rail side of the runway. Cable #1, #3, & #4 should be extending out from the rear of the power runway and cable #2 from the front of the power runway.
- Position the front and rear cross beams, **Figure 6**. (Front Cross beam are marked with FRONT label on the parts.)
- Remove the four (4) cross beam pulleys (one pulley from each end) and the two idler runway pulleys (also one pulley from each end). The runway pulley pins do not need to be removed, just lowered enough to remove the pulleys, **Figure 10**.
- Starting from the bottom of the pulley stack, route cable #4 through the access hole and up out the left end of the rear beam. Repeat for cable #3 out the right end of the rear beam. Route cable #1 through the access hole, and back out the idler side access hole. **Look through the idler end of the cross beam and ensure that cable #1 and #3 have not crossed, Figure 9.**

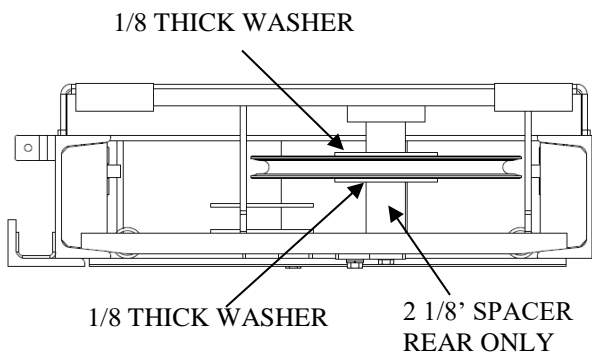
- Route cable #1 through the idler runway, into the front cross beam access hole, and out the right end of the front beam. (Don't forget to route it up over the cross-braces in the bottom of the runway.), **Figure 9**.
- Route left front cable #2 through the access hole and up out the left end of the front beam, **Figure 9**.
- Re-install the cross-beam pulleys with one plastic bearing washer on each side of each pulley.
- Re-install the idler runway pulleys, with one plastic bearing above and below each pulley per **Figures 7 & 8**. Note: use one 2 1/8" long spacer at the idler rear pulley only.
- Confirm that a 2 1/8" spacer is installed at the rear of the idler runway and none at the front of power or idler runways.
- Attach both cross beams to the runways (**Figure 7**) with M12 x 35mm lg. flange head bolts (two at each end of each runway) being careful not to pinch the poly tubes. Leave the ends of poly tube hanging out the bottom of the cross-beam access holes at this time, they will be fed in through the runway after the lift is raised. **The outermost power runway slots should be in line with the outermost holes in the top of the cross beam.** The idler runway can be installed using the outer or inner sets of cross beam holes with the same set of cables, see "Width Between Runways" dimension in Page 6. Do not torque bolts yet.
- Check the layout of the lift in the bay. (This is the last opportunity to re-position the lift.) Adjust the position of the runways so the distance from power side jack rail to idler side jack rail is the same at the front and the rear and the diagonal measurements from the front tip of one rail to rear tip of the opposite rail are within 1/4", **Figure 9**.
- Center cross beam bolts with slots in runway and tighten. (Be careful not to move runways.)



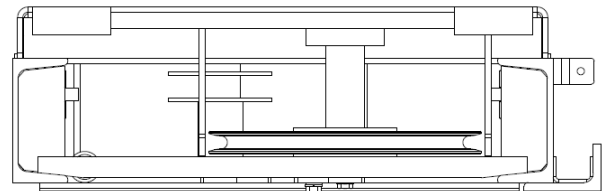
**Figure 5**



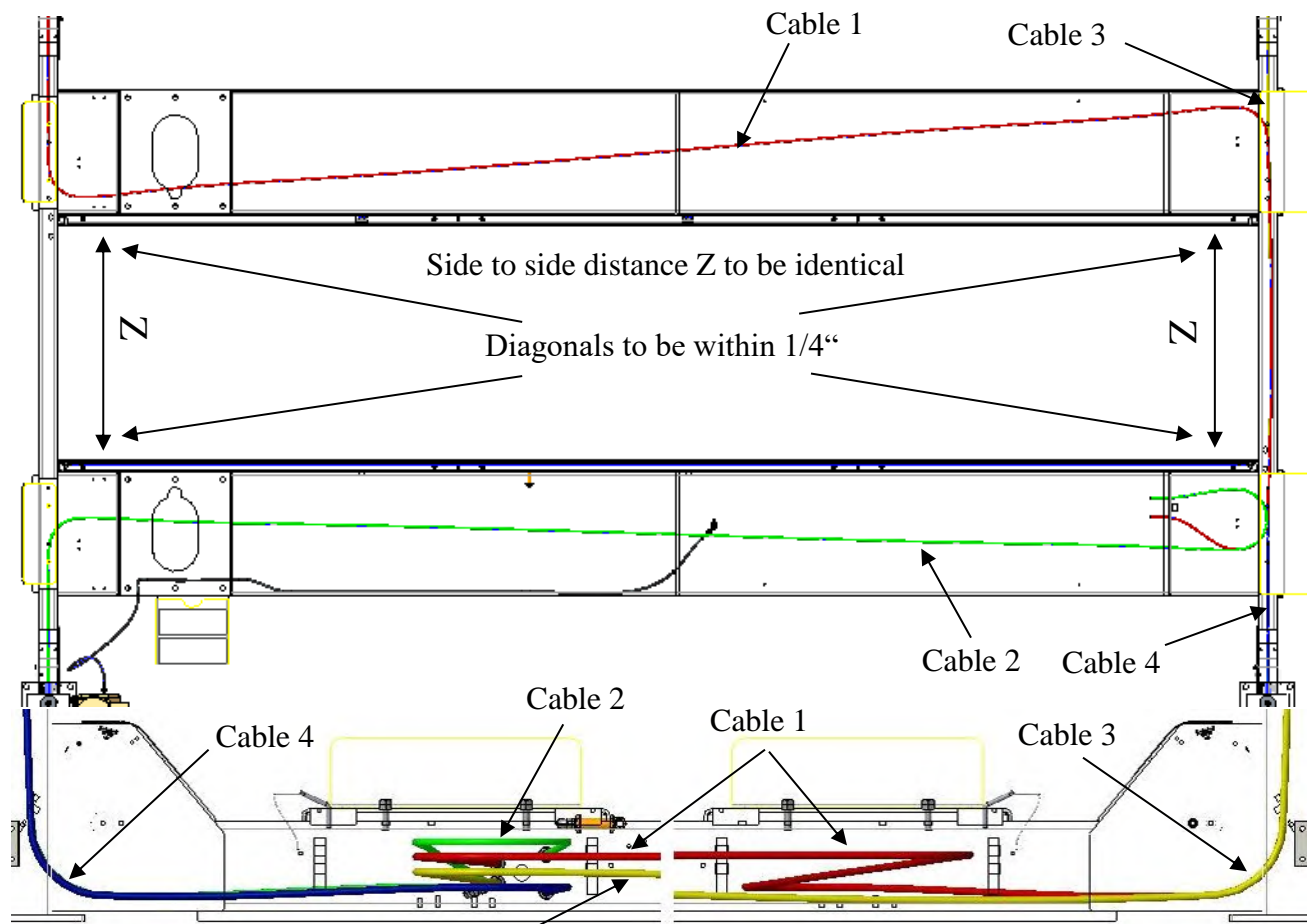
**Figure 6**



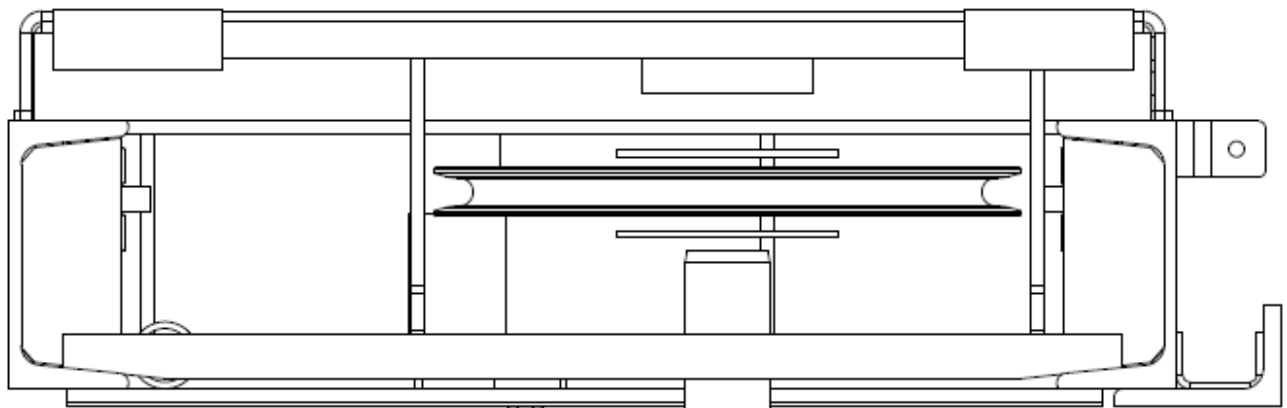
**Figure 7 - Rear Single-Stack (idler runway)**



**Figure 8 - Front Single-Stack (typical for idler and power runways)**



**Figure 9 - Cable Route  
Inside Deck and Cross Beam**



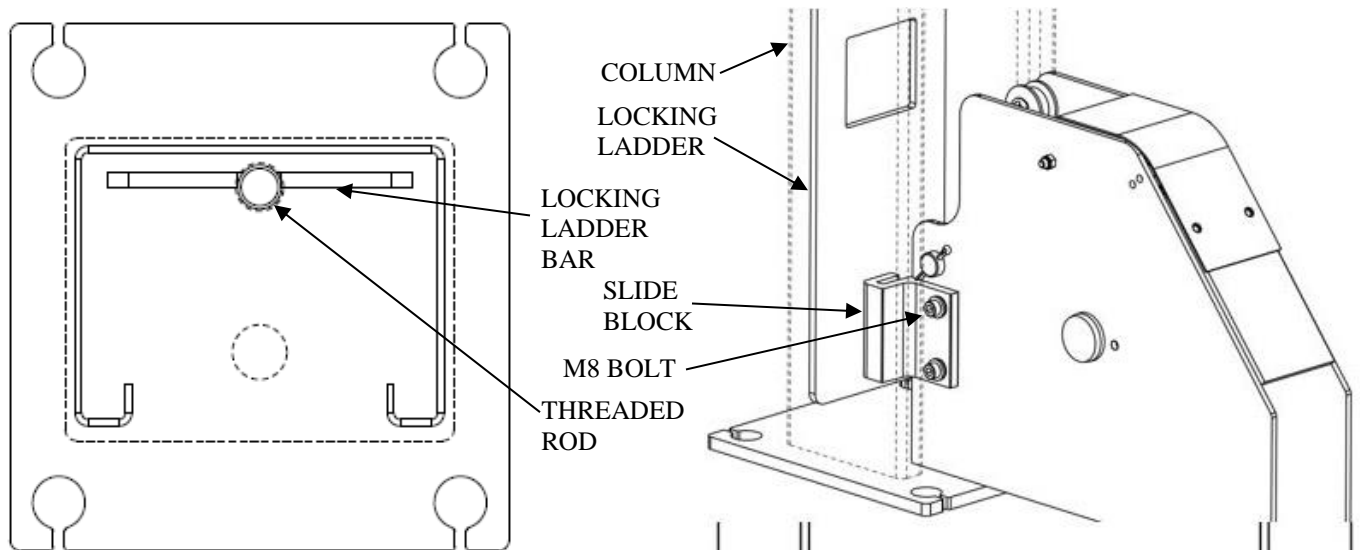
No need to fully pull out the pulley shaft,  
just enough to free the pulley.

**Figure 10 - Cable Pulley**

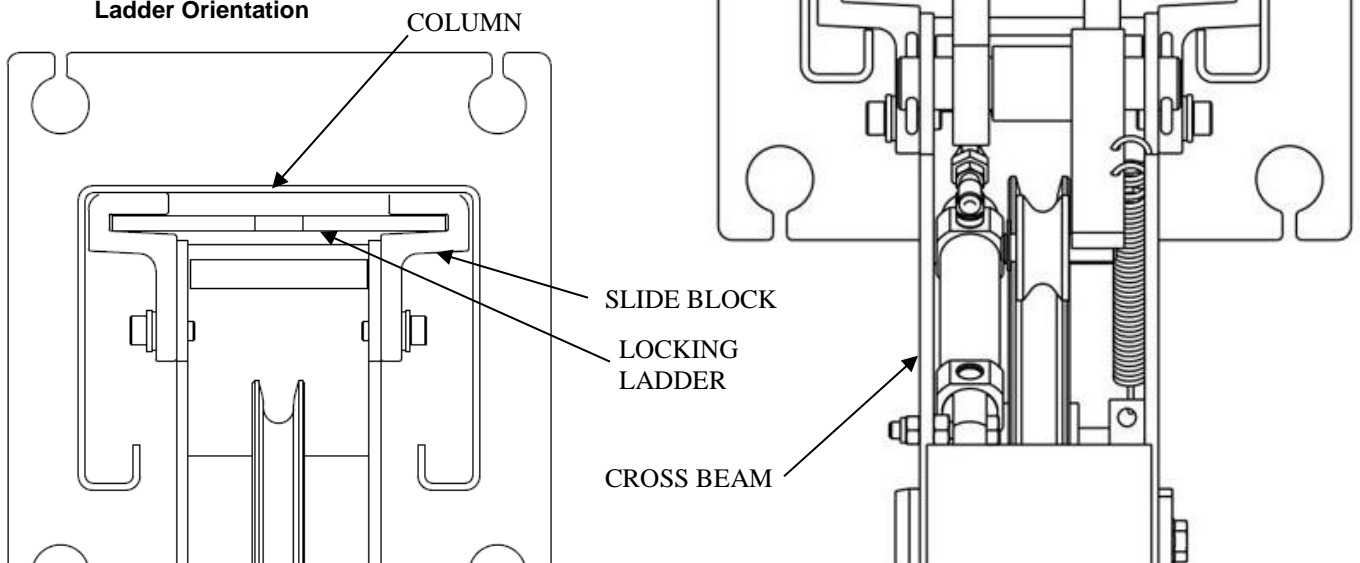
No need to  
unscrew this bolt

## 7.4 COLUMN INSTALLATION

- Stand up a column assembly near each corner of the lift (column with power unit bracket goes at the front left corner, power front) and check the locking ladder bar orientation per **Figure 11**. Note that the center of the threaded rod is offset (away from the back of the column) from the center of the ladder. Thread the locking ladder jam nut (located under the column top plate) down approximately 10-1/2" to allow the ladder to be lifted freely.
- Slide power side column onto cross beam until the M8 threaded holes in the side of the beam are just exposed. Position slide blocks as shown in **Figure 12** and attach with M8 x 16mm lg. bolts (**apply thread locking compound before installing**).
- Raise the locking ladder, push the column against the slide blocks, and lower the ladder into the slide blocks, **Figure 13**. (Columns should still be pull back to chalk line position)



**Figure 11** – Locking Ladder Orientation



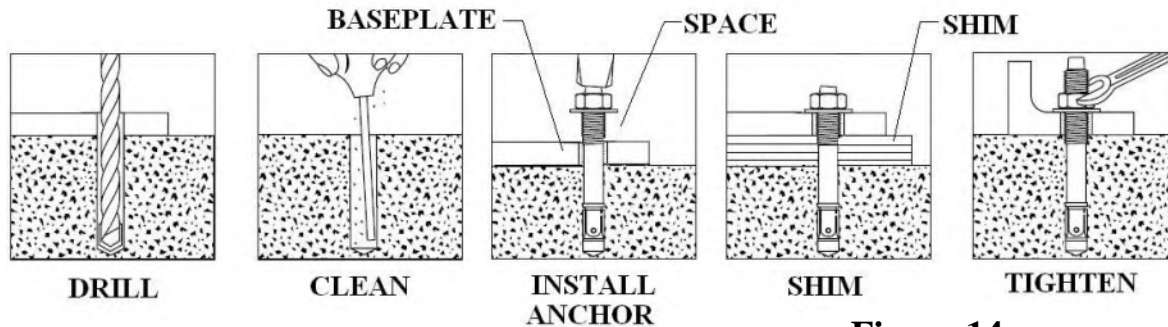
**Figure 12** – Slide Block Installation

**Figure 13** – Locking Ladder Orientation



## 7.5 ANCHOR COLUMNS

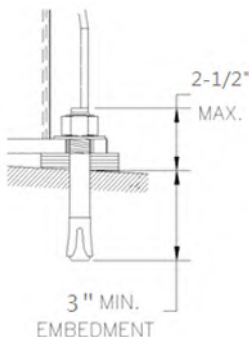
- Prior to installing anchors, assemble the nut and washer onto anchors. A minimum of six threads must be visible below the surface of the nut. Refer to the **Figure 14** while reading through the following instructions.



**Figure 14**

- The anchor bolts must be installed at least 8" from any crack, edge, or expansion joint.
- Use a concrete hammer drill with a 3/4-inch carbide bit. Tip diameter should conform to ANSI Standard B94.12-1977 (.775 to .787). Do not use excessively worn bits or bits which have been incorrectly sharpened. A core bit may be necessary if an obstruction is encountered. **Never substitute with shorter anchor.**
- Drill the anchor holes using the base plate as a template. Drill completely through the concrete floor.
- Vacuum dust from the hole for proper holding power.
- Shim columns to plumb using the shims provided or steel washers. **DO NOT** shim more than 1/2" at any given point. Use a level no less than 24" in length to plumb columns.
- Assemble washer and nut to anchor with nut just below impact section of bolt. Drive anchor into hole until nut and washer contact base. Tighten anchor bolts and recheck column for plumb. Re-shim as required.
- Torque to 120 foot-pounds (163Nm) to set anchors.

**NOTE: Level bubble should not only be between the lines, the bubble should be centered between the lines. If the provided shims do not allow sufficient centering of the bubble, it is best to lean the rear and front columns in the direction toward each other and tilt no more than 0.5° (degree).**



**NOTE:** The 3/4" × 5-1/2" lg. wedge anchor bolts supplied must have a minimum embedment of 3" into the concrete floor.

**NOTE:** If anchors do not tighten to required torque, OR project more than 2-1/2" above the concrete surface, the concrete under the towers may not be sufficient and need to be replaced by an appropriate concrete pad.

**NOTE:** In cases where the floor is extremely out of level, the mechanical safety latches may not engage on the same lock

## **⚠ WARNING**

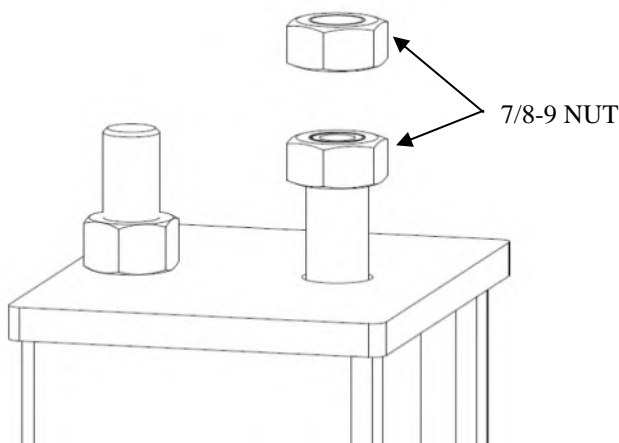
DO NOT use more than 1/2" (13mm) of shims. Anchor bolts supplied allow for a maximum of 1/2" (13mm) of shim. If more than 1/2" (13mm) of shims are required, DO NOT proceed with installation and contact Snap-on Equipment Technical Support for further details.

**NOTE:** Refer to **Figure 1** and **Figure 3** to ensure that the column is still in the proper position.

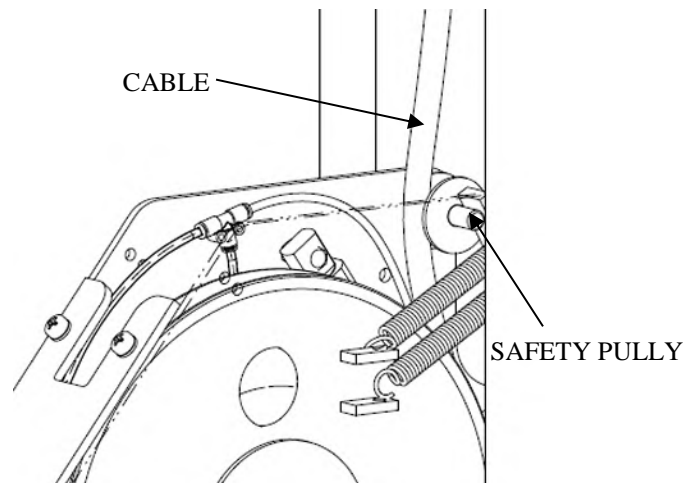
**NOTE:** Level bubble should not only be between the lines, the bubble should be centered between the lines. If the provided shims do not allow sufficient centering of the bubble, it is best to lean the rear columns in the direction toward each other and the front columns in the direction toward each other.

## 7.6 CABLE INSTALLATION

- Install the four cable ends with two 7/8-9 nut, **Figure 15**.
- Route the cable in front of safety pulley at all four corners, **Figure 16**.



**Figure 15**

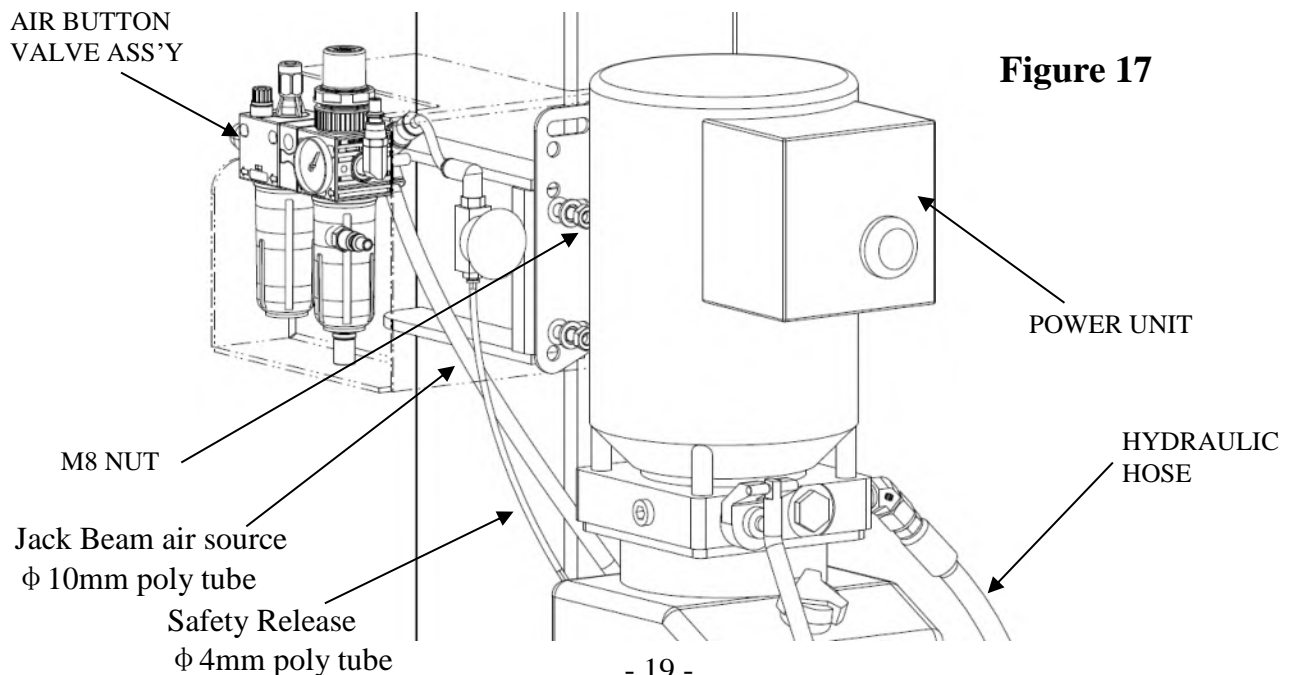


**Figure 16**

## 7.7 POWER UNIT AND AIR BUTTON VALVE ASS'Y INSTALLATION

- Mount the air button valve assembly on the power column first, then mount the power unit on the **same studs** and lock with M8 nuts, **Figure 17**.
- Prior to connect the hydraulic hose, please refer to **APPENDIX – B** for adding hose protection (long black cloth sheath in accessory box) on hydraulic hose and poly tubes.
- Install O-Ring end of 45-degree hydraulic elbow (9/16-18 O-Ring x 37 Male JIC) to power unit output port. The hydraulic hose is pre-installed to the hydraulic cylinder and secured inside the runway. Pull loose end out through 1 1/2" x 4 1/2" slot in the side of the power runway near the power unit and attach to the elbow fitting, **Figure 17**.
- Pull loose end out of Jack Beam air source  $\phi$ 10mm tube through 1 1/2" x 4 1/2" slot in the side of the power runway near the power unit and attach to tee  $\phi$  10 poly tube of Air Button Valve Assembly, **Figure 17**.
- Have a certified electrician connect the power unit to a suitable electrical power source as shown in **Figure 18**.

- **Be Certain All Fittings and Connections are Tight. It is the installers responsibility to ensure system is leak-free.** Fill the Power Unit with three gallons of clean ISO 32 (10 weight) hydraulic oil. **Do Not Use Oils with any detergent additives.**
- Energize the power unit and raise the lift approximately 1 ft off the ground and look underneath the power runway to verify that the cable lugs are resting firmly against the cylinder pull bar.
- Install 4mm safety release poly tubes from air valve assembly thru opening in runway to Tee fitting, **Figure 17.**
- Pull out all 4mm release poly tube stored inside cross beam, route power side front and rear cross beam poly tubes through power runway to Tee fitting. Route idler side front and rear cross beam poly tubes through idler runway and connect together with 4mm poly tube splice provided. Route poly tubes through welded rings on the outside internal edge of runways, **Figures 17, 19 and 20.**
- Remove the lubricator cap from lubricator and fill with Snap-on Air Tool oil or equivalent, reservoir should be 80% full. Connect air source to the filter and adjust the pressure to 90 - 120 PSI (6 - 8 Bar, 0.6 - 0.8 MPa). Adjust the drop speed to be 2-3 drops per minute.
- **Air supply must be clean, dry, lubricated, and regulated to 90-120 psi (6 - 8 Bar, 0.6 - 0.8 MPa). Failure to provide clean, dry, lubricated, and pressure regulated air will void warranty on pneumatic components.**
- Energize air valve assembly and make sure that all air cylinders are working properly.
- Level the runways and crossbeams using laser level and height gauge. With the lift resting in its locks, place the laser level at appropriate location. Place height gauge at all four corners of cross beams and adjust location of laser level to ensure all four corners are within laser range. Find the highest corner and adjust the other three column ladder bars until reach the same reading from height gauge of all four corners. Tighten jam nut against bottom side of each column top plate.
- Adjust cables until all four cables are tight and locks synchronized when lift is raised. (One should be able to hear a click sound when lock engages, all four engage sound should happen at the same time.) Tighten cable jam nuts against adjustment nuts.
- Raise and lower lift several times to bleed hydraulic cylinder. Hydraulic cylinder is self-bleeding. Lower lift and check fluid level in reservoir. Add fluid as needed.
- Run lift to full rise and continue running motor approximately 5 more seconds. Check hydraulic hose and connections for leaks. Re-tighten fitting if leaking.

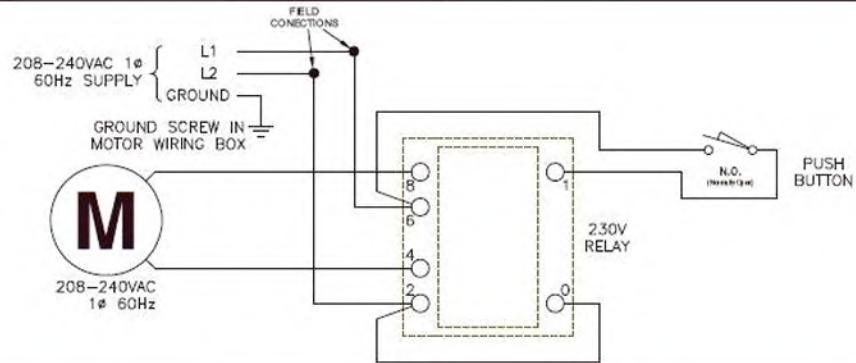


# Wiring Diagram

EACH LIFT SHOULD HAVE A DEDICATED CIRCUIT WITH  
A DOUBLE POLE BREAKER OR TIME DELAY FUSE  
SIZED ACCORDING TO THE FOLLOWING CHART

	1 $\phi$
	208-240V
2Hp	30amp

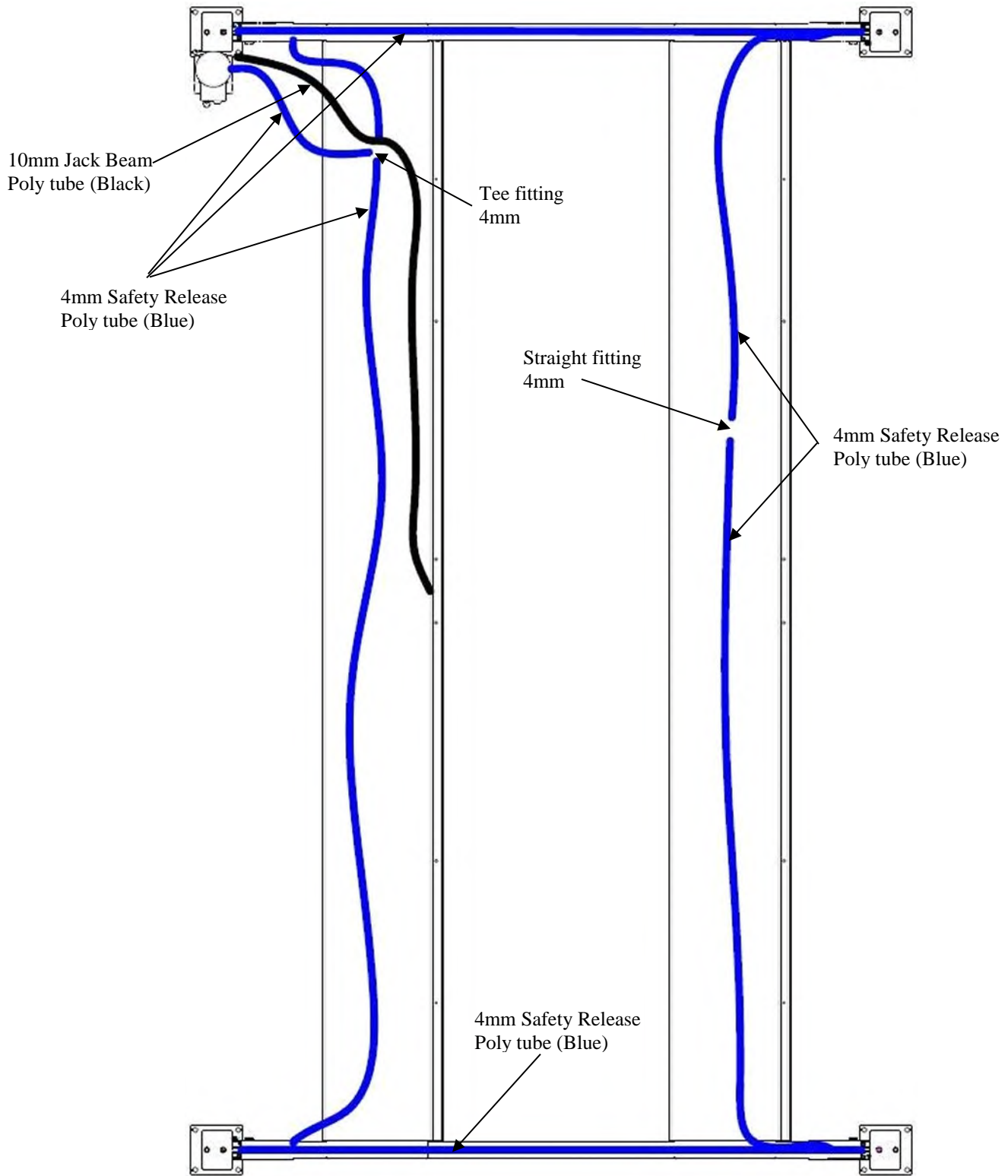
\* WIRING MUST COMPLY WITH ALL LOCAL ELECTRICAL CODES \*



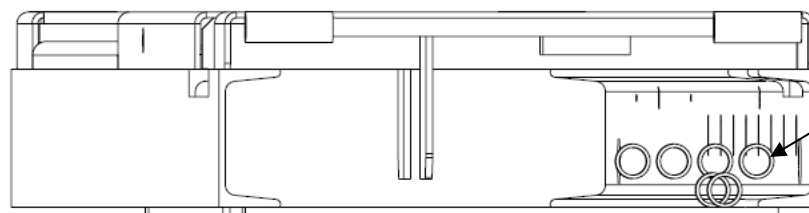
NOTES:

- 1) MOTOR IS FACTORY WIRED FOR 208V OR 220-240V SUPPLY
- 2) CONTACTOR COIL RATING MUST MATCH SUPPLY VOLTAGE (208V, 220-240V)
- 3) CONTACTOR MUST BE FIELD MOUNTED ON POWER COLUMN (CENTERED SIDE-TO-SIDE TO AVOID INTERFERENCE WITH SLIDE BLOCKS)
- 4) MOTOR ROTATION IS COUNTER CLOCKWISE FROM TOP OF MOTOR

**Figure 18**



**Figure 19 – Poly tube route**

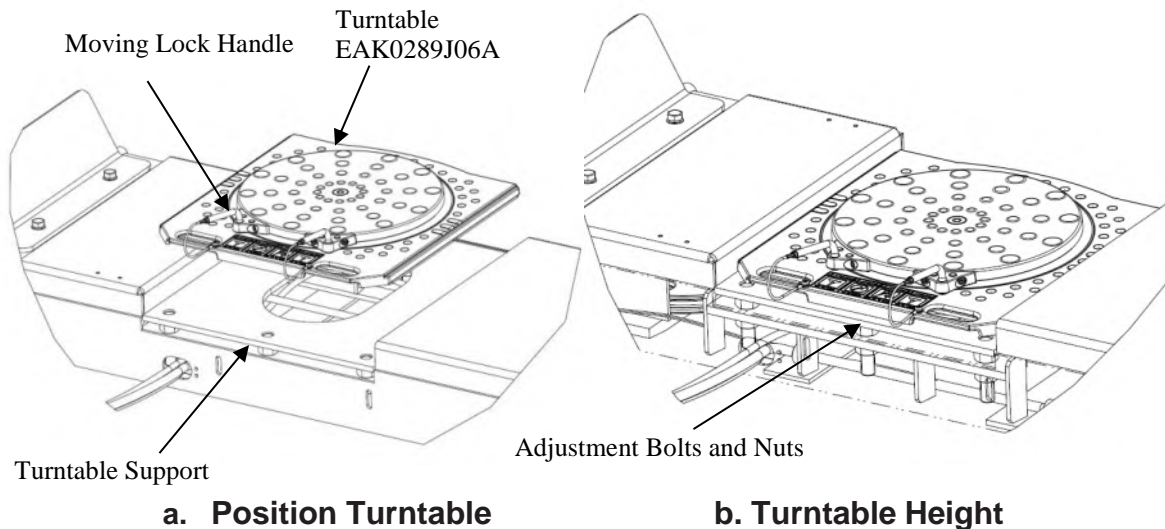


**Welded Rings**  
All poly tube should route through these rings if available

**Figure 20**

## 7.8 INSTALL FRONT TURNTABLES

1. Position the lift at a comfortable working height and lower onto a mechanical safety lock.
2. Place each front turntable assembly on the front alignment pan of the runway. Moving lock handles of the turntables should be oriented to the outside of lift, See **Figure 21 (a)**.
3. If the surface of turntable is not flat with the runway, the turntable support can be adjusted to level with runway by using the 6 adjustment bolts under the support plate. See **Figure 21 (b)**. Tighten the jam nuts on the adjusting screws after adjusting.
4. Verify that the turntable assembly is completely seated in the front alignment pan. Gently slide each turntable in the alignment pan, left and right, to verify that they can be positioned for different car widths.

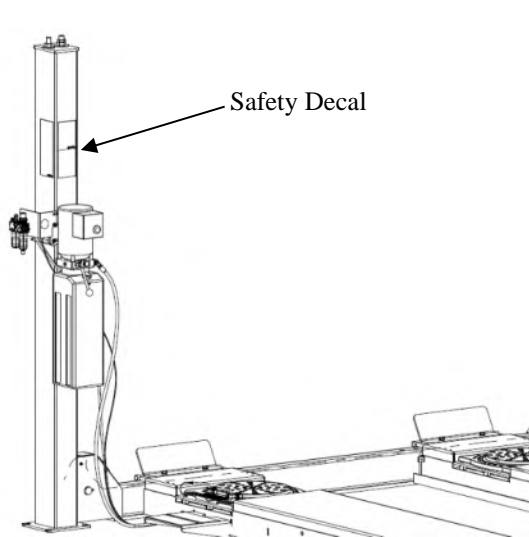


**Figure 21 - Turntable Position and Adjustment**

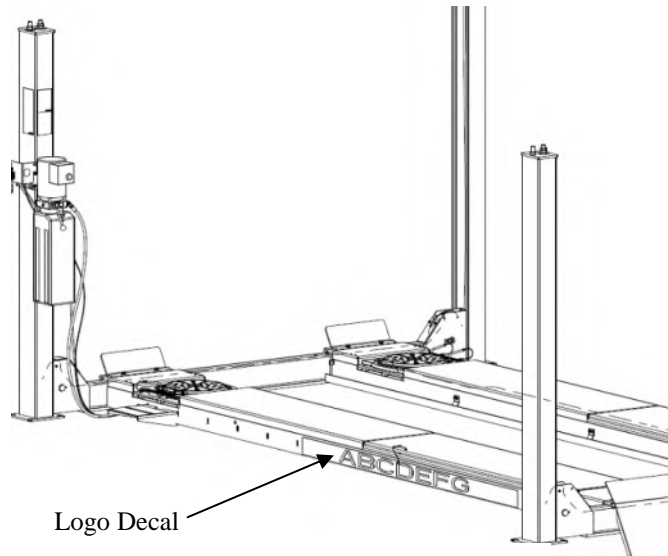


## 7.9 DECAL PLACEMENT

- Clean the column surface before placing any decals.
- Install safety decals (NOTICE / CAUTION / WARNING) at the power unit as shown in **Figure 22** below. An illustration of these safety decals can be found on page 4.



**Figure 22 - Safety Decal Placement**



**Figure 23 - Logo Decal Placement**

- Place a logo decal on the outside deck as shown in **Figure 23**.
- NOTE:** Logo decal may cover some step holes on the side of decks.

## 8. OWNER/USER CHECKLIST

**SAVE THESE INSTRUCTIONS** deliver them to owner/user/employee along with other materials furnished with this lift.

Demonstrate the operation of the lift to the owner/operator and review correct and safe lifting procedures using the **Lifting It Right** booklet as a guide.

Complete the Installation Checklist/Warranty Validation questionnaire with the owner.

Review the terms of the warranty registration card, and return the card and a copy of the questionnaires to:

**Snap-on Equipment**  
309 EXCHANGE AVENUE  
CONWAY, ARKANSAS, 72032

## 9. OPERATION PROCEDURE

### Safety Notices and Decals

This product is furnished with graphic safety warning labels, which are reproduced on page 3 of these instructions. **Do not remove or deface these warning labels or allow them to be removed or defaced. For your safety, and the safety of others, read and understand all the safety notices and decals included.**

### Owner/User Responsibilities

This lift has been designed and constructed according to ANSI/ALI ALCTV-2017 standard. The standard applies to lift manufactures, as well as to owners and employees. The owner/employee's responsibilities as prescribed by ANSI/ALI ALOIM-2013, are summarized below. For exact wording refer to the actual standard provided with this manual in the literature pack.

**The Owner/User shall** ensure that lift operators are qualified and that they are trained in the safe use and operation of the lift using the manufacturer's operating instructions; ALI/SM 93 -1, ALI Lifting it Right safety manual; ALI/ST-90 ALI Safety Tips card; ANSI/ALI ALOIM-2013, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; ALI/WL Series, ALI Uniform Warning Label Decals/Placards; and in case of frame engaging lifts, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts.

**The Owner/User shall** establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2013, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and the User shall ensure that the lift inspectors are qualified and that they are adequately trained in the inspection of the lift.

**The Owner/User shall** establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2013, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and the User shall ensure that the lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.

**The Owner/User shall** maintain the periodic inspection and maintenance records recommended by the manufacturer or ANSI/ALI ALOIM-2013, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance.

**The Owner/User shall** display the lift manufacturer's operating instructions; ALI/SM 93 -1, ALI Lifting it Right safety manual; ALI/ST-90 ALI Safety Tips card; ANSI/ALI ALOIM-2013, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and in the case of frame engaging lift, ALI/LP-GUIDE, Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts; in a conspicuous location in the lift area convenient to the operator.

## **IMPORTANT SAFETY INSTRUCTIONS**

When using your garage equipment, basic safety precautions should always be followed, including the following:

1. Read all instructions.
2. Care must be taken as burns can occur from touching hot parts.
3. To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline).
4. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
5. Use only as described in this manual. Use only manufacturer's recommended attachments.
6. ALWAYS WEAR SAFETY GLASSES. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses.

## **SAVE THESE INSTRUCTIONS**

### **Lifting a Vehicle**

Drive vehicle onto lift. Set parking brake and/or use wheel chocks that are provided with lift. When the vehicle has reached the desired working height, release the power pack button, and lower the vehicle until the safety locks are engaged. The vehicle should remain level when all locks are engaged. If one side engages and the other continues to descend, stop lowering the vehicle, raise it several inches, and try again to engage locks.

**IMPORTANT**, before walking under the lift ensure that all locks are properly engaged. It is not safe to work under the vehicle unless all locks are engaged, and the vehicle is level.

### **Lowering a Vehicle**

Ensure that the area under the vehicle is clear of personnel and tools.



Raise the vehicle until locks are free.

Disengage the locks by depressing the palm button and holding it.

Lower the vehicle by depressing the lowering valve handle. Watch lift to ensure that the lift is lowering evenly. If not, raise lift and check all locks to ensure they are disengaged before trying to lower lift again.

Continue to lower the vehicle until the crossbeams stop against the base plate. It is important to fully lower the lift to release hydraulic pressure on the system.

## **Loss of Power**

If for any reason, the lift will not raise off the locks or the locks will not retract, consult factory authorized personnel.

**DO NOT OVERRIDE ANY SAFETY FEATURE IN AN ATTEMPT TO LOWER THE LIFT.**

## **Maintenance**

To avoid personal injury, permit only qualified personnel to perform maintenance on this equipment. Maintenance personnel should follow lockout/tagout instructions per ANSI Z244.1.

The following maintenance points are suggested as the basis of a routine maintenance program. The actual maintenance program should be tailored to the installation. See ANSI/ALI ALOIM booklet for periodic inspection checklist and maintenance log sheet.

If lift stops short of full rise or chatters, check fluid level and bleed both cylinders per Installation Instructions.

When lift is not being used for a period of time (over night or weekend), lift the runways in the mid to upper position in order to allow air flow under runways and not allow moisture to build on cables and pulleys. This will prevent premature failure of components.

- Replace all Safety, Warning or Caution Labels if missing or damaged. (***See Installation instructions page 3.***)

## **Daily**

- Keep lift components clean. **To keep alignment lifts with rear slip plates working properly use compressed air to blow out any debris from the bearing area.**
- Check for loose or broken parts.
- Check hydraulic system for fluid leaks.
- Check lock release activation.

## **Weekly**

- Check cables and pulleys for wear or damage. Replace as required with genuine parts.
- Inspect lock mechanism for proper function.

## **Monthly**

- Torque concrete anchor bolts to 80 ft-lbs.
- Clean and inspect cables and pulleys for wear or damage. Lubricate cables and pulleys with light oil.
- Visually inspect concrete floor for cracks and/or spalls within 12" of base plate  
**IMPORTANT! Failure to keep lift free of corrosive agents and solvents will lead to reduced service life, which could result in property damage and/or personal injury.**  
**If any problems are encountered, contact your local service representative.**

# 10. PARTS LIST

## 10.1 LIFT ASSEMBLY

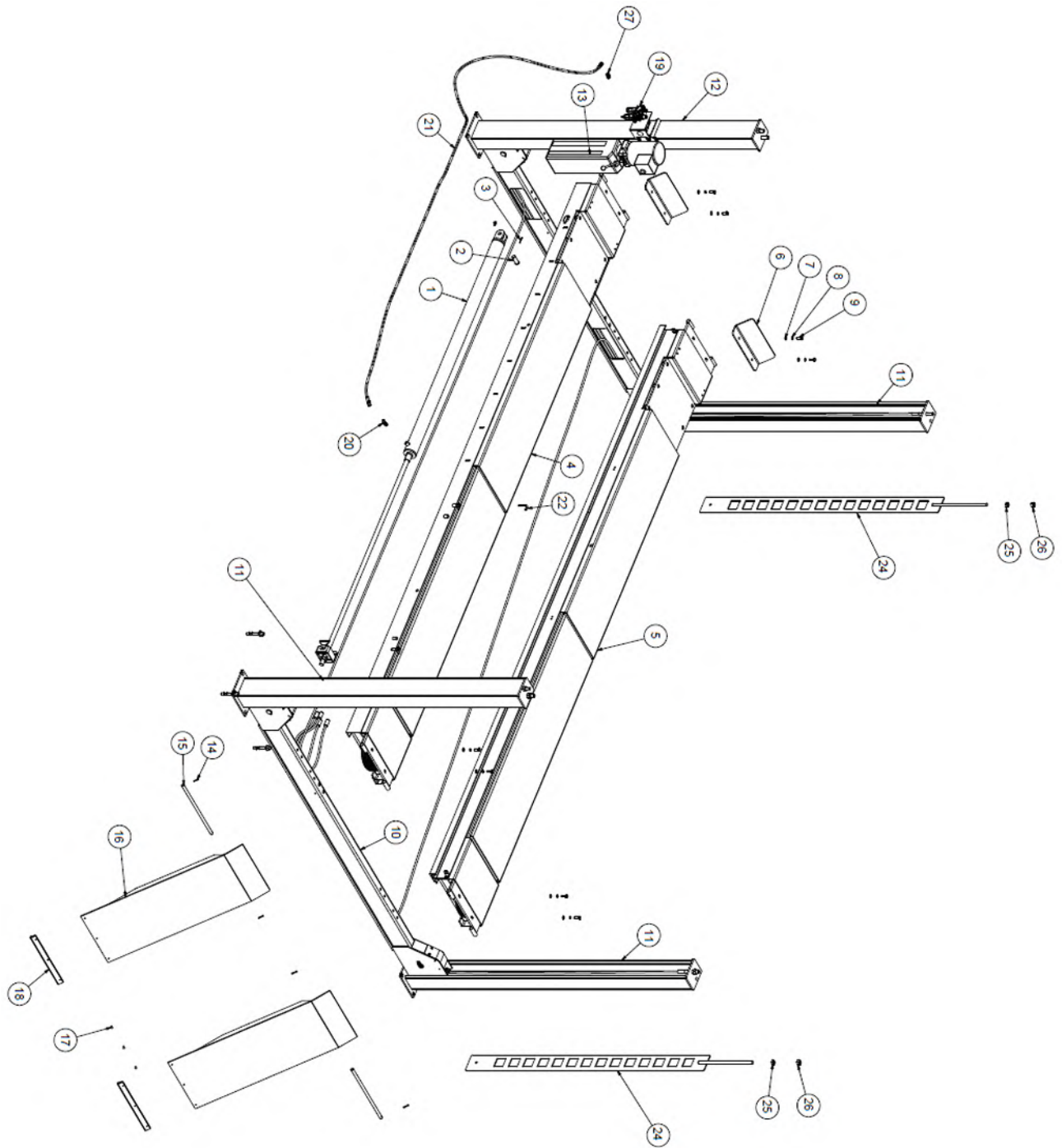
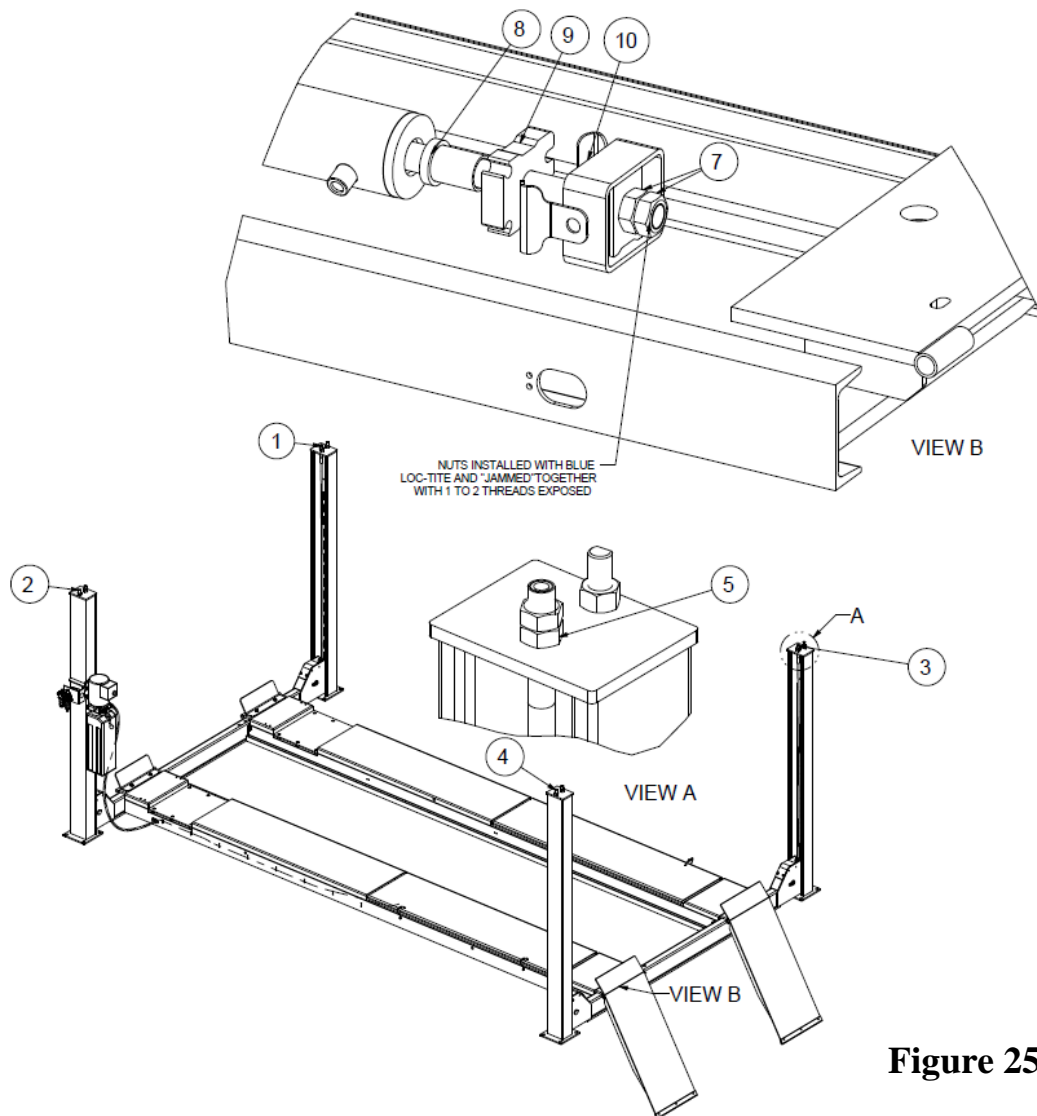


Figure 24

ITEM#	SOE PART#	QTY	DESCRIPTION
1	EAH0068V20A	1	PULL TYPE CYLINDER
2	EAM0155V91A	1	CYLINDER BOTTOM SHAFT
3	1-06787A	1	D3.2X36 COTTER PIN GB/T91-2000
4	EAM0155V41A	1	DECK LS
5	EAM0155V84A	1	DECK RS
6	EAM0155V83A	2	FRONT WHEEL STOP
7	1-01588A	8	FLAT WASHER n 12 GB/T95-2002
8	1-01688A	8	SPRING WASHER D12 GB/T93-1987
9	1-10088A	8	M12 x 40mm LG HEX HEAD SCREW
10	EAA0485V03A	2	CROSSBEAM ASSEMBLY
11	EAA0485V01A	3	IDLER COLUMN ASSEMBLY.
12	EAA0485V02A	1	POWER COLUMN ASSEMBLY.
13	EAA0485V14A	1	POWERPACK UNIT
14	B40126	4	3mm x 38mm LG COTTER PIN 3mm x 38mm LG COTTER PIN
15	40165	2	PIN
16	EAS2205V10A	2	APPROACH RAMP WELDMENT
17	6-4014CN	6	BLIND RIVET D6.4X20L
18	B40168-P	2	4P12, 4P14 FLOOR PROTECTOR
19	EAA0485V16A	1	RELEASE VALVE ASSEMBLY
20	EAH0075V12A	1	45° ELBOW FITTING 9/16-9-16 O-RING
21	EAA0485V15A	1	HYDRAULIC HOSE ASSEMBLY
22	9-0288	4	PIN LOCKING-SLIP PLATE
24	EAS2205V02A	4	SAFETY LADDER WELDMENT
25	1-22988A	4	M20 HEX JAM NUT GB6172.1-2000
26	1-04088A	4	NUT GB/T 6170 M20
27	EAH0075V34A	1	90 ANGLE FITTING, 9/16

Replace all worn, damaged, or broken parts with parts approved by Snap-on Equipment.  
Contact 1-800-225-5786

## 10.2 CABLES

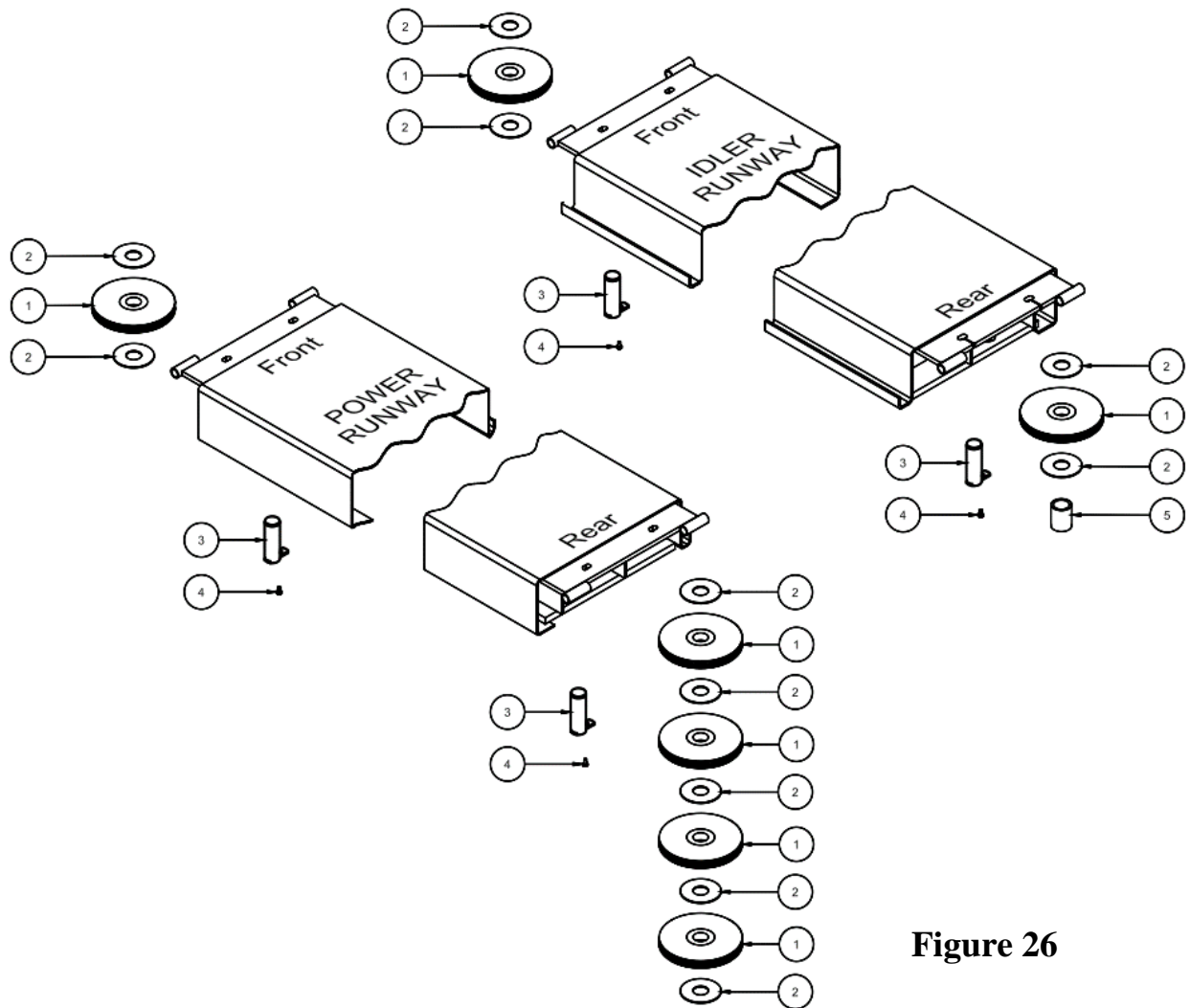


**Figure 25**

ITEM#	SOE PART#	QTY	DESCRIPTION
1	EAA0485V10A	1	STEEL ROPE FRONT RIGHT ASSY
2	EAA0485V09A	1	STEEL ROPE FRONT LEFT ASSY
3	EAA0485V11A	1	STEEL ROPE REAR RIGHT ASSY
4	EAA0485V08A	1	STEEL ROPE REAR LEFT ASSY
5	1-23288A	8	HEX NUT 7/8-9 UNC ZINC
7	1-23388A	2	M27 HEX JAM NUT
8	EAS2194V05A	1	SLEEVE TUBE WELDMENT
9	EAM0155V81A	1	CABLE RETAINER STRAP
10	EAM0155V79A	1	CABLE RETAINER WELD

Replace all worn, damaged, or broken parts with parts approved by Snap-on Equipment.  
Contact 1-800-225-5786

### 10.3 RUNWAY PULLEYS

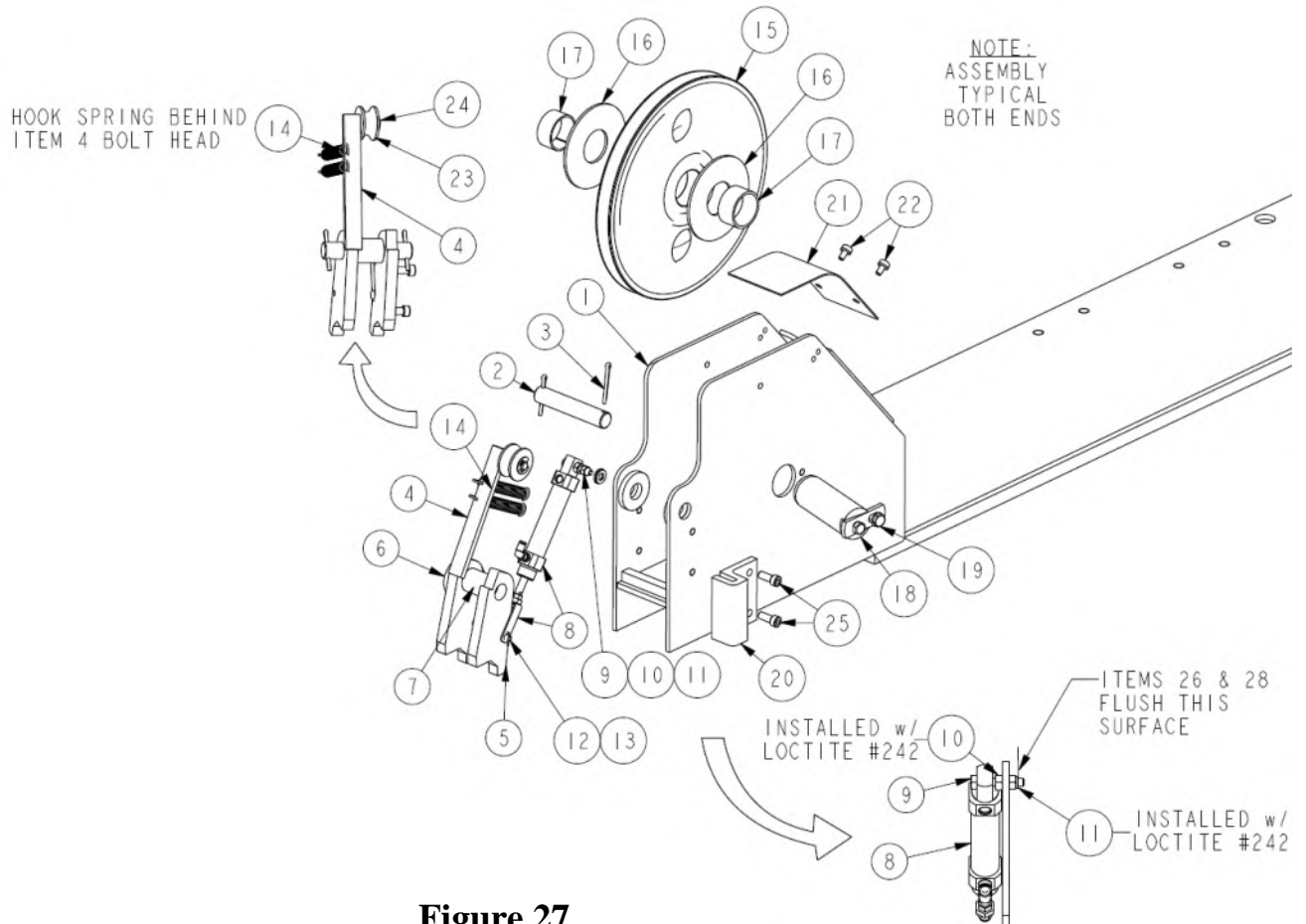


**Figure 26**

ITEM#	SOE PART#	QTY	DESCRIPTION
1	EAM0155V75A	11	PULLEY ASSEMBLY WITH BUSHING
2	EAM0155V74A	19	PULLY WASHER
3	EAM0155V71A	4	DECK PULLEY SHAFT WELDMENT
4	1-26988A	8	HEX BOLT M8X20 GB/T5781-2000
5	EAM0155V88A	1	STANDING BUSHING

Replace all worn, damaged, or broken parts with parts approved by Snap-on Equipment.  
Contact 1-800-225-5786

## 10.4 CROSS BEAM



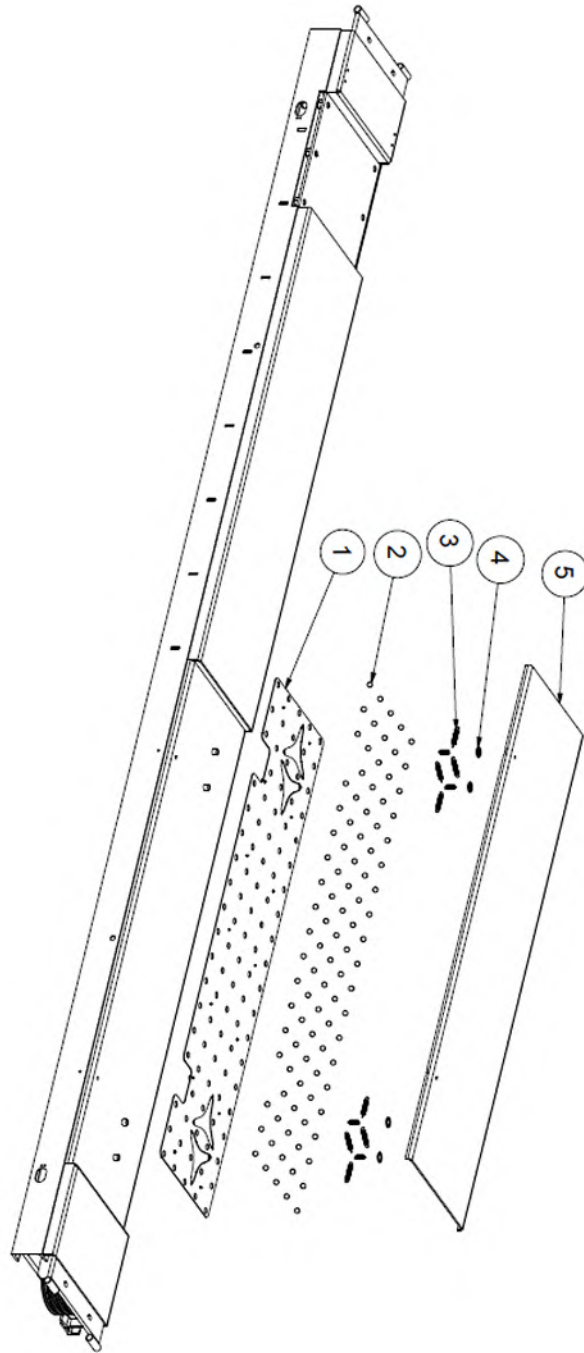
**Figure 27**

ITEM#	SOE PART#	QTY	DESCRIPTION
1	EAS2205V04A	2	CROSSBEAM WELDMENT
2	EAM0155V29A	4	SAFETY LOCK PIN
3	1-02487A	8	COTTER PIN
4	EAS2205V07A	4	SAFETY LOCK WELDMENT
5	EAM0155V30A	4	SAFETY DOG
6	EAM0155V20A	8	SAFETY WASHER
7	EAM0155V32A	4	SAFETY LOCK SPACER
8	EAA0485V05A	4	AIR CYLINDER ASSEMBLY
9	1-23688A	4	M6 x 35mm LG HEX HEAD SCREW
10	1-27133A	4	M6 NUT GB/T41-2000
11	1-22288A	4	NYLON LOCKNUT M6, GRADE 8 GB/T 889.1-2000
12	1-04887A	4	CLEVLIS PINS WITH HEAD
13	1-06687A	4	D2X10 COTTER PIN GB/T91-2000
14	EAM0155V39A	8	HANDLE SPRING
15	EAM0155V75A	11	PULLEY ASSEMBLY
16	EAM0155V74A	19	PULLY WASHER
17	EAM0155V26A	8	CROSSBEAM PULLEY SPACER
18	EAS2205V06A	4	PULLEY SHAFT WELDMENT

19	1-03515A	4	M8 x 16mm LG HEX HEAD SCREW
20	EAM0155V34A	8	SLIDE GUIDE BLOCK
21	EAM0130T59A	4	PULLEY COVER
22	1-23588A	8	CROSS RECESSED PAN HEAD TAPPING SCREWS GB845-85-ST6.3X12-F-H
23	EAM0155V33A	4	SAFETY PULLEY
24	1-04987A	4	RETAINING RING 9 GB/T 896-86
25	1-03488A	16	SOCKET HEAD CAP SCREW M8*16 GB/T70.1-2008

Replace all worn, damaged, or broken parts with parts approved by Snap-on Equipment.  
Contact 1-800-225-5786

## 10.5 SLIP PLATE ASSEMBLY



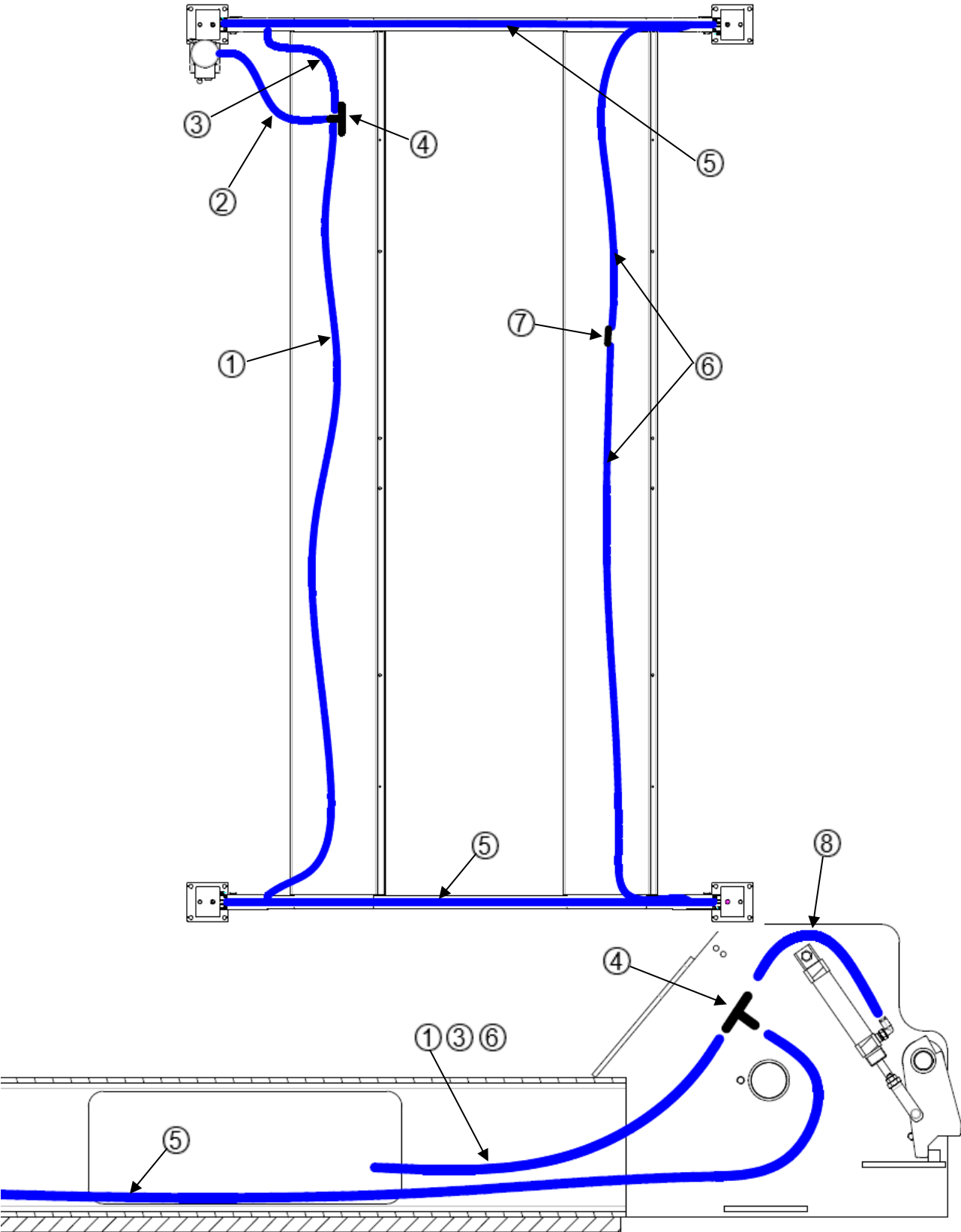
**Figure 28**

ITEM#	SOE PART#	QTY	DESCRIPTION
1	40525	2	BALL RETAINER ASSEMBLY
2	40211	196	SLIP PLATE BALL
3	40221	24	EXTENSION SPRING
4	1-27888A	8	LOCK WASHER INTERNAL TEETH
5	EAS2205V13A	2	REAR SLIP PLATE WELDMENT

Replace all worn, damaged, or broken parts with parts approved by Snap-on Equipment.  
Contact 1-800-225-5786

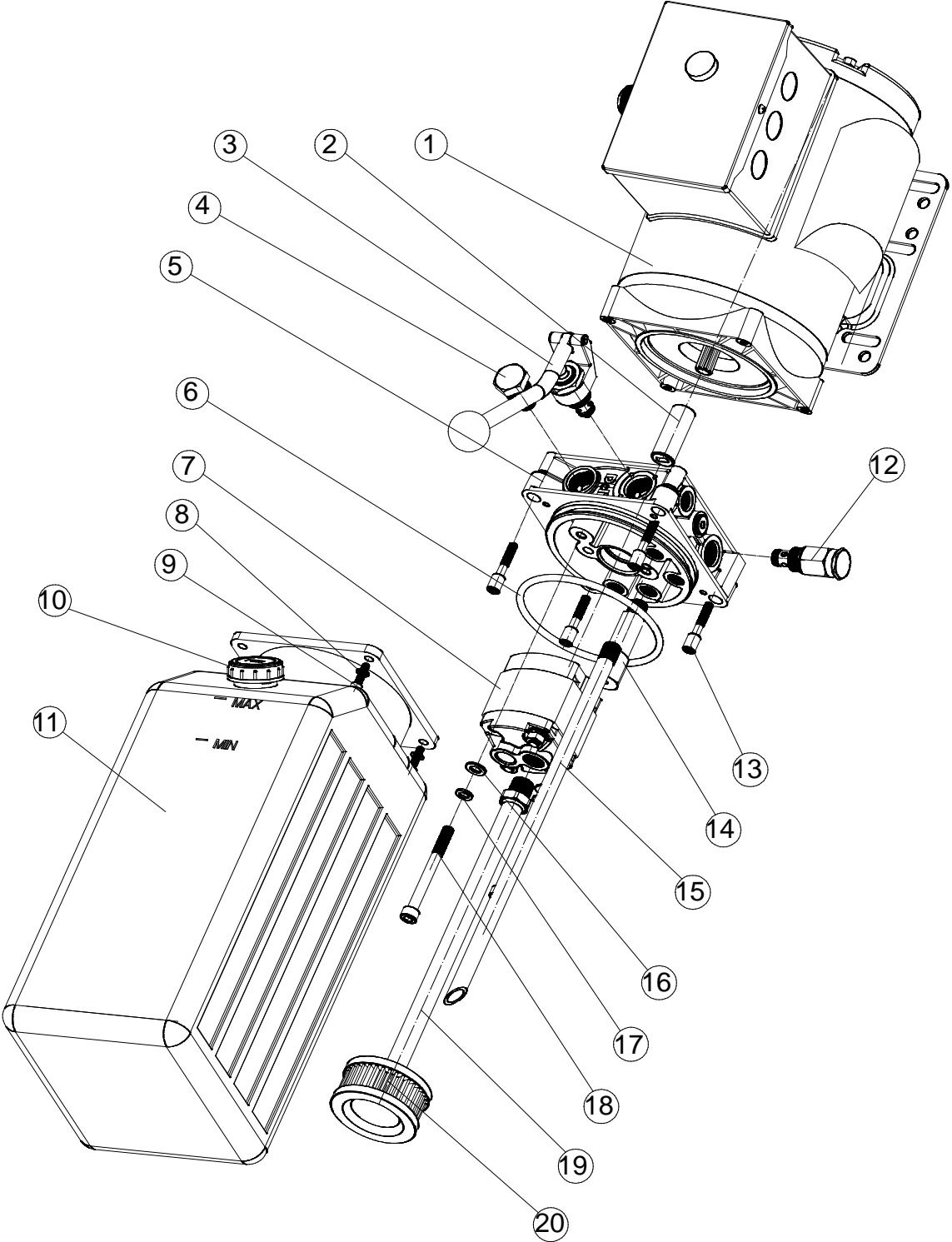


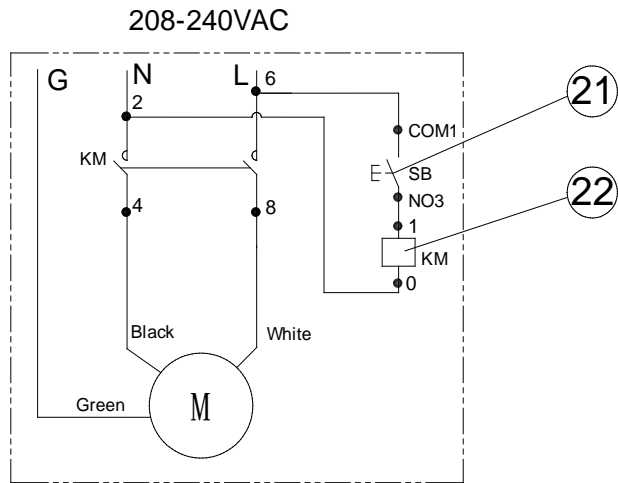
10.6 RELEASE POLYTUBE SYSTEM



ITEM#	SOE PART#	QTY	DESCRIPTION
1	EAH0075V08A	1	4mm AIR TUBE RELEASE LS-5400
2	EAH0075V11A	1	4mm AIR TUBE RELEASE -3050
3	EAH0075V09A	1	4mm AIR TUBE RELEASE LS-1100
4	EAH0060V24A	5	D4 UNION TEE
5	EAH0075V10A	2	4mm AIR TUBE CROSSBEAM 2850
6	EAH0075V07A	2	4mm AIR TUBE RELEASE RS 3200
7	EAH0075V05A	1	4mm STRAIGHT FITTING
8	EAH0075V06A	4	4mm AIR TUBE RELEASE-230

10.7 POWERPACK UNIT





ITEM#	SOE PART#	QTY	DESCRIPTION
1	EAK0359V22A	1	AC MOTOR
2	EAK0359V24A	1	COUPLING
3	EAK0359V20A	1	RELEASE VALVE
4	EAK0359V19A	1	CHECK VALVE
5	EAK0359V14A	1	ENDHEAD
6	1-08887A	1	O-RING
7	EAK0359V17A	1	GEAR PUMP
8	1-01988A	4	WASHER $\Phi 5$
9	1-36588A	4	HEX SOCKET CAP SCREW M5 $\times$ 18
10	EAK0359V28A	1	TANK CAP
11	EAK0359V27A	1	TANK
12	EAK0359V21A	1	RELIEF VALVE
13	1-31279A	4	HEX SOCKET CAP
14	EAK0359V18A	1	BUFFER VALVE
15	EAK0359V26A	1	RETURN TUBE
16	1-00688A	2	WASHER $\Phi 8$
17	1-00988A	2	SPRING WASHER $\Phi 8$
18	1-31379A	2	HEX SOCKET CAP SCREW M8 $\times$ 75
19	EAK0359V25A	1	SUCTION TUBE
20	EAK0359V23A	1	SUCTION FILTER
21	EAK0359V16A	1	START BUTTON
22	EAK0359V15A	1	CONTACTOR

## 11. ACCESSORY

### 11.1 TURNTABLES

ITEM#	PART#	DESCRIPTION	QTY.
1	EAK0289J06A	TURNTABLE (OPTIONAL)	2
2	EAK0277J28A	PADDLE KIT, TT (OPTIONAL)	2

### 11.2 JACK BEAM AND ACCESSORY

ITEM#	PART#	DESCRIPTION (OPTIONAL)	QTY.
1	EELS900A	6K JACK BEAM (OPTIONAL)	1

### 11.3 SHIM KIT

ITEM#	PART#	DESCRIPTION	QTY.
1	6-0739	LIFT SHIM KIT (included)	32

### 11.4 WORK STEP

ITEM#	PART#	DESCRIPTION	QTY.
1	JBC22119CN00	WORKSTEP ASSEMBLY	2

### 11.5 DRIVE THROUGH KIT

ITEM#	PART#	DESCRIPTION	QTY.
1	EAK0359V12A	APPROCH RAMP KIT (OPTIONAL) (Include two complete set of ramps)	1

### 11.6 WHEEL CHOCK

ITEM#	PART#	DESCRIPTION	QTY.
1	EAC0079J62A	WHEEL CHOCK (Included)	2

**APPENDIX – A**

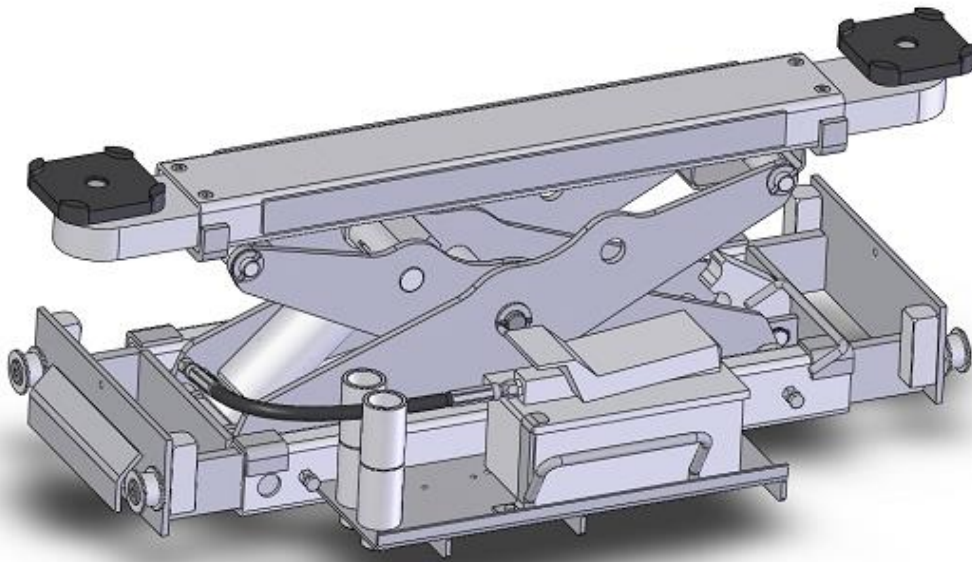
Installation, Operation & Maintenance Manual for Jack Beam

# MODEL EELS900A

## ROLLING JACK

(Model EELR528A / EELR727A Series 4-Post)

6000 lbs. Capacity



309 EXCHANGE AVENUE, CONWAY, ARKANSAS, 72032

TEL: 501-450-1500 FAX: 501-450-1585

# IMPORTANT: READ THIS MANUAL COMPLETELY BEFORE INSTALLING or OPERATING JACK

Jack Beam Installation, Operation and Maintenance Manual

## CAUTION

- ◆ Before using this product, read and fully understand the operating instructions and all decals on the product. This is necessary to prevent injury to the operator and damage to the product.
- ◆ Roll jack forward before moving vehicle on or off lift.
- ◆ Do not attempt to use this jack for anything other than its intended purpose.
- ◆ If jack begins to tilt as the vehicle is raised, STOP! Lower jack and re-position the vehicle.
- ◆ Do not use this jack if it is visibly worn, distorted or damaged.
- ◆ Maximum air operating pressure not exceed 150 psi.
- ◆ Always wear appropriate eye protection.
- ◆ Always keep the jack pad lifting point in the center of the pad.
- ◆ When using the extension adapters, make sure that care is taken to not let the jack shift due to the tolerance of the adapters.

## WARNING

- ◆ Lifting capacity of this jack is 6000lbs (Hydraulic Pressure at Cap. = 3770 psi) Exceeding this could result in severe personal injury or death.
- ◆ When the total lifting capacity of 2 rolling jacks differs from the rated capacity of the lift they are used on, the capacity of each jack should not exceed 1/2 the total capacity of the runways. Exceeding this could result in severe personal injury or death.
- ◆ Lift vehicle at manufacturer's recommended pick-up points only. Vehicle weight must be evenly distributed on each jack lift pad.
- ◆ Keep fingers and hands clear of all pinch points at all times.

## Installation, Operation & Maintenance Manual for Jack Beam

### SPECIFICATIONS:

Capacity	<b>6,000 lbs.</b>	<b>2725 kg</b>
Minimum Arm Reach	<b>33"</b>	<b>838 mm</b>
Maximum Arm Reach	<b>50-3/16"</b>	<b>1275 mm</b>
Minimum Lowered Height above Deck Surface	<b>3-1/8"</b>	<b>78.5 mm</b>
Maximum Raised Height above Deck Surface	<b>13-1/8"</b>	<b>332.5 mm</b>
Power Requirements @ 20 in <sup>3</sup> /min (flow rate)	<b>90-120 psi</b>	<b>6-8 bar</b>
Maximum Operating Pressure @ Rated Load	<b>4060psi</b>	<b>280 bar</b>
Shipping Weight	<b>308 Lbs.</b>	<b>140 Kg.</b>

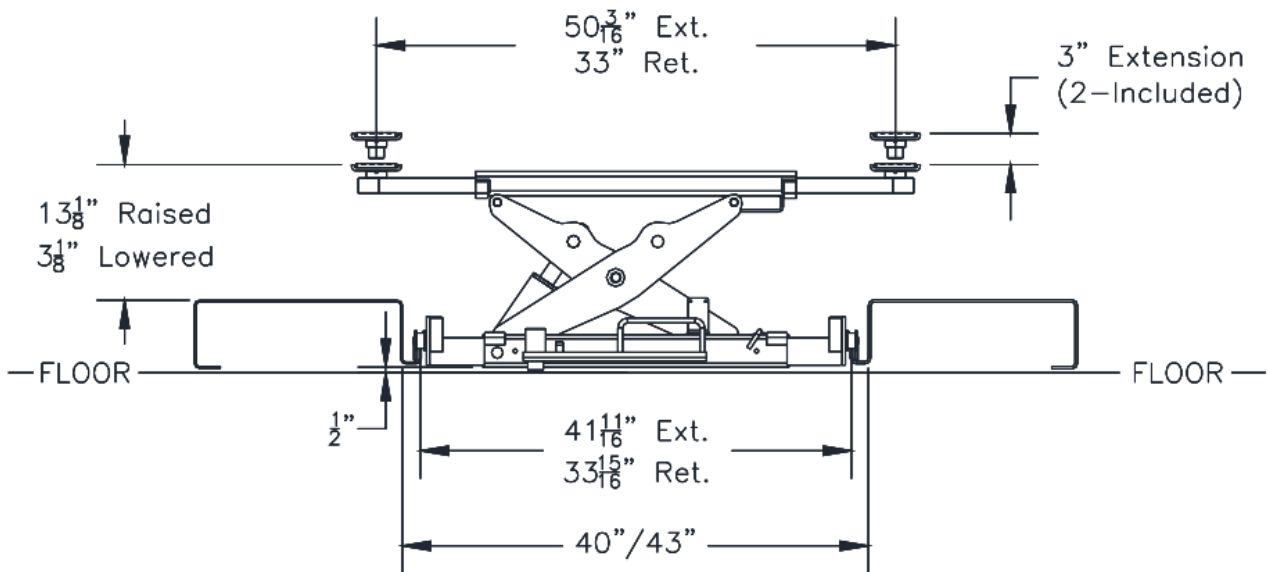


Fig. 1

### INSTALLATION

- 1) Place jack assembly on lift rack rails.
- 2) Install Jack Beam air supply kit, see details in **Appendix B**
- 3) Once side members are adjusted and jack is centered between the rails, tighten the (4) hex bolts (2 per side) to lock in place, Fig 2.

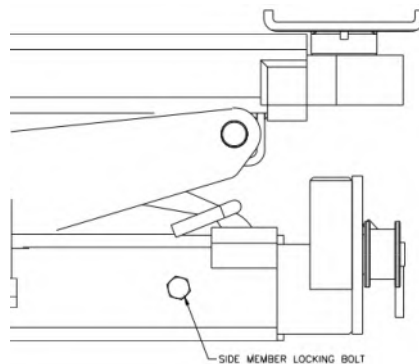




Fig. 2

## **Operation**

**Note:** Before lifting a vehicle, operate the jack through a couple of cycles to become familiar with the controls.

- 1) Roll jack forward before moving vehicle on lift rack. Be sure vehicle is centered on rack, apply parking brake and chock wheels.
- 2) Roll jack(s) to the vehicle manufacturer's recommended pick-up points. Extend lift pad arms to proper lift points. Use lift pad spacers if necessary.
- 3) Raise jack by pushing on foot pedal on pump.
- 4) Raise vehicle to desired height.
- 5) Lower jack onto lock.
- 6) To lower jack completely, raise off of lock and while holding lock release handle open lower jack. Push lift pad arms in, remove lift pad spacers (if used). Roll jack forward before moving vehicle off rack.

## **Loss of lifting power**

If for any reason the lift will not raise off the locks or the locks will not retract, consult factory authorized personnel.

**DO NOT OVERRIDE ANY SAFETY FEATURE IN AN ATTEMPT TO LOWER THE LIFT.**

## **Maintenance**

**Daily:** Inspect jack and its components for damage or excessive wear. Replace parts as required. See parts list.

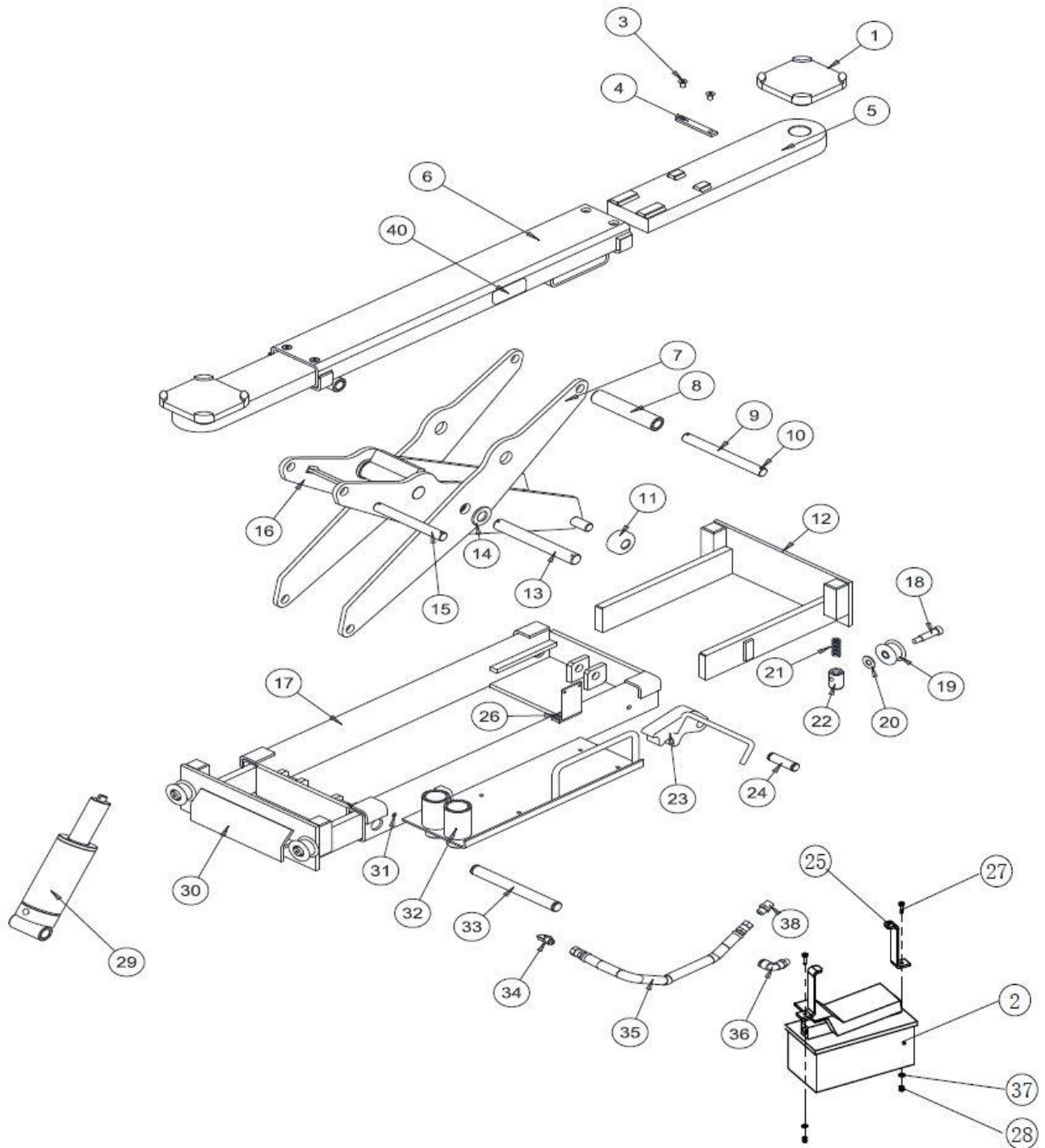
Inspect air/hydraulic system for leaks. Check in-line lubricator oil level.  
Exhaust water from Filter.

**Annually:** Check hydraulic pump fluid level. When jack is completely lowered remove breather plug and check oil level. Oil should be at top of filler plug hole. Exhaust water from Filter.

## **IMPORTANT!**

Failure to keep lift free of corrosive agents and solvents will lead to reduced service life, which could result in property damage and/or personal injury. If any problems are encountered, contact your local service representative 1-800-225-5786

Parts Breakdown



## Jack Beam Installation, Operation and Maintenance Manual

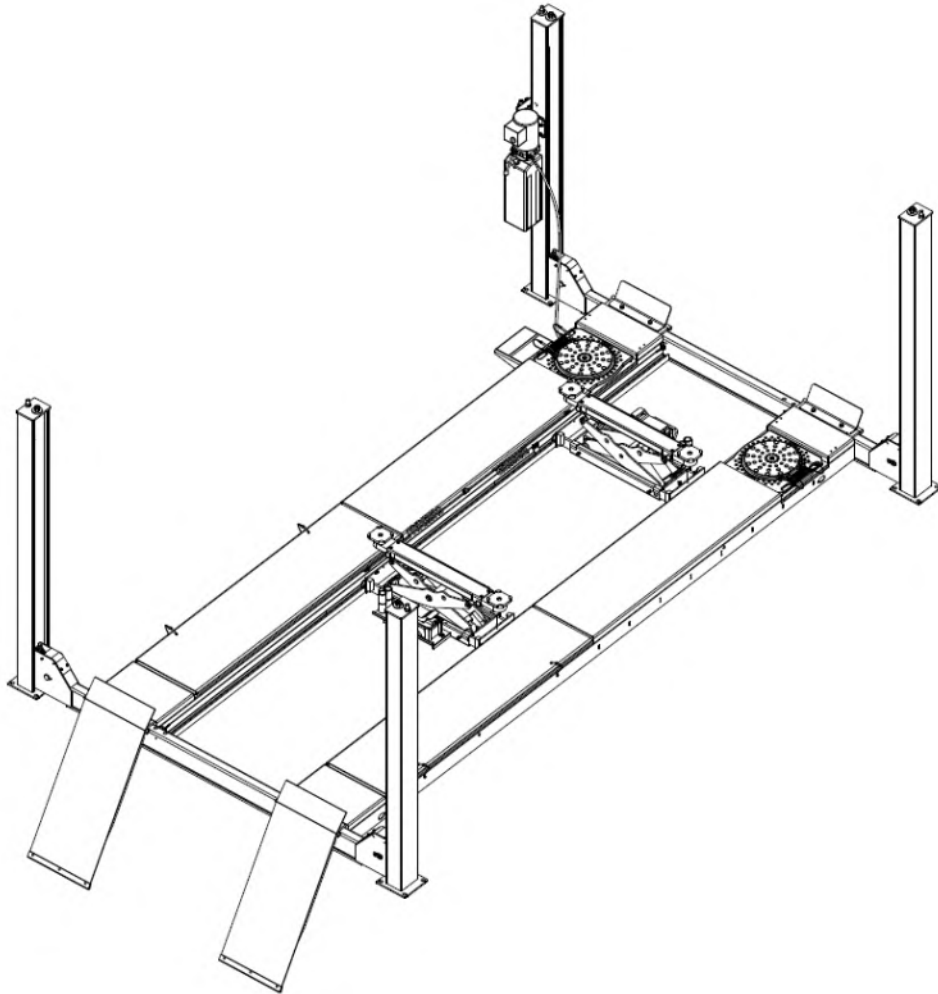
Item #	Part #	Qty/Jack	Description
1	RJ9-04-00	2	Footpad
2	EAA0485V30A	1	Air/Oil Pump
3	VS10-31-08	4	M8 x 12 Flat Head Screw
4	RJ6-19	2	Stop Bar
5	RJ6-02CH	2	Arm
6	RJ7.5-01	1	Sleeve
7A	RJ7.5-07F	1	Outer Scissor Plate, Front
7B	RJ7.5-07R	1	Outer Scissor Plate, Rear
8	RJ6-06-04	1	Upper Pin Roller
9	RJ6-13	1	Upper Pin
10	VS10-20-10	6	5mm Roll Pin
10A	X10-099	4	20mm Washer
11	RJ6-18	2	Roller
12	RJ7.5-15A	2	Side Member Weld
13	RJ6-08	1	Main Pin
14	RJ6-23	2	Spacer Washer
15	RJ6-12	1	Upper Pin, Fixed End
16	RJ7.5-06	1	Internal Scissor
17	RJ7.5-11	1	Jack Body
18	RJ6-27CH	4	16mm Dia. Shoulder Bolt
19	RJ6-17CH	4	Wheel
20	RJ6-24CH	4	Nylon Washer
21	RJ6-26A	4	Compression Spring
22	RJ6-25CH	4	Carrier
23	RJ7.5-16	1	Lock
24	RJ7.5-20	1	Lock Pin
24A	RJ7.5-35	2	21mm Snap Ring
25	EAM0156V25A	2	Pump Hold Down Plate
27	1-17788A	2	SOCKET HEAD CAP SCREW GB/T70.1-2000
28	1-22288A	2	M6 Nylon Locknut GR.8, GB/T889.1-2000
29	RJ6-09CHA	1	Cylinder, Flow-Restricted
30	RJ7.5-15-00	2	Side Member Assembly
31	X10-077	4	M10 x 25 HHCS
31A	RJ6-38	4	M10 Hex Nut
32	RJ6-05	4	3" Stack Pad
33	RJ6-14	1	Cylinder Pin
33A	RJ6-40	2	15mm Snap Ring
34	RJ6-22CH	1	Hydraulic Elbow
35	RJ6-21CH	1	Hydraulic Hose
36	RJ6-31	2	10mm Push Lock Elbow
37	1-04488A	2	Flat washer $\Phi$ 6 GB/T 95-2002
38	JSJ3-10-04	1	3/8 NPT x 14mm 37 Deg. Flare
40	Z16777	1	Jack Capacity Decal

### IMPORTANT!

Replace all worn, damaged, or broken parts with parts approved by Snap-on Equipment.  
Contact 1-800-225-5786

# Jack Beam Air Supply System

## INSTALLATION & OPERATION MANUAL JACK BEAM AIR SUPPLY SYSTEM



**IMPORTANT: READ THIS MANUAL COMPLETELY BEFORE INSTALLING OR  
OPERATING LIFT**

Read entire manual before assembling, installing, operating, or servicing this equipment. Proper maintenance and inspection is necessary for safe operation. DO NOT operate a damaged lift.

# LAYOUT VIEW

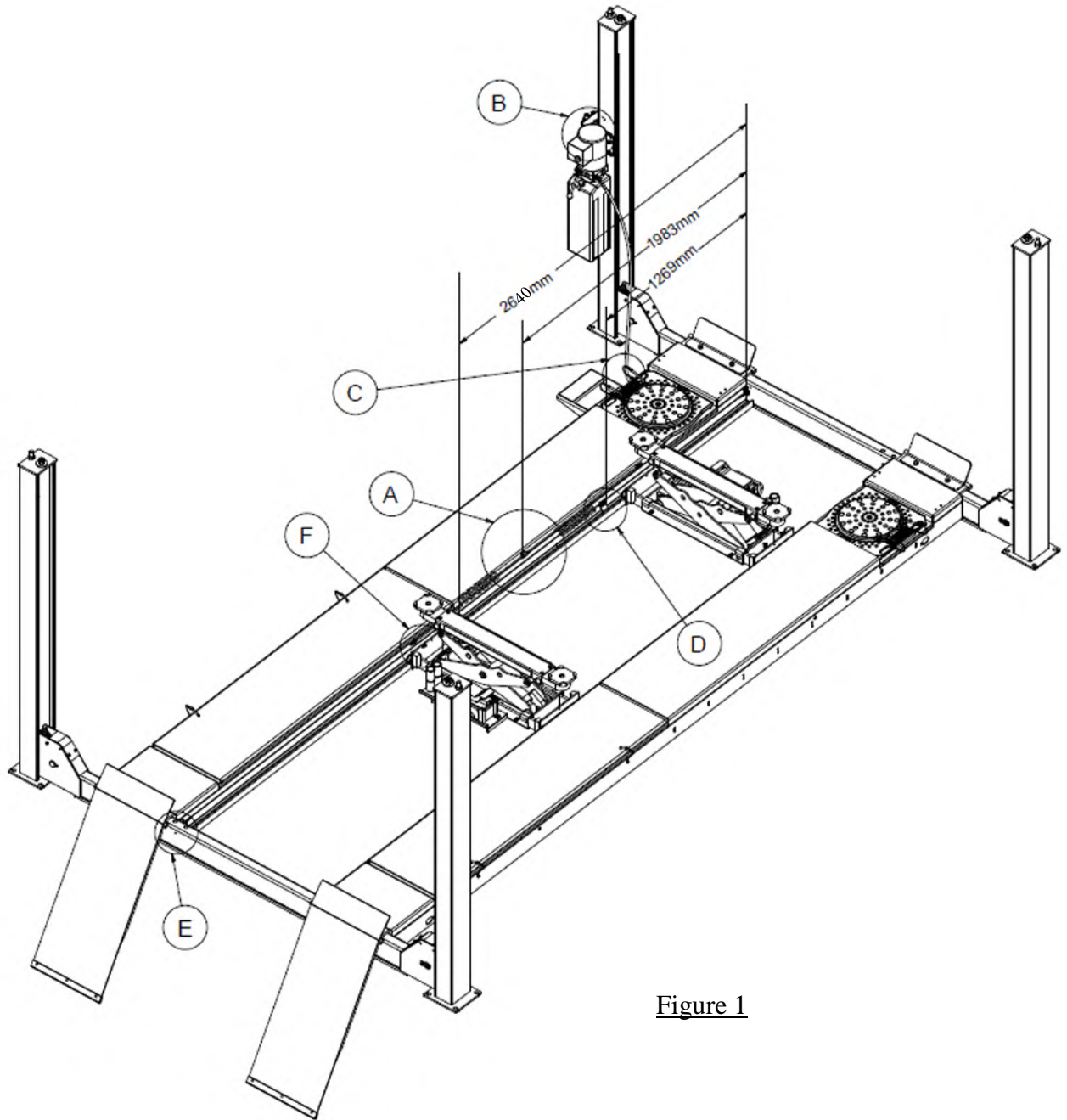
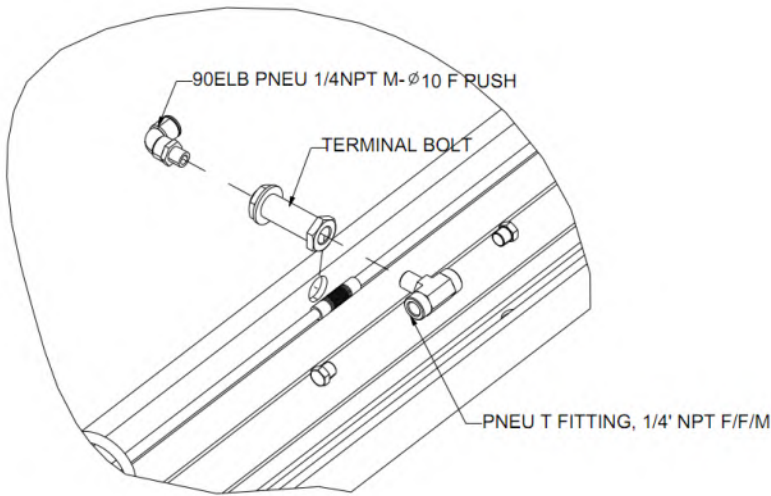


Figure 1

### Tee Fitting Installation (Pre-Installed)

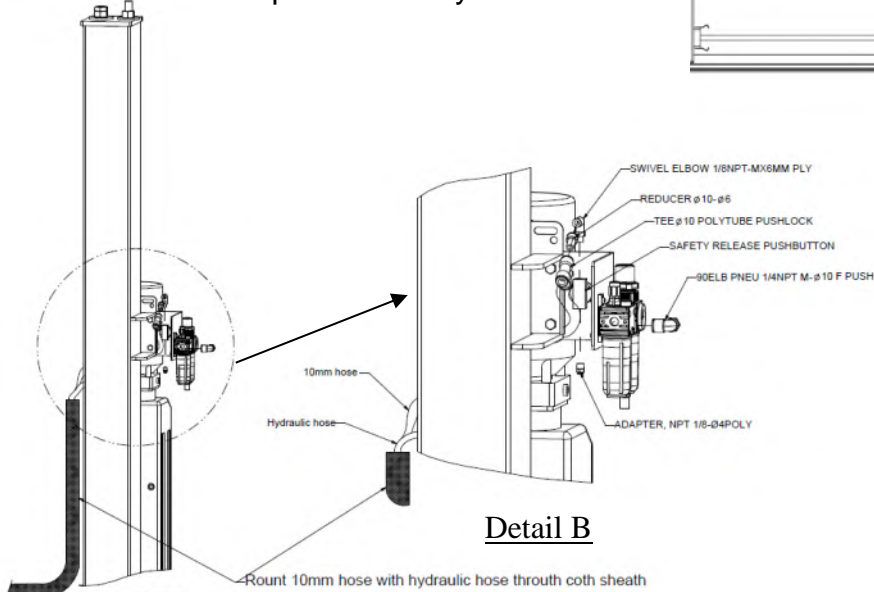
1. Move lift to comfortable working height and rest in locks.
2. Locate Ø21mm hole on the vertical wall of the power runway 1983mm from the front. As shown in Figure 1.
3. Assemble fittings as show in Detail A.



Detail A

### Air Hose Routing (Pre-Installed)

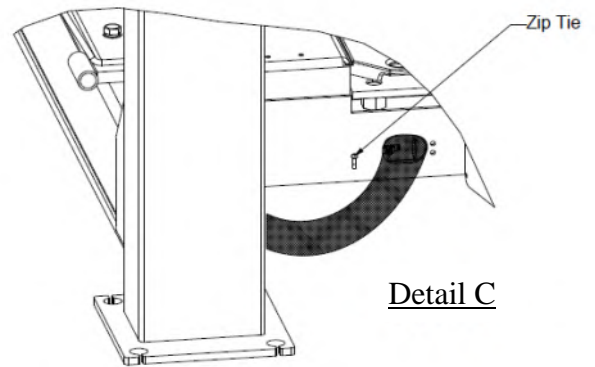
1. Locate Release Valve Bracket and assemble components supplied as shown in Detail B.
2. Rout 10mm plastic poly tubes with hydraulic hose in cloth sheath to outside of power runway.



Detail B

Figure 2

3. Use provided zip ties to secure 10mm air hose to the power runway as shown in Detail C.



4. Once routed inside the runway, run along the outside wall of the runway until hose can clear hydraulic cylinder.
5. Secure other end with zip tie to runway as before.
6. Making sure to clear cylinder then route along inside wall of runway and connect to Tee. Figure 3.

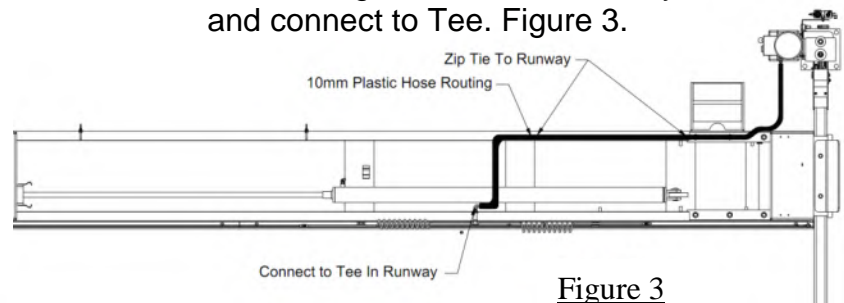


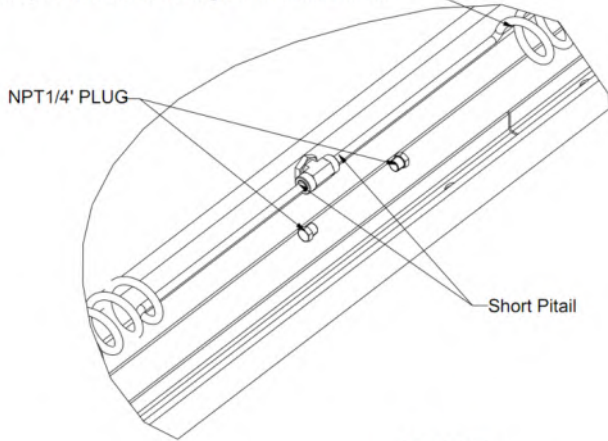
Figure 3



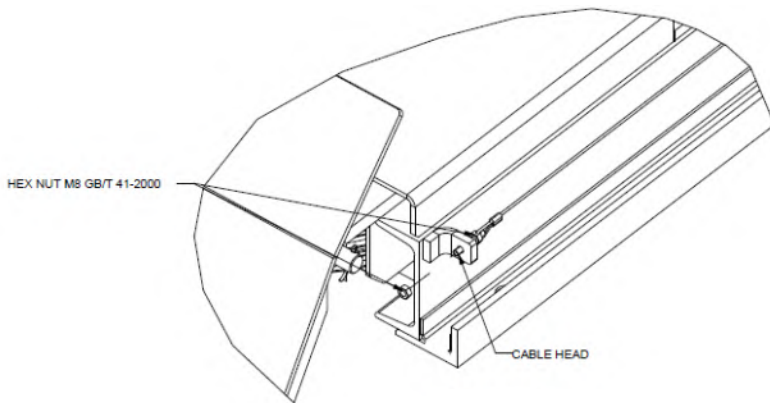
## Coiled Hose Installation

1. Attach the coiled hose to the Tee in the runway and to the jacks.
  - a. Remove two NPT 1/4' PLUGS before connecting the short pigtail with the swivel end to the tee. Detail A.
  - b. If there one Jack is on use, connect NPT 1/4' PLUG to the another side of the Tee.
  - c. Run  $\varnothing 3.5\text{mm}$  steel cable through the coiled hoses and into both fixing plate on deck, attaching with a cable head and two lock nut. Detail E. Install at driver side deck.

Run  $\varnothing 3.5\text{mm}$  Cable Through Both Coiled Hoses.



Detail A



Detail E

2. Use hose clamp and provide hardware to secure the coiled hose to the jack as shown in Detail F.

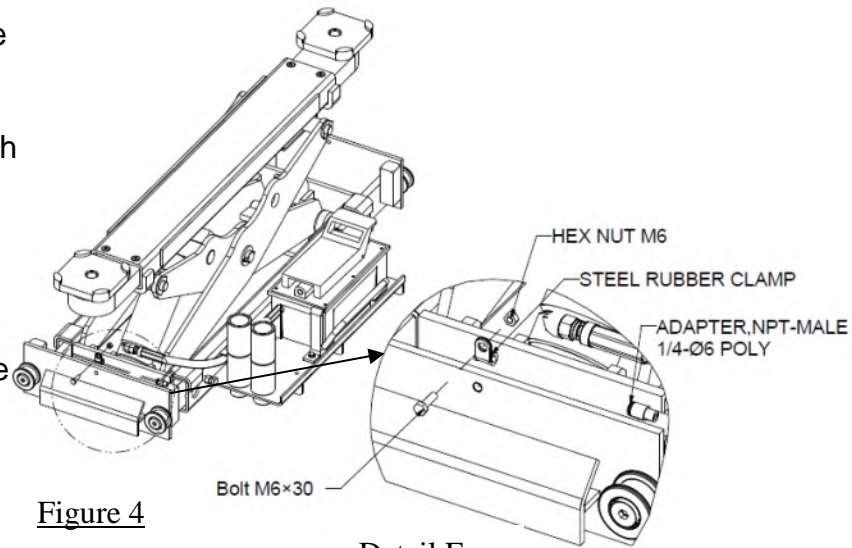
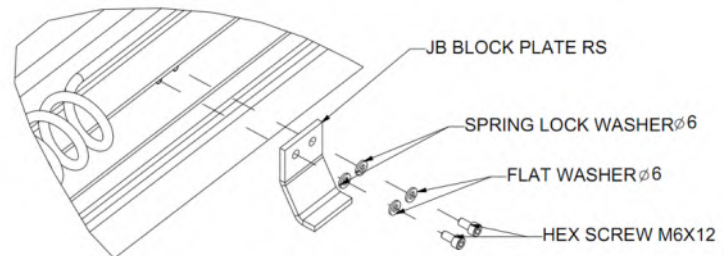


Figure 4

Detail F

## Bolt Stop Installation (Pre-Installed)

1. Pre-Installed at passenger side deck, also, can be install at driver side deck.
2. Locate  $\varnothing 5\text{mm}$  holes on the power runway located at 1269mm and 2640mm from the front of the runway as show in Figure 1.
3. Move the jacks to the ends of the runways and install Block plate with hex screws,  $\varnothing 6\text{mm}$  spring and flat washers as shown in Detail D.



Detail D

## Coiled Hose to Jack Connection

1. When coiled hoses are attached to the jacks with the clamps provided, cut the provided  $\text{\O}6\text{mm}$  OD plastic tubing into lengths shown in Figure 5 before installation and attach fittings by pushing onto end of tubing.
2. Route hose with connections as shown in Figure 6. Note: different routing for Front or Rear jack location.

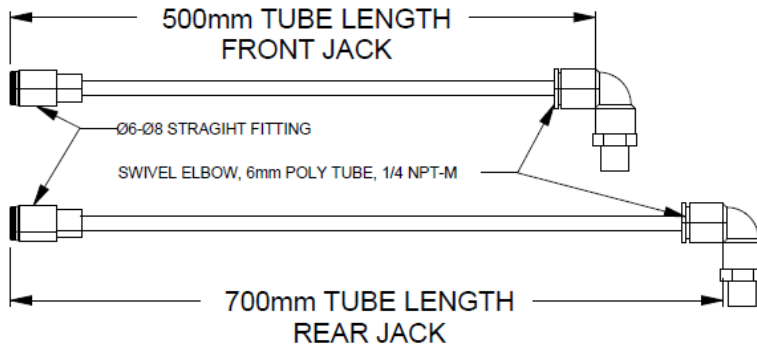


Figure 5

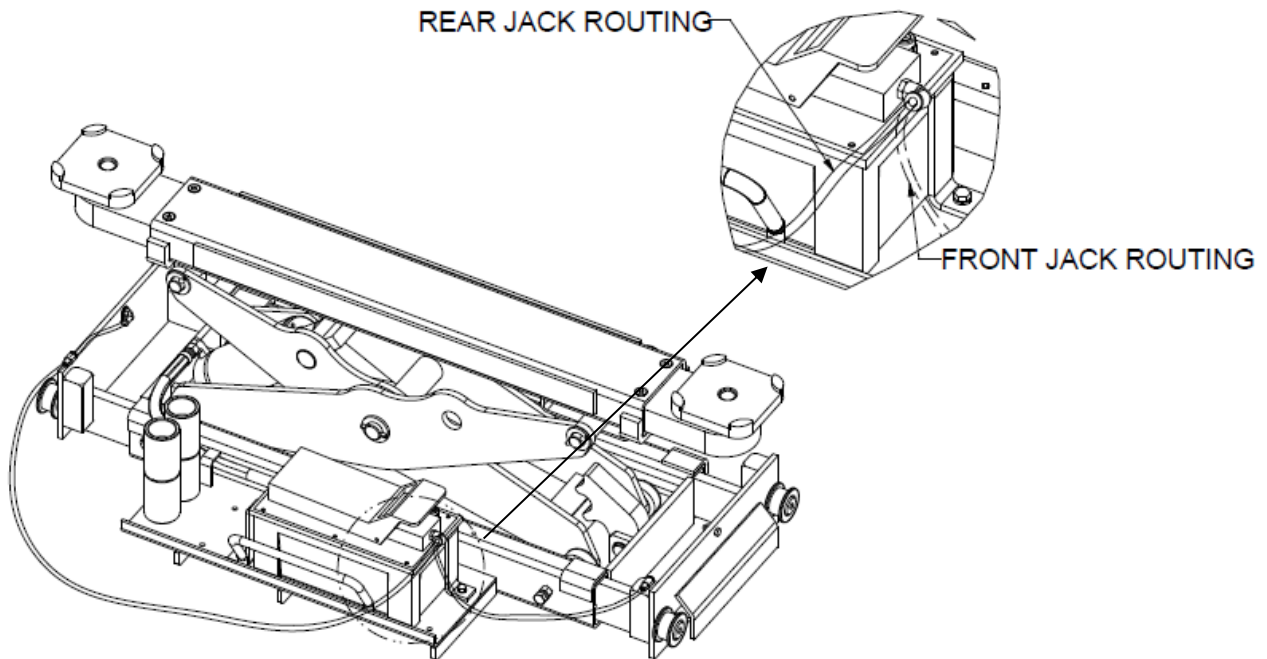
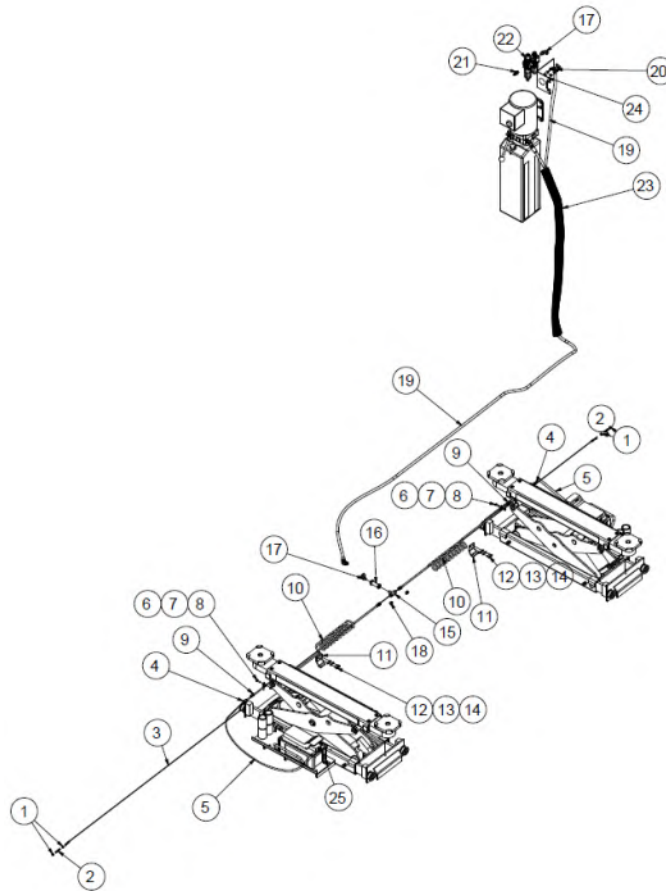


Figure 6

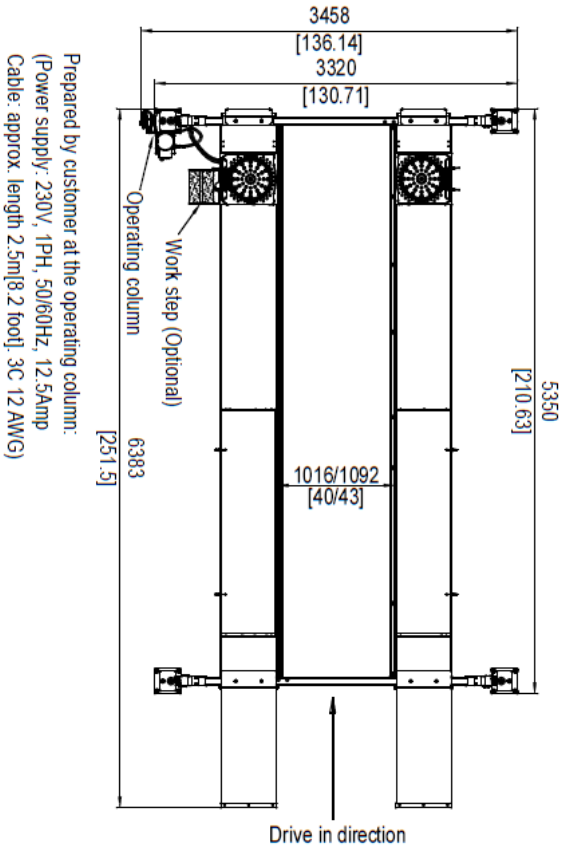


## Parts Breakdown

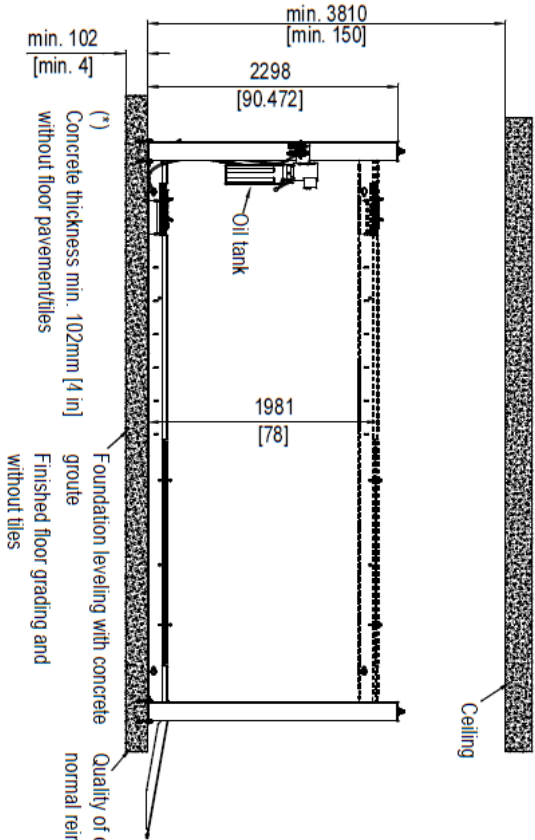


ITEM#	PART#	Qty/Lift	DESCRIPTION
1	1-00288A	4	HEX NUT M8 GB/T 41-2000
2	EAM0156V22A	2	CABLE HEAD
3	EAA0485V07A	1	ROPE ASSEMBLY
4	EAH0075V27A	2	ADAPTER NPT-MALE 1/4-Ø6 POLY
5	EAH0075V25A	2	POLY TUBE Ø6
6	1-26488A	2	HEX BOLT M6X20 GB/T5783-2000
7	EAH0075V28A	2	HOSE CLAMPØ8
8	1-26288A	2	HEX NUT M6 GB/T6170-2000
9	EAH0075V26A	2	Ø6 – Ø8 STRAIGHT FITTING
10	EAH0075V29A	2	COIL POLY TUBE ASSEMBLY
11	EAM0156V12A	2	JB BLOCK PLATE
12	1-20488A	4	HEX SCREW GB/T 70.1-2008 M6X12
13	1-04488A	4	FLAT WASHER GB/T 848-2002 Ø6
14	1-04588A	4	SPRING WASHER GB/T 93-1987 Ø6
15	6-3896CN	1	PNEU T FITTING, 1/4" NPT F/F/M
16	1-10389A	1	TERMINAL BOLT
17	6-3010CN	2	90ELB PNEU 1/4NPT M-n10 F PUSH
18	1-25079A	2	NPT1/4 PLUG
19	EAH0075V04A	1	JACK BEAM AIR TUBE 10 mm-4740
20	6-3011CN	1	TEE n10 POLYTUBE PUSHLOCK
21	1-41680A	1	PLUG CONNECTION
22	EAH0058V16A	1	OIL-WATER SEPARATOR
23	40347	1	HOSE SLEEVE
24	EAA0485V16A	1	RELEASE VALVE ASSEMBLY
25	9-0675	2	SWIVEL ELBOW, 1/4" NYLON TUBE, 1/4 NPT-M

# Foundation Plan



Prepared by customer at the operating column:  
 (Power supply: 230V, 1PH, 50/60Hz, 12.5Amp  
 Cable: approx. length 2.5m[8.2 foot], 3C 12 AWG)



These are the recommended requirements for the installation. There may be unknown foundational or other conditions not obvious. We recommend that you consult an architect or engineering firm to know more details.

Recommended overhead clearance is a minimum of twelve and half (12.5) foot ceiling providing 6.5 feet for the maximum lift height and 6 feet for the supported vehicle. For vehicles taller than 6 feet it is recommended that the user provides additional overhead clearance or a shut off mechanism to stop the lift from raising the vehicle too high.

<p><b>Base plate Detail</b></p> <p>184 197 [7.756] 228.6 [91] 241 [9.488] 100.945 91</p>	<p>Observe the min. anchorage of the anchors. With floor pavements use longer anchors. Observe the regulation of the anchor manufacture.</p> <p>min. 76 [min. 3]</p> <p>Anchor M19×150 [3/4×5-1/2] Column base plate automotive lift Quality of concrete min. C20/C25</p>
<p><b>12K 4POST ALIGNMENT LIFT</b></p> <p>Capacity: 12000lbs/5450Kg</p> <p>10-10-2019 F.B</p> <p>EELR529A EELR728A EELR369A</p>	

### Change History

Version	Change item
E	1. Add Spare part and list of Power Unit of Page 35-36.
G	1. Add Note on page 11 regarding fixing screws and washers of shipping frame. 2. Update Spare part list on Page 27 regarding item 22, removed item 23. 3. Updated Spare part drawing on Page 26. 4. Updated lowered runway height on Page 6. (Was 182.5)
H	1. Add change history on page 51. 2. Update Spare part list on Page 27 regarding item 22. 3. Removed all Challenger P/N of spare part list on Page 32.
I	1. Add Wheel Chock as standard accessory on page 37. 2. Replace 45 °fitting with 90 °fitting for oil tube connection between power unit on page 27.