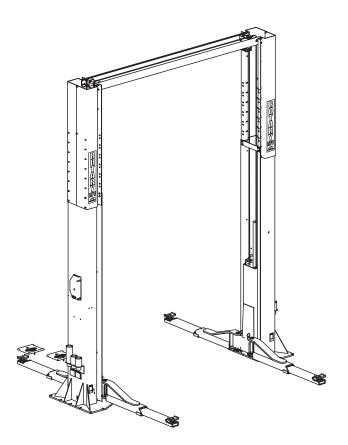


# SPO15, SPO18

Sprinter SPO15 (3A0 Lifts) Capacity 11,000 lbs. Standard SPO15 (300 Series Lifts) Capacity 15,000 lbs. Standard SPO18 (300 Series Lifts) Capacity 18,000 lbs. SPO15 (31A0 Lifts) Capacity 14,300 lbs,

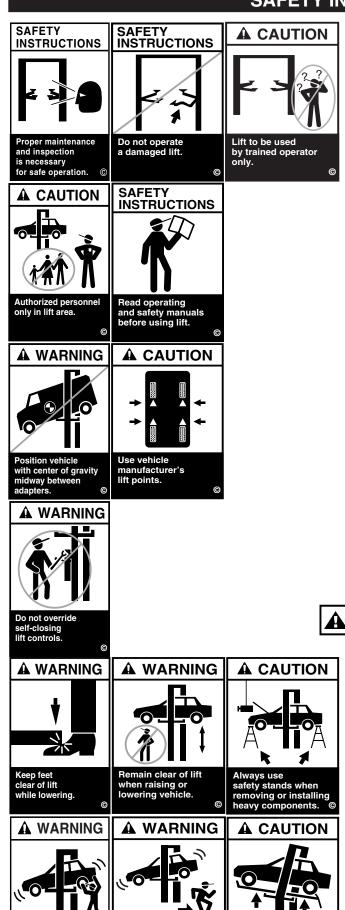


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**INSTALLER:** Please return this booklet to literature package and give to lift owner/operator.

### SAFETY INSTRUCTIONS



Clear area if vehicle

is in danger of falling.

0

Avoid excessive

while on lift.

rocking of vehicle

- **Daily** inspect your lift. Never operate if it malfunctions or if it has broken or damaged parts. Use **only** qualified lift service personnel and genuine Rotary parts to make repairs.
- **Thoroughly** train all employees in use and care of lift, using manufacturer's instructions and "Lifting It Right" and "Safety Tips" supplied with the lift.
- **Never** allow unauthorized or untrained persons to position vehicle or operate lift.
- **Prohibit** unauthorized persons from being in shop area while lift is in use.
- **Do Not** permit anyone on lift or inside vehicle when it is either being raised or lowered.
- **Always** keep area around lift free of tools, debris, grease, and oil.
- Never overload lift. Capacity of lift is shown on nameplate affixed to the lift.
- **Do Not** stand in front of the lift or vehicle while it is being positioned in lift bay.
- **Do Not** hit or run over lift arms or adapters. This could damage lift or vehicle. Before driving vehicle into lift bay, position arms and adapters to provide unobstructed entrance onto lift.
- Load vehicle on lift carefully. Position lift adapters to contact at the vehicle manufacturer's recommended lift points. Raise lift until adapters contact vehicle. Check adapters for secure contact with vehicle. Raise lift to desired working height.



DO NOT go under vehicle if locking latches are not engaged.

• **Do Not** block open or override self-closing lift controls; they are designed to return to the "Off" or Neutral position when released.

- Do Not remove or disable arm restraints.
- Remain clear of lift when raising or lowering vehicle.
- Always use safety stands when removing or installing heavy components.
- Avoid excessive rocking of vehicle while on lift.
- Clear area if vehicle is in danger of falling.
- · Remove tool trays, stands, etc. before lowering lift.
- Release locking latches before attempting to lower lift.
- Position lift arms and adapters to provide an unobstructed exit before removing vehicle from lift area.

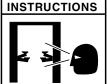
Auxiliary adapters may reduce load capacity.

### **OWNER/EMPLOYER RESPONSIBILITIES**



- 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/SM07-1, ALI Lifting it Right safety manual; ALI/ST-05 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.
- Lift to be used by trained operator only.

SAFETY



Proper maintenance and inspection is necessary for safe operation.

- 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 lift inspectors are qualified and that they are adequately trained in the inspection of the lift.
- 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 lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.
- Shall maintain the periodic inspection and maintenance records recommended by the manufacturer or ANSI/ALI ALOIM-2008, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance.
- Shall display the lift manufacturer's operating instructions; ALI/SM, ALI Lifting it Right safety manual; ALI/ST-05 ALI Safety Tips card; ANSI/ALI ALOIM-2008, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; 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.
- Shall provide necessary lockout/tagout means for energy sources per ANSI Z244.1-2003 (R2008), Safety Requirements for the Lockout/Tagout of Energy Sources, before beginning any lift repairs.
- Shall not modify the lift in any manner without the prior written consent of the manufacturer.

## **OPERATING INSTRUCTIONS**

#### Surface Mounted Frame Engaging Lifts

AWARNING To avoid personal injury and/or property damage, permit only trained personnel to operate lift. After reviewing these instructions, get familiar with lift controls by running the lift through a few cycles before loading vehicle on lift.

IMPORTANT

Always lift the vehicle using all four adapters. <u>NEVER</u> raise just one end, one corner, or one side of vehicle.



Observe and heed SAFETY, CAUTION, and WARNING labels on the lift.

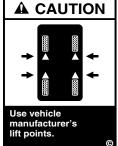
contact at vehicle manufacturer's recommended lift points.

- E. Continue to raise to desired height only if vehicle is secure on lift.
- F. DO NOT go under vehicle if all four adapters are not in secure contact at vehicle manufacturer's recommended lift points.
- G. Repeat complete spotting, loading and raising procedures if required.

DO NOT go under vehicle if locking

H. Lower lift onto locking latches.

latches are not engaged.



1. Lift must be fully lowered and service bay clear of all personnel before the vehicle is brought on lift. Swing arms out to full drive-thru position.

**2.** Spot vehicle over lift with left front wheel in proper spotting dish position, see "positioning vehicle Fig 1.

3. Loading: Swing arms under vehicle and position adapters at vehicle manufacturer's recommended lift points, Fig. 2. Use optional adapter extensions for under body clearance when required.



- **Note:** Allow 2 seconds between motor starts. Failure to comply may cause motor burnout.
- 4. To Raise Lift:
- A. Push RAISE switch on power unit, Fig. 3.
- B. Stop before making contact with vehicle. Check arm restraint pins for engagement. If required, slightly move arm to allow restraint gear and pawl to mesh. DO NOT hammer pin down as this will damage the restraint gear teeth.
- C. Raise vehicle until tires clear the floor.
- D. Stop and check adapters for secure



CAUTION

Before attempting to lift pickup trucks or other truck frame vehicles, be sure that:

- A. Vehicle frame is strong enough to support it's weight and has not been weakened by modification or corrosion.
- B. Vehicle individual axle weight does not exceed one-half lift capacity.
- C. Adapters are in secure contact with frame at vehicle manufacturers recommended lift points.
- D. Vehicle is stable on lift and neither front nor "tail" heavy.
- E. The overhead switch bar will contact the highest point on the vehicle.

•Adapter extensions are furnished in 5" & 10" increments. The stack-up height should not exceed 15". Use adapter extension combination to keep vehicle as level as possible while it is being supported by the lift.

\*Maximum operation pressure is: 2538 psi for SPO15 Sprinter (31A0 Series) 2103 psi for SPO15 Sprinter (3A0 Series) 2465 psi for SPO15 Standard 2538 psi for SPO18 Standard

Use height extenders when necessary to ensure good contact. ©



Auxiliary adapters may reduce load capacity.

4



Proper maintenance and inspection is necessary for safe operation.





#### 5. While Using Lift:

- A. Avoid excessive rocking of vehicle while on lift.
- B. Always use safety stands as needed or when removing or installing heavy components.

6. To Lower Lift:

- A. Remove all tools or other objects <sup>8</sup> from lift area.
- B. Raise lift off locking latches.
- C. Push AIR LATCH release handle fully and hold.
- D. Push LOWERING valve handle to lower.

Note: The AIR LATCH release toggle and LOWERING valve handle are deadman-type design. Each must be held down to lower lift. Do Not override self-closing lift controls.

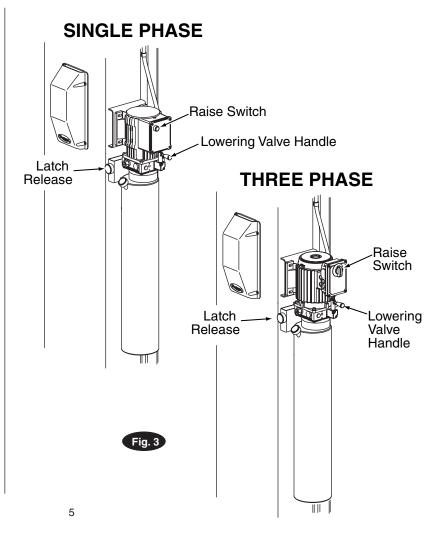




- 7. Remain clear of lift when lowering vehicle. Observe pinch point warning decals.
- 8. Remove adapters from under vehicle and swing arms to full drive-thru position before moving vehicle.
- **9.** If lift is not operating properly, **Do Not** use until adjustment or repairs are made by qualified lift service personnel.

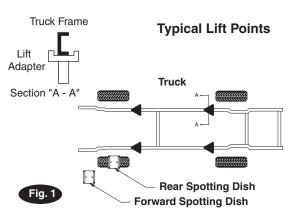






#### Positioning the vehicle

For longer wheel base vehicles, position the vehicle on the forward spotting dish. For shorter wheel bases, position the vehicle on the rear spotting dish. Due to varying centers of gravity within different vehicle classes, use the dishes as quides only and locate the arms beneath the vehicle pickup points. Always position vehicle with its center of gravity in line with the lift columns. Slightly raise the vehicle and check for stability. Do this by pushing up and down on the front and rear bumpers. The vehicle should sit firmly on all pickup points. If necessary, relocate arms and/or vehicle to attain a stable condition. Also refer to the ALI Safety Manual included with the lift.



### MAINTENANCE INSTRUCTIONS

If you are not completely familiar with automotive lift maintenance procedures; **STOP:** Contact factory for instructions. To avoid personal injury, permit only qualified

personnel to perform maintenance on this equipment.

- Always keep bolts tight. Check periodically.
- Always keep lift components clean.
- **Always** if oil leakage is observed, call local service representative.
- **Always** if electrical problems develop, call local service representative.
- **Daily:** Check cables and sheaves for wear. Observe for frayed cable strands. Wipe cables with a rag to detect hard to see small broken cable strands. Replace cables showing any broken strands. Replace worn parts as required with genuine Rotary parts.

- **Daily:** Inspect adapters for damage or excessive wear. Replace as required with genuine Rotary parts.
- **Monthly:** Check equalizer cable tension. Adjust per lift installation instructions. If there are no more threads available for adjustment, replace the cable. Do not use washers to stand off the nut to use previously used threads.
- **Monthly:** Lubricate locking latch shafts. Push air latch toggle several times for oil to penetrate joints.
- Every 3 Months: Check anchor bolts for tightness. Anchors should be torqued to 90 ft/lbs.
- Semi-Annually: Check fluid level of lift power unit and refill if required per lift installation instructions. And lubricate slider tracks with light oil, such as TUFOIL<sup>™</sup>.
- If Lift stops short of full rise or chatters, check fluid level and bleed both cylinders per lift installation instructions.

Replace all caution, warning or safety

C 1992 by ALI, Inc.

C

ALI/WL101s

related decals on the lift if unable to WARNING A WARNING CAUTION A read or missing. Reorder labels from Rotary Lift. Clear area if vehicle Position vehicle ift to be used Authorized personnel is in danger of falling. with center of gravity by trained operator only in lift area. midway between only. C adapters. © C INSPECTION and MAINTENANCE **A** WARNING **A** CAUTION See ANSI/ALI ALOIM booklet for periodic inspection checklist and maintenance log sheet. Δ SAFETY SAFETY INSTRUCTIONS INSTRUCTIONS Avoid excessive Remain clear of lift Use vehicle Always use when raising or rocking of vehicle manufacturer's safety stands when lowering vehicle. while on lift. lift points. removing or installing C heavy components. © **A** WARNING CAUTION Read operating and safety manuals before using lift. Proper maintenance and inspection is necessarv C for safe operation. SAFETY The messages and pictographs shown are generic in nat INSTRUCTIONS shown are generic in nature and are meant to generally represent nazards common to all automotive ifts regardless of specific style. Keep feet clear of lift Auxiliary adapters may reduce Do not override Use height extenders self-closing when necessarv lift controls while lowerina. to ensure load capacity. Funding for the development and © validation of these labels was Ô good contact. C C provided by the Automotive Lift Institute, PO Box 33116 Indialantic The messagesand pictographschownare genericin natureand are mean The messages and pictographs shown are generic in nature and are mean to generally represent hazards common to all automotive lifts regardless of FL. 32903-3116 erallyrepresenthazardscommonto all automotive to ae specificstyle specific style They are protected by copyright. Set of labels may be obtained from ALI or its member companies. Fundingfor the developmentand validation of these labels was provided by Funding for the development and validation of these labels v as provided by Do not operate a damaged lift. the AutomotiveLiftInstitute.PO Box 33116 Indialantic.FL. 32903-3116. the Automotive Lift Institute, PO Box 33116 Indialantic, FL. 32903-3116. They are protected by copyright. Set of labels may be obtained from ALI or

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its member compani

TROUBLE SHOOTING					
Trouble	Cause	Remedy			
Motor does not run.	<ol> <li>Blown fuse or circuit breaker.</li> <li>Incorrect voltage to motor.</li> <li>Bad wiring connections.</li> <li>Motor up switch burned out.</li> <li>Overhead limit switch burned out.</li> <li>Motor windings burned out.</li> </ol>	<ol> <li>Replace blown fuse or reset circuit breaker.</li> <li>Supply correct voltage to motor.</li> <li>Repair and insulate all connections</li> <li>Replace switch.</li> <li>Replace switch.</li> <li>Replace motor.</li> </ol>			
Motor runs but will not raise lift.	<ol> <li>Open lowering valve.</li> <li>Pump sucking air.</li> <li>Suction stub off pump.</li> <li>Low oil level.</li> </ol>	<ol> <li>Repair or replace lowering valve.</li> <li>Tighten all suction line fittings.</li> <li>Replace suction stub.</li> <li>Fill tank with Dexron III ATF.</li> </ol>			
Motor runs—raises unloaded lift but will not raise vehicle.	<ol> <li>Motor running on low voltage.</li> <li>Debris in lowering valve.</li> <li>Improper relief valve adjustment.</li> <li>Overloading lift.</li> </ol>	<ol> <li>Supply correct voltage to motor.</li> <li>Clean lowering valve.</li> <li>Replace relief valve cartridge.</li> <li>Check vehicle weight and/or balance vehicle weight on lift.</li> </ol>			
Lift slowly settles down.	<ol> <li>Debris in check valve seat.</li> <li>Debris in lowering valve seat.</li> <li>External oil leaks.</li> </ol>	<ol> <li>Clean check valve.</li> <li>Clean lowering valve.</li> <li>Repair external leaks.</li> </ol>			
Slow lifting speed or oil blowing out filler breather cap.	<ol> <li>Air mixed with oil.</li> <li>Air mixed with oil suction.</li> <li>Oil return tube loose.</li> <li>Slider blocks need lubricating.</li> </ol>	<ol> <li>Change oil to Dexron III ATF.</li> <li>Tighten all suction line fittings.</li> <li>Reinstall oil return tube.</li> <li>Lubricate with light lithium grease.</li> </ol>			
Lift going up unlevel.	<ol> <li>Equalizer cables out of adjustment.</li> <li>Lift installed on unlevel floor.</li> <li>Holes drilled oversize.</li> </ol>	<ol> <li>Adjust equalizer cables to correct tension.</li> <li>Shim lift to level columns (Not to exceed 1/2"). If over 1/2" break out floor and level per lift installation instructions.</li> </ol>			
Anchors will not stay tight.	<ol> <li>Concrete floor thickness or holding strength not sufficient.</li> </ol>	<ol> <li>Relocate lift using a new bit to drill holes.</li> <li>Break out old concrete and repour new pads for lift per lift installation instruction.</li> </ol>			
Locking latches do not engage.	<ol> <li>Latch shafts rusted. (Usually oc- curs on outside installations or in high humidity areas such as vehicle wash bays.)</li> </ol>	1. Remove covers, oil latch mechanism. Depress latch release handle several times to allow oil to coat shaft.			
	<ol> <li>Latch spring broken.</li> <li>Air valve stuck open.</li> </ol>	<ol> <li>Replace broken spring.</li> <li>Cycle toggle, replace valve if necessary.</li> </ol>			
Locking latches do not disengage.	<ol> <li>No air supply.</li> <li>Air valve stuck closed.</li> <li>Air leak.</li> </ol>	<ol> <li>Check tubing and compressor.</li> <li>Cycle toggle, replace valve if necessary.</li> <li>Check tubing.</li> </ol>			
Lift will not raise off of latches.	1. Motor, pump, or cylinder failure.	1. Contact lift manufacturer's Customer Service.			

#### Purpose

This procedure establishes the minimum requirements for the lockout of energy that could cause injury to personnel by the operation of lifts in need of repair or being serviced. All employees shall comply with this procedure.

#### Responsibility

The responsibility for assuring that this procedure is followed is binding upon all employees and service personnel from outside service companies (i.e., Authorized Rotary Installers, contactors, etc.). All employees shall be instructed in the safety significance of the lockout procedure by the facility owner/manager. Each new or transferred employee along with visiting outside service personnel shall be instructed by the owner/manager (or assigned designee) in the purpose and use of the lockout procedure.

#### Preparation

Employees authorized to perform lockout shall ensure that the appropriate energy isolating device (i.e., circuit breaker, fuse, disconnect, etc.) is identified for the lift being locked out. Other such devices for other equipment may be located in close proximity of the appropriate energy isolating device. If the identity of the device is in question, see the shop supervisor for resolution. Assure that proper authorization is received prior to performing the lockout procedure.

#### Sequence of Lockout Procedure

- 1) Notify all affected employees that a lockout is being performed and the reason for it.
- 2) Unload the subject lift. Shut it down and assure the disconnect switch is "OFF" if one is provided on the lift.
- 3) The authorized lockout person operates the main energy isolation device removing power to the subject lift.
  - If this is a lockable device, the authorized lockout person places the assigned padlock on the device to prevent its unintentional reactivation. An appropriate tag is applied stating the person's name, at least 3" x 6" in size, an easily noticeably color, and states not to operate device or remove tag.
  - If this device is a non-lockable circuit breaker or fuse, replace with a "dummy" device and tag it appropriately as mentioned above.
- 4) Attempt to operate lift to assure the lockout is working. Be sure to return any switches to the "OFF" position.
- 5) The equipment is now locked out and ready for the required maintenance or service.

#### **Restoring Equipment to Service**

- 1) Assure the work on the lift is complete and the area is clear of tools, vehicles, and personnel.
- At this point, the authorized person can remove the lock (or dummy circuit breaker or fuse) & tag and activate the energy isolating device so that the lift may again be placed into operation.

#### **Rules for Using Lockout Procedure**

Use the Lockout Procedure whenever the lift is being repaired or serviced, waiting for repair when current operation could cause possible injury to personnel, or for any other situation when unintentional operation could injure personnel. No attempt shall be made to operate the lift when the energy isolating device is locked out.

## **OPERATING CONDITIONS**

Lift is not intended for outdoor use and has an operating ambient temperature range of 41°-104°F (5°-40°C).

APPROVED ACCESSORIES			
Item	Capacity	Part Num- ber	
Air/Electric Utility Box		FA5911	
Air/Electric Utility Box Without FRL		FA5910	
Filter/Regulator/Lubricator (FRL)		FA5166	

### NOTES

### NOTES



#### Trained Operators and Regular Maintenance Ensures Satisfactory Performance of Your Rotary Lift.

**Replacement Parts:** See installers package for parts breakdown sheet. Order Genuine Rotary replacement parts from your nearest Authorized Parts Distributor.

Maintenance Assistance: Contact your local Rotary distributor.

Should further assistance be required, contact Rotary Lift, at one of the phone numbers listed below.

**Rotary World Headquarters** 2700 Lanier Drive

Madison, IN 47250, USA

www.rotarylift.com

North America Contact Information

#### World Wide Contact Information

World Headquarters/USA: 1.812.273.1622 Canada: 1.905.812.9920 European Headquarters/Germany: +49.771.9233.0 United Kingdom: +44.178.747.7711 Australasia: +60.3.7660.0285 Latin America / Caribbean: +54.3488.431.608 Middle East / Northern Africa: +49.771.9233.0

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