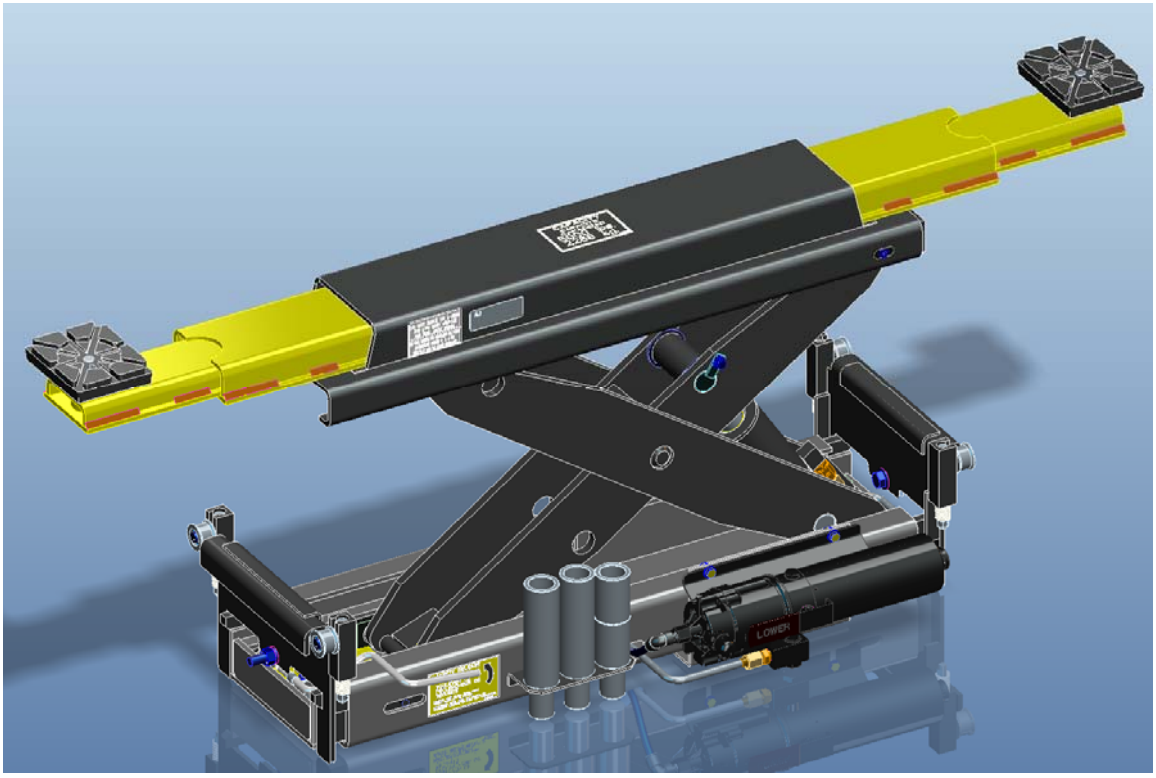
Snap-on Equipment

AIR-HYDRAULIC ROLLING JACKBEAM
CAPACITY: 5000 LBS.
MODELS: EELR503A



INSTALLATION AND OPERATION MANUAL

READ ALL INSTRUCTIONS THOROUGHLY BEFORE INSTALLING, OPERATING, SERVICING, OR MAINTAINING THE LIFT.

AUTOMOTIVE LIFT INSTITUTE MEMBER

Snap-on Equipment

6500 Millcreek Drive, Mississauga, Ontario, L5N 2W6
Customer Service 1-800-268-7959

NOV 2012 REV. - 6-4094

Contents

1.0 OWNER / EMPLOYER OBLIGATIONS

1. The Owner/Employer 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-2008, **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**.

2. The Owner/Employer shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2008, **American National Standard for Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance**; and the Employer shall ensure that the lift inspectors are qualified and that they are adequately trained in the inspection of the lift.

3. The Owner/Employer shall establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2008, **American National Standard for Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance**; and the Employer shall ensure that the lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.

4. The Owner/Employer shall maintain the periodic inspection and maintenance records recommended by the lift manufacturer's instructions or ANSI/ALI ALOIM-2008, **American National Standard for Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance.**

5. The Owner/Employer 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-2008, **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/Employer shall not modify the lift in any manner without the prior written consent of the manufacturer.

2.0 JACKBEAM INSTALLATION AND OPERATION MANUAL

The Jackbeam should only be used with lifts installed on level concrete floors conforming to the installation instructions for the lift. Consult lift installation instructions for concrete thickness and strength requirements. Ensure clearance around and above lift conforms to installation instructions for the lift.

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.

Installation of lifts shall be performed in accordance with ANSO/ALI ALIS, Safety Requirements for Installation and Service of Automotive Lifts

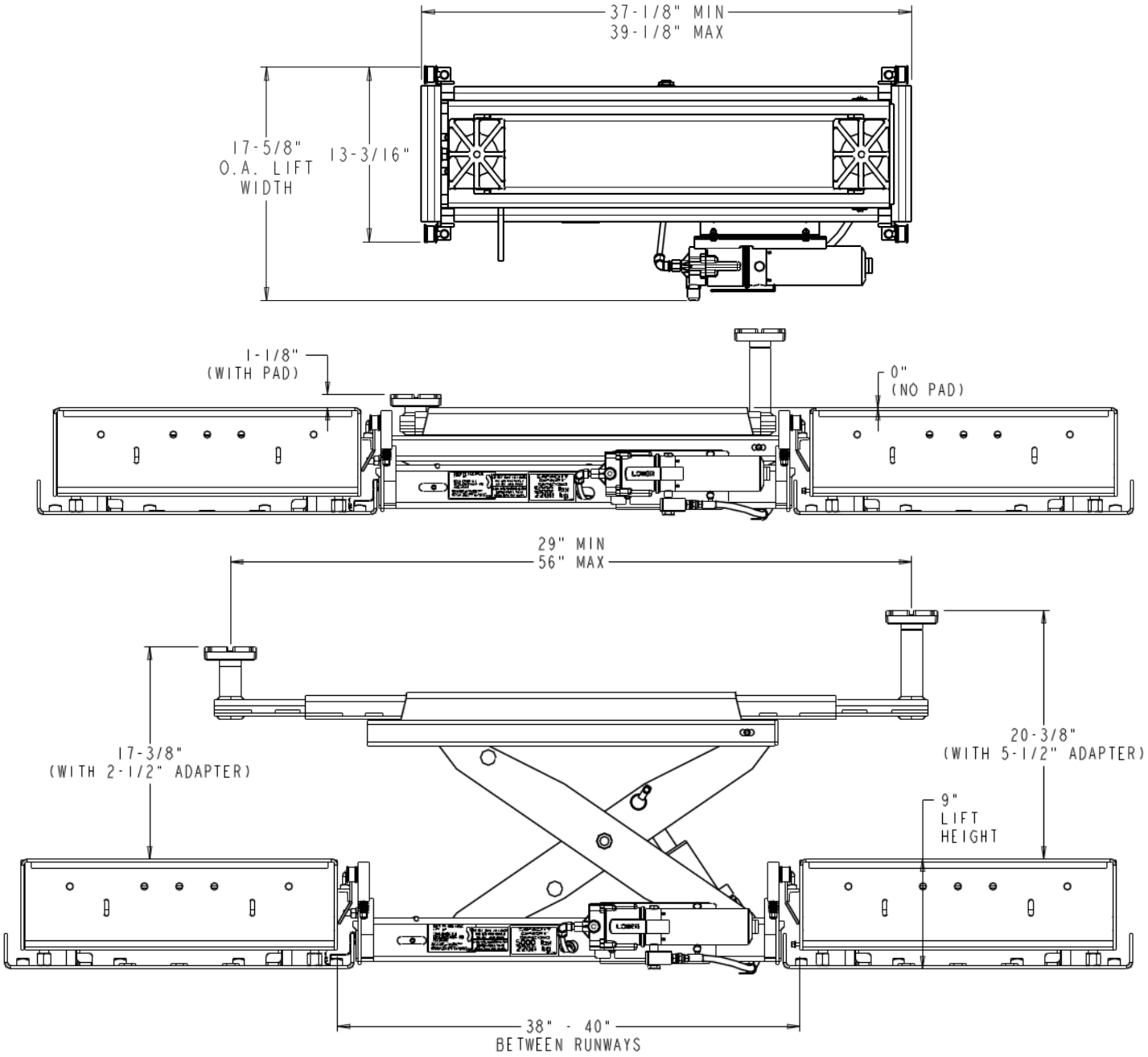
For additional safety instructions regarding lifting, lift types, warning labels, preparing to lift, vehicle spotting, vehicle lifting, maintaining load stability, emergency procedures, vehicle lowering, lift limitations, lift maintenance, good shop practices, installation, operator training and owner/employer responsibilities, please refer to “Lifting It Right” (ALI/SM) and “Safety Tips” (ALI/ST).

For additional instruction on general requirements for lift operation, please refer to “Automotive Lift-Safety Requirements For Operation, Inspection and Maintenance” (ANSI/ALI ALOIM).

NOTE: Air supply must be lubricated and include water separator. Failure to do so will damage the air /hydraulic motor and void the manufacturer’s warranty.

3.0 Specifications

Capacity	**5,000 lbs.**	**2268 kg**
Minimum Arm Reach	**29”**	**737 mm**
Maximum Arm Reach	**56”**	**1422 mm**
Minimum Lowered Height above Deck Surface (no stack pad)	**0”**	**0 mm**
Maximum Raised Height above Deck Surface (w/ Std. pad)	**14-7/8”**	**378 mm**
Standard Pad Height (2 Pads)	**1-1/4"**	**32 mm**
Adapter Heights (2 of each)	**2-1/2" & 5-1/2"**	**64 mm & 140 mm**
Power Requirements @ 20 in3/min (flow rate)	**90-120 psi**	**6-8 bar**
Maximum Operating Pressure @ Rated Load:	**4450 psi**	**307 bar**
Shipping Weight	**330 Lbs.**	**150 Kg.**



Jackbeam plan and elevation views

4.0 Shipping Contents

The Jackbeam is fully assembled and packaged to protect it during shipping. Included are the following components:

- o (1) Jackbeam Assembly, including:
  - Jacking Beam Body
  - Lifting Arms
  - Roller Adapters
  - Air/Hydraulic Pump
- o (2) Stack Pad Assembly
- o (2) 2-1/2" Stack Adapter
- o (2) 5-1/2" Stack Adapter
- o (1) Installation and Operation Manual
- o Wherever LOCTITE symbol is shown, apply LOCTITE #242 on required fasteners. If fasteners are removed reapply LOCTITE before re-installing.

5.0 Safety Instructions

⚠ CAUTION

- Never allow unauthorized or untrained persons to operate the jackbeam.
- Thoroughly train all employees in the use and care of the jackbeam.
- Allow 12” minimum clearance between vehicle and nearest overhead obstruction before raising vehicle above runways. This number is dependent on the stack pad & adapter combination. For each adapter used, minus the length of the adapter from 12”. Failure to comply can result in vehicle damage and/or personal injury.

⚠ WARNING

- To avoid personal injury and/or property damage, the jackbeam must only be operated by trained personnel.
- Never overload the jackbeam. Capacity of jackbeam is stated on nameplate, **DO NOT** exceed.
- Observe and avoid any pinch point areas of the jackbeam.
- Never operate a Jackbeam that is not in proper working order or in a manner not recommended by the vehicle or jacking beam manufacturer.
- Always ensure that the mechanical safety is engaged whenever a vehicle is supported by the Jackbeam.
- You may stack a 2-1/2" and a 5-1/2" adapter together for a maximum of 8" of additional lifting height per arm. Do not exceed.
- Load evenly; do not place weight on one side of the jack.

6.0 Position the Jackbeam on Lift

Note: The Jackbeam must be positioned on the lift correctly prior to usage. The pump side of the jackbeam should face outwards.

1. With roller adapters retracted to the minimum width, position the jackbeam between the lift.

2. Extend each roller adapter from the base of the Jackbeam and place on lift with the plastic rollers centered on the deck rails.

3. To ensure that the jackbeam is adjusted correctly, the top cover must be centered between the roller adapters.

4. Adjust roller adapters and tighten locking set screws (see below figure). 

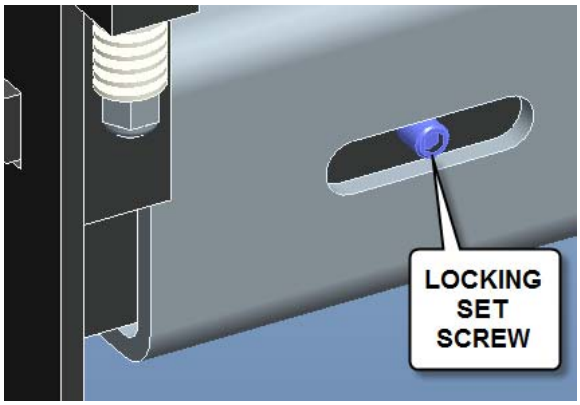
5. Roll jackbeam forward and backward, ensuring the plastic rollers rotate freely. Also ensure that the hook on the roller adapter does not contact the inside of the rail on the lift. When load is applied to the jackbeam, the hook on the roller adapter will contact the inside of the rail on the lift.

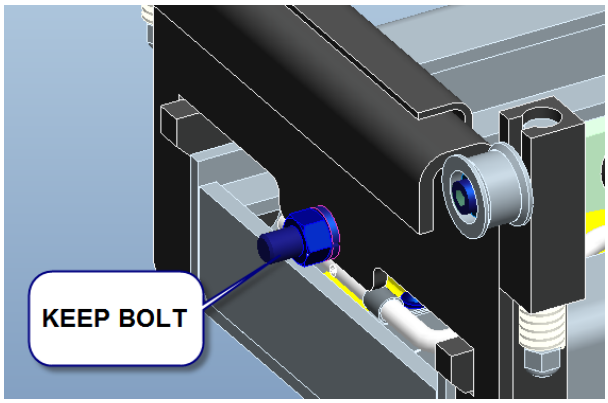
6. Push down on the jackbeam at each roller location to ensure the jackbeam springs back to its resting location. If the jackbeam does not spring back, adjust the locknut on the roller stem to increase or decrease the tension of the spring.

7. Attach recoil hose to the bulkhead fitting at the rear of each jackbeam, and then other ends to the 'T' fitting on lift.

8. Ensure the keeper bolts are installed and tightened on each roller adapter (see below figure).

9. Prior to placing vehicle on lift, raise and lower the Jackbeam multiple times and check for air and hydraulic leaks. See sections "5.0 Raising the Jackbeam" and "6.0 Lowering the Jackbeam" for operation instructions.





7.0Final Check the followings:

- Check safety lock work properly
- Check for air and hydraulic leaks
- Check oil level
- Lubrication of moving components
- All screws, bolts, and pins secured

- Surrounding area clean
- Operation, maintenance and Safety Manual on site.

NOTE:
DISCONNECT AND / OR RELEASE THE PRESSURE FROM THE AIR SUPPLY SYSTEM / HOSES BEFORE PERFORMING ANY INSTALLATION OR MAINTENANCE OF THE AIR SUPPLY SYSTEM.

AN APPROPRIATE AIR LINE REGULATOR, WATER SEPARATOR AND LIBRICATOR SHOULD BE INSTALLED ON THE AIR SUPPLY LINE. THE ABSENCE OF THESE ITEMS WILL VOID THE WARRANTY ON PNEUMATIC COMPONENTS.

8.0 Raising the Jackbeam

1. Prior to placing vehicle on lift, check the operation of the jackbeam.

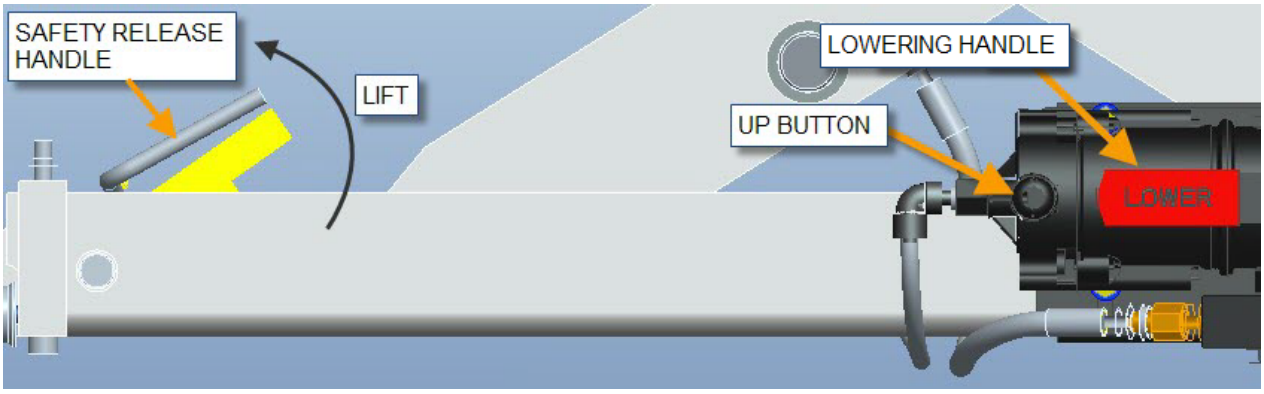
2. Press the up button on the air/hydraulic pump and hold until jacking beam is at full working height.

3. As lift travels up:

- Ensure the mechanical safety falls into place at both safety positions.

- Check system for air and hydraulic leaks.

4. To place a vehicle on the lift, see section "7.0 Positioning of Vehicle on Jackbeam" for instructions.



9.0 Lowering the Jackbeam

1. To lower the jackbeam, first raise the jackbeam up off the mechanical safety lock.

2. Disengage the safety lock by lifting and holding the Safety Release Handle.

3. Press the lowering handle on the pump to release pressure allowing the jacking beam to lower to its full down position.

4. Once jackbeam is completely collapsed, release the safety and lowering handles.

5. If lowering from the 2nd lock position to the 1st lock position, repeat steps 1 to 4. You may release the safety handle once the 2nd safety has passed.

6. Lower the Jackbeam onto each safety (Note: there are two safety positions to allow for multiple working heights).

NOTE: The Safety Release handle is gravity returned to “reset” the safety.

After reading these instructions, get familiar with the controls by running the jackbeam through a few cycles before loading vehicle on lift.

10.0 Storage Position of Jackbeam

In order to allow for adequate vehicle drive-on clearance,

1. When not in use, store Jackbeams towards the center of the lift.

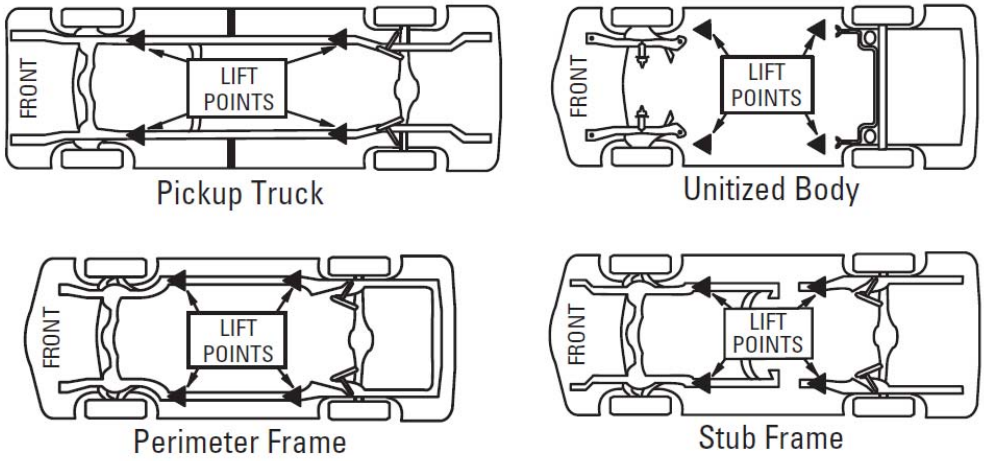
2. Ensure lift is fully collapsed.

3. Remove lifting pads if additional clearance is required

11.0 Positioning of Vehicle on Jackbeam

Read and understand all safety and operation labels on the lift. Refer to the "Lifting it Right" manual and "Safety Tips" card supplied to you for additional important instructions and information.

NOTE: Some vehicles may have the manufacturer's Service Garage Lift Point locations identified by triangle shape marks on its undercarriage (reference SAE J2184). Also, there may be a label located on the right front door lock face showing specific vehicle lift points. If the specific vehicle lift points are not identified, refer to the "Typical Lift Points" figure below or the ANSI/ALI **Lift Point Guide** included with your lift.



1. The vehicle must be positioned correctly on the lift prior to raising the vehicle with the Jackbeam. With the vehicle's center of gravity equally spaced between the runways, the Jackbeam can be used to lift the vehicle.

2. Move the Jackbeam to the desired pickup area.

3. Select lifting points that are the same distance from the centerline of the vehicle, i.e. position the Jackbeam pads so that they make contact at the same point on each side of the vehicle.

4. With the Jackbeam positioned, insert the stack pad assembly's if not already installed. If required, use the 2-1/2" and/or 5-1/2" adapter below vehicle.

> **ATTENTION:** Use the same size stack adapter on each lifting arm. Failure to adhere may cause vehicle damage and/or personal injury.

8. NOTE: Lift vehicle at vehicle manufacturer's recommended pickup points only. Please refer to **ALI/LP-GUIDE**, **Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts**.

5. Extend the arms to the desired pickup point. If required, raise the jackbeam so the arms can be extended above the runways.

ATTENTION! Lifting arms should be extended equally as to avoid any off-load of the vehicle that may cause vehicle damage and/or personal injury.

6. As the Jackbeam raises the vehicle, the weight of the Jackbeam is transferred from the rollers to the lift. The roller assemblies on the Jackbeam are spring loaded and are meant to carry the weight of the jack only. When load is applied, the structure cannot be moved.

7. To lower the vehicle, refer back to section "6.0 Lowering the Jack Beam".

ATTENTION! Do not raise lift while vehicle is supported by the Jackbeams. Failure to adhere may cause vehicle damage and/or personal injury.

12.0 Lock Out and Tag Out Instructions

IMPORTANT: This machine does not have integral devices that will isolate the electrical, pneumatic, stored and hydrualic energy source. Appropriate isolation or blocking devices must be used that have the provisions to be switched in the off position and locked in that position.

ALL MAINTANANCE AND SERVICE MUST BE PERFORMED BY A QUALIFIED PERSON.

ALL MAINTANANCE AND SERVICE MUST BE PERFORMED WITH THE LIFT UNLOADED.

IT IS THE SHOP OWNERS RESPONSIBILITY TO ENSURE ENERGY ISOLATING DEVICES ARE:

- **Accessible**
- **Conveniently located to facilitate the application of lockout devices during service and maintenance**
- **Located outside any hazardous area.**
- **At a convenient manipulating height (i.e. not overhead, on ladders or under machinery)**
- **Adequately labeled or marked. Identification shall include machine ID, energy type and magnitude.**
- **Capable of being locked or otherwise secured in an effective isolating position.**

Effective hazardous energy control procedures will protect employees during machine and equipment servicing and maintenance where the unexpected energization, start up or release of stored energy could occur and cause injury, as well as while working on or near exposed de-energized electrical conductors and parts of electrical equipment. Hazards being guard against include being caught in, being crushed by, being struck by, being thrown from, or contacting live electrical circuits/parts.

In preparation for lockout, an initial survey must be made to locate and identify all energy isolating devices to be certain which switch, valve, or other energy isolating devices apply to the machine / equipment to be locked out. More than one energy source (electrical, hydraulic, pneumatic, or others) may be involved.

12.1 SHUT DOWN PROCEDURE:

- Notify all affected employees that a lockout or tagout system is going to be utilized and the reason for. The authorized employee shall know the type and magnitude of energy that the lift utilizes and shall understand the associated hazards.
- ELECTRICAL: Located at the user control panel, press the "E-STOP" button to disconnect the raise and lower functions.

ELECTRICAL ENERGY IS STILL PRESENT AT THE LIFTS ELECTRICAL PANEL WHEN THE EMERGENCY STOP BUTTON IS PRESSED. ELECTRICAL ENERGY MUST BE TURNED OFF AND ISOLATED AT THE DISCONNECT PANEL PRIOR TO PERFORMING SERVICE OR MAINTANANCE ON THE LIFT.

12.2 ISOLATION AND VERIFICAITON PROCEDURES:

ENERGY TYPE AND SOURCE	LOCKOUT LOCATION (TO BE COMPLETED BY END USER)	PROCEDURE FOR LOCING OUT AND OR RELEASING ENERGIES	VERIFY PROCEDURES
STORED ENERGY AND HYDRAULIC PRESSURE 3000-5000 PSI		LOWER THE LIFT TO ITS LOWEST REST POSTION. IF THE LIFT MUST BE SERVICED OR MAINTAINED IN THE RAISED POSITION, ENSURE THAT THE LIFT IS PLACED ON THE MECHANICAL LOCKS AND SUPPORTED BY SUPPLEMENTARY JACK STANDS, BLOCKED AT THE SLIDERS AND A COME ALONG SECURED BETWEEN THE SCISSORS.	VERIFY THAT THE LIFT IS CONTACTING THE SUPPLEMENTARY JACK STANDS, THE BLOCKS ARE SECURLY PLACED AND THE COME ALONG IS SECURED BETWEEN THE SCISSORS.
ELECTRICAL 240VOLTS		AT THE LIFT, PRESS THE EMERGENCY STOP BUTTON COMPLETELY TO DE-ENERGIZE THE CONTROL BUTTONS. AT THE DISCONNECT PLANEL, PLACE THE DISCONNECT HANDLE IN OFF POSITION. ATTACH A MULTIPLE LOCUOUT DEVICE. LOCK AND TAG. DANGER: LINE SIDE OF DISCONNECT REMAINS ENERGIZED	ATEMPT TO RESTART THE SYSTEM, THE SYSTEM MUST NOT START. VISUALLY VERIFY OPEN DISCONNECTS AND LOCKING DEVICE INSTALLED.
PNEUMATIC UPTO 160PSI		SLOWLY CLOSE LOCKOUT VALVE TO RELEASE AIR PRESSURE GRADUALLY. ATTACH MULTIPLE LOCKOUT DEVICE, LOCK AND TAG. DANGER: LINE SIDE OF DISCONNECT REMAINS PRESSURIZED	VERIFY THE VALVE IS CLOSED AND LOCKOUT DEVICE IS PROPERLY ATTACHED. OPERATE THE PNEUMATIC SYSTEM TO ENSURE THE SYSTEM IS DE-ENERGIZED. IT MAY BE NECESSARY TO BLEED THE SYSTEM OF REMAINING COMPRESSED AIR, THIS CAN BE PERFORMED AT THE BASE OF THE WATER SEPARATOR BOWL.

12.3 RETURNING TO SERVICE:

- Check the lift and the immediate area around the lift to ensure that nonessential items,, tools and parts are removed and that the lift components are operationally intact.
- Check the work area to ensure that all employees have been safely positioned or removed from the work area.
- Notify all employees that the lockout/tagout is going to be removed and the lift is going to restarted.
- Remove the lockout/tagouts in the reverse order as the installation.
- Verify the proper operation of the equipment.
- Notify affected employees that the maintenance/service is completed and the machine is ready for operation.

13.0 Recommended Maintenance

Daily:

1. Inspect that the jackbeam is in proper working condition.

2. Make certain that the automatic engaging safety drops into place when the Jackbeam is raised and that it will release when held in the up position during lowering.

3. Inspect air/hydraulic system for leaks.

4. Inspect for loose bolts, broken/damaged components. Replace as required.

5. Keep the entire Jackbeam as clean as possible at all times.

6. Ensure that the lifting arm stops are working correctly. Fully extend each arm until the stop engages.

7. Inspect condition and stack ability of lifting pads. Replace if required.

Monthly:

1. Keep the air source clean and make certain that an air filter is used to keep dirt out of the air motor. To maintain a clean shop air supply, an FRL (oil/lube/filter and regulator) should always be in good working order in conjunction with the use of an oiler/separator.

NOTE: It is the user(s) responsibility to supply an air filter/lubricator to ensure a clean air source is provided to the air/hydraulic pump. Failure to provide clean air may void manufacturers' warranty. Please contact customer service regarding Optional Kit # 0100.

2. Check functionality of the rollers, keep clean.

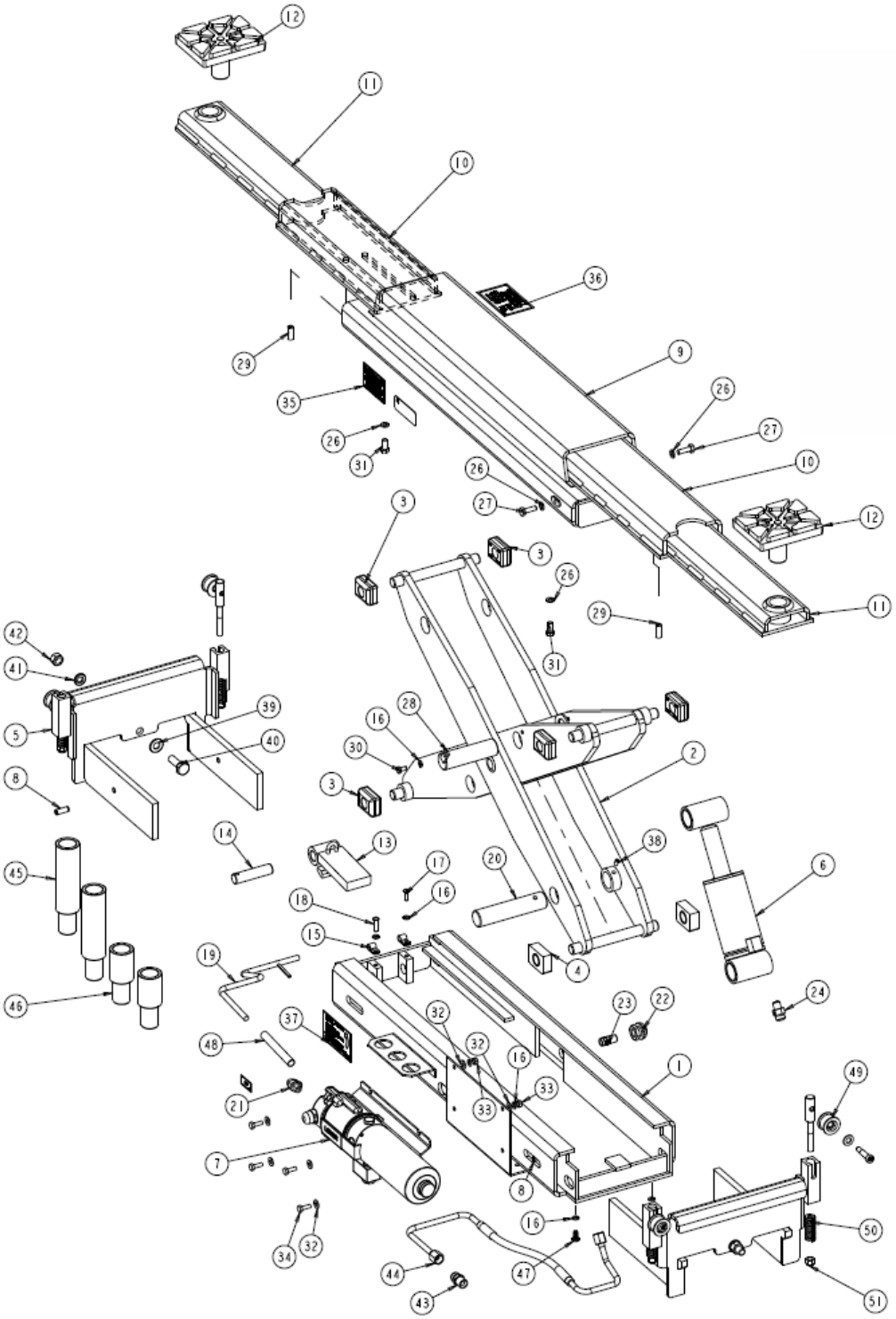
3. Grease upper and lower slider block areas. Use multipurpose, extreme pressure grease such as Megaplex XD%, NGLI grade 2 or equivalent.

14.0 Trouble Shooting

Trouble	Cause	Remedy
Pump runs but lift will not rise after contacting load.	Lift loaded beyond capacity.	Do not exceed capacity of lift list on tag.
	Fluid leak at pump, hose or cylinder.	Repair leak, refill reservoir.
	Wrong pump installed on lift.	Verify pressure rating of pump says 5500 psi on label.
	Pump malfunction.	Contact customer service to have pump serviced.
	Pump low on fluid.	Lower jackbeam and check fluid level. Replenish if required.
Pump will not start when “UP” button is pushed.	Insufficient air supply at pump.	Pump requires 90 – 120 psi of shop air.
	Leak in air supply line.	Locate and correct leak.
	Restriction in air line (i.e. Kink)	Locate and correct restriction.
	Bad air motor.	Contact customer service to have pump serviced.
Pump runs but will not lift to full height	Pump low on fluid.	Lower jackbeam and check fluid level. Replenish if required.
Lift does not hold pressure and will slowly descend.	Fluid leak at pump, hose or cylinder.	Repair leak, refill reservoir.
	Lowering valve damaged.	Replace damaged or missing parts.
	Pump malfunction.	Contact customer service to have pump serviced.
Lift lowers slowly or not at all.	Mechanical Safety is engaged.	Release mechanical safety.
	Restriction in hydraulic system.	Contact customer service to have lift serviced.
	Lack of grease	Apply grease to top and bottom slide block areas
⚠ WARNING	**If jackbeam is in the raised position and will not come down, ensure that the mechanical safety is engaged prior to servicing the lift. Failure to do so can cause vehicle damage and/or personal injury.**	

15.0 Parts List: Exploded View

ATTENTION! Discontinue the use of the Jackbeam immediately if any component(s) are damaged, defective, worn or broken. Please contact Customer Service 1-800-225-5786.

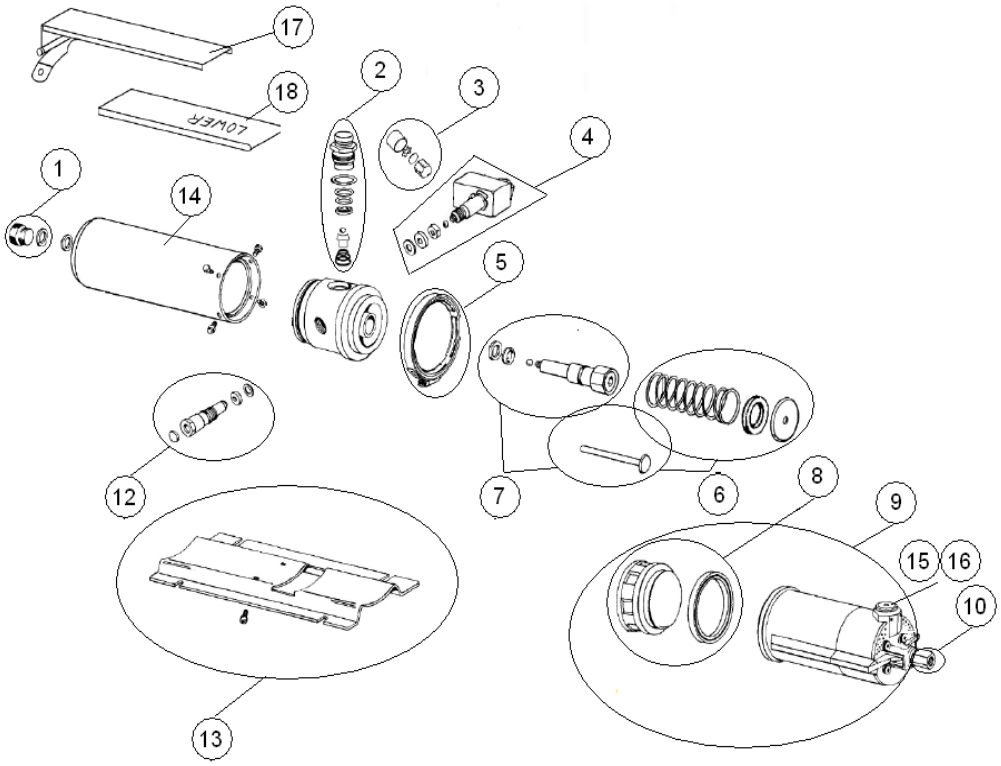


REPLACE WORN, DAMAGED OR BROKEN PARTS WITH PARTS APPROVED BY THE ORIGINAL EQUIPMENT MANUFACTURER ONLY

16.0 Jackbeam Parts List

ITEM	QTY.	DESCRIPTION	PART #
1	1	Base Weldment	3-1131
2	1	Scissor Assembly	3-1098
3	6	Glide Block	1-3836
4	2	Fixed Glide Block w/ Bushing	1-4030
5	2	Roller Adapter Weldment	3-1099
6	1	Hydraulic Cylinder Assembly	3-1075
7	1	Air/Hydraulic Pump	6-1428
8	4	Set Screw, 3/8" x 1"lg	6-3061
9	1	Top Cover Weldment	3-1100
10	2	Outer Arm Weldment	2-2639
11	2	Inner Arm Weldment	2-2640
12	2	Stack Pad Assembly	1-3665
13	1	Safety Weldment	2-2950
14	1	Safety Pin	1-3966
15	2	Loop Clamp, 3/8"	6-3959
16	9	Lock Washer, 1/4" ID	6-0056
17	1	Button Head Cap Screw, ¼-20UNC x ¾" Lg.	6-2565
18	1	Button Head Cap Screw, ¼-20UNC x 1" Lg.	6-3036
19	1	Safety Lever Assembly	1-3951
20	1	Upper Cylinder Pin	1-3841
21	1	Pneumatic 90 Elbow, 1/4" NPT-M - 3/8 poly	6-3010
22	1	Terminal Bolt, 3/4"	6-0713
23	1	Adapter, 1/4" NPT-M x 3/8" poly	6-0710
24	1	Flow Restrictor	6-4072
25	14"	Polytube, 3/8	8-0142
26	4	Lock Washer, 5/16"	6-0674
27	2	Hex Bolt, 5/16-18UNC x 1 Lg.	6-0293
28	1	Upper Cylinder Pin	1-3949
29	2	Roll Pin, 1/4" x 1-3/4"lg	6-3487
30	1	Hex Bolt, 1/4"-20UNC x 1/2"Lg	6-0126
31	2	Hex Bolt, 5/16"-18UNC x 3/4" Lg.	6-0423
32	8	Flat Washer, 1/4" ID	6-0060
33	4	Hex Nut, 1/4"-20NUC	6-0032
34	4	Hex Bolt, 1/4"-20UNC x 3/4" Lg.	6-0178
35	1	Decal, Raise & Lowering Warning	6-3970
36	1	Decal, Capacity 5000 Lbs.	6-3688
37	1	Decal, Safety Release	6-3863
38	1	Set Screw, 1/4"-20UNC x 1/2"Lg knurled	6-0438
39	2	Flat Washer, 1/2"	6-0248
40	2	Hex Bolt, 1/2"-12UNC x 1-1/2" Lg.	6-0291
41	2	Lock Washer, 1/2"	6-0059
42	2	Hex Nut, 1/2"-13UNC	6-0035
43	1	Adapter, 3/8" NPT M x 3/8 ORF M	6-4070
44	1	Hydraulic Tube Assembly, 3/8" JIC	2-2910
45	2	Stack Pad Adapter, 5-1/2"	2-2724
46	2	Stack Pad adapter, 2-1/2"	1-3711
47	2	Pan Hd MC Screw, 1/4-20UNX x 5/8" Lg	6-0335
48	1	Rubber Grip Handle	6-3862
49	4	Roller Assembly	2-0259
50	4	Spring	6-0081
51	4	Nylon Lock Nut, 3/8"-16UNC	6-0042
53	1	Decal, "UP"	6-3031

17.0 Air / Hydraulic Pump Exploded View



18.0 Air / Hydraulic Pump Parts List

ITEM	QTY.	DESCRIPTION	PART #
1	1	Reservoir Cap Assembly	6-3348
2	1	Release Guide Assembly	6-3349
3	1	Flow Restrictor Assembly	6-3350
4	1	Coupler Assembly	6-3351
5	1	Coupling V-Retainer	6-3352
6	1	Plunger & Spring Kit	6-3353**
7	1	Hydraulic Cylinder Assembly	6-3354**
8	1	Air Piston Assembly	6-3355
9	1	Air Motor Assembly	6-3356
10	1	Coupler Kit	6-3357
12	1	Relief Valve Assembly	6-3859*
13	1	Base	6-3360
14	1	Reservoir	6-3361
15	1	Poppet Guide Assembly	6-3365
16	1	Boot	6-3368
17	1	Handle	6-3366
18	1	Rubber Sleeve	6-3367

* Relief Valve adjustments should only be performed and tested by the manufacturer. Please specify pump part number in order to receive a properly adjusted Relief Valve.
** Plunger is included in both kits 6-3353 and 6-3354.

19.0 Maintenance Schedule

Records of all lift maintenance and operator training should be recorded in the following table. Serial Number of lift is located on rear of base.

Maintenance and Training Performed	Date	By	Notes

Maintenance and Training Performed	Date	By	Notes

*** Make copies of this form as required.**