

World Leader in Lift Systems

Two-Post Surface Mounted Swing Arm Frame Engaging Lifts Models: SPO12 & SPO15

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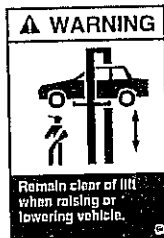
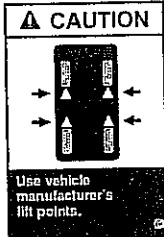
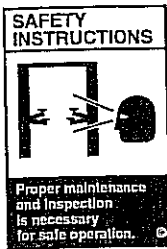
Mr. Installer: Please return this booklet to literature package and give to lift owner/operator.

ROTARY LIFT
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SAFETY INSTRUCTIONS



- 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.
- CAUTION**
- If you are working under vehicle, lift should be raised high enough for locking latches to be 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 disengage 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.

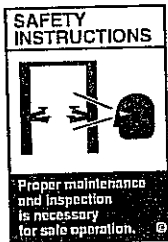
OWNER/EMPLOYER RESPONSIBILITIES

The Owner/Employer:



- Shall ensure that lift operators are instructed in the safe use and operation of the lift using the manufacturer's instructions and "Lifting It Right" and "Safety Tips" supplied with the lift.

- Shall display the operating instructions and "Lifting It Right" and "Safety Tips" supplied with the lift in a conspicuous location in the lift area convenient to the operator.



- Shall establish procedures to periodically maintain, inspect and care for the lift in accordance with the manufacturer's recommended procedures to ensure its continued safe operation.

- Shall provide necessary lockout/tagouts of energy sources per ANSI Z244.1 - 1982 before beginning any lift repairs.

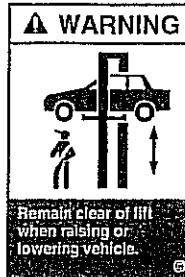
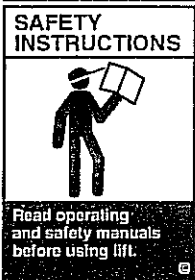
- Shall not modify the lift in any manner without the prior written consent of the manufacturer.

OPERATING INSTRUCTIONS

Surface Mounted Frame Engaging Lifts

⚠ WARNING

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.



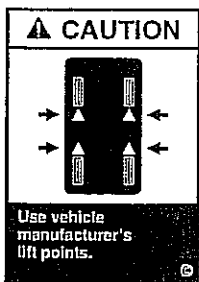
Note: Allow 2 seconds between motor starts. Failure to comply may cause motor burnout.

4. To Raise Lift:

- A. Push RAISE switch on power unit.
- B. Raise vehicle until tires clear the floor.
- C. Stop and check adapters for secure contact at vehicle manufacturer's recommended lift points.
- D. Continue to raise to desired height **only** if vehicle is secure on lift.
- E. **DO NOT** go under vehicle if all four adapters are not in secure contact at vehicle manufacturer's recommended lift points.
- F. Repeat complete spotting, loading and raising procedures if required.

Observe and heed SAFETY and WARNING labels on the lift.

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.



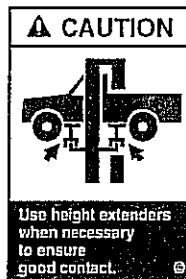
2. Spot vehicle over lift with left front wheel in proper spotting dish position, see "positioning Vehicle" Fig. 1.

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.

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

⚠ WARNING

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

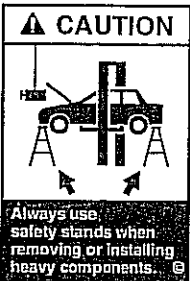


- A. Vehicle frame is strong enough to support its weight and has not been weakened by modification or corrosion.
- B. Vehicle individual axle weight does not exceed one-half lift capacity.
- C. Adapters are in secure contact with frame at vehicle manufacturer's recommended lift points.
- D. Vehicle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



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:

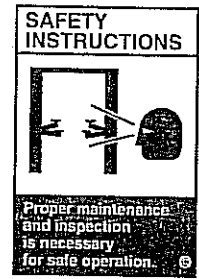
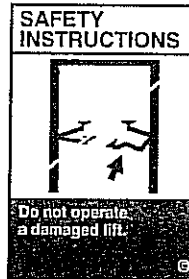
- A. Remove all tools or other objects from lift area.
- B. Raise lift off locking latches.
- C. Push AIR LATCH release toggle fully and hold.
- D. Push LOWERING valve handle to lower.

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.

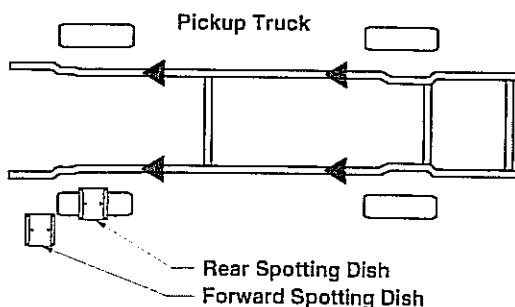
Positioning The Vehicle

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 guides only and locate the arms beneath the vehicle pickup points. Slightly raise vehicle and check for stability. Do this by pushing up & 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.

Note: Always check for stability of vehicle before raising to desired height.

WARNING Most speciality or modified vehicles cannot be raised on a frame engaging lift. Contact vehicle manufacturer for raising or jacking details.

Typical Lift Points



Lift Controls

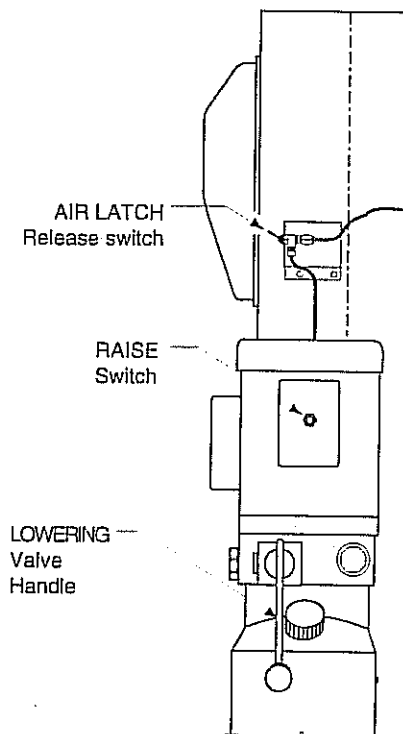


Fig. 1

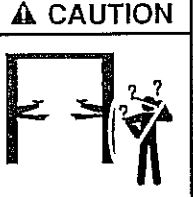
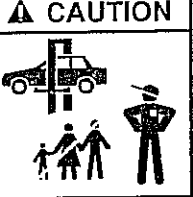
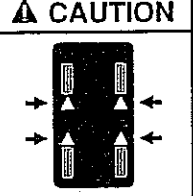
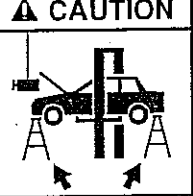
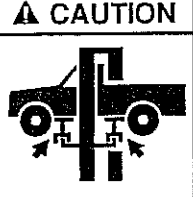
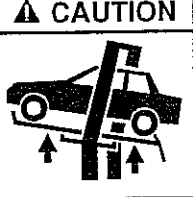
MAINTENANCE INSTRUCTIONS

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. 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.
- **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 re-fill if required per lift installation instructions. And lubricate slider tracks with light oil, such as TUFOIL™.
- 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 related decals on the lift if unable to read or missing. Reorder labels from Rotary Lift.

 ▲ WARNING Clear area if vehicle is in danger of falling.	 ▲ WARNING Position vehicle with center of gravity midway between adapters.
 ▲ WARNING Remain clear of lift when raising or lowering vehicle.	 ▲ WARNING Avoid excessive rocking of vehicle while on lift.
 ▲ WARNING Do not override self-closing lift controls.	 ▲ WARNING Keep feet clear of lift while lowering.

 ▲ CAUTION Lift to be used by trained operator only.	 ▲ CAUTION Authorized personnel only in lift area.
 ▲ CAUTION Use vehicle manufacturer's lift points.	 ▲ CAUTION Always use safety stands when removing or installing heavy components.
 ▲ CAUTION Use height extenders when necessary to ensure good contact.	 ▲ CAUTION Auxiliary adapters may reduce load capacity.

 SAFETY INSTRUCTIONS Read operating and safety manuals before using lift.	 SAFETY INSTRUCTIONS Proper maintenance and inspection is necessary for safe operation.
 SAFETY INSTRUCTIONS Do not operate a damaged lift.	<p>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.</p> <p>Funding for the development and validation of these labels was provided by the Automotive Lift Institute, PO Box 33116 Indianapolis, FL 32903-3116.</p> <p>They are protected by copyright. Set of labels may be obtained from ALI or its member companies.</p> <p>© 1982 by ALL, Inc. ALI961016</p>

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TROUBLE SHOOTING

Trouble	Cause	Remedy
Motor does not run.	<ol style="list-style-type: none"> 1. Blown fuse or circuit breaker. 2. Incorrect voltage to motor. 3. Bad wiring connections. 4. Motor up switch burned out. 5. Overhead limit switch burned out. 6. Motor windings burned out. 	<ol style="list-style-type: none"> 1. Replace blown fuse or reset circuit breaker. 2. Supply correct voltage to motor. 3. Repair and insulate all connections. 4. Replace switch. 5. Replace switch. 6. Replace motor.
Motor runs but will not raise lift.	<ol style="list-style-type: none"> 1. Open lowering valve. 2. Pump sucking air. 3. Suction stub off pump. 4. Low oil level. 5. Pump not priming. 	<ol style="list-style-type: none"> 1. Repair or replace lowering valve. 2. Tighten all suction line fittings. 3. Replace suction stub. 4. Fill tank with Dexron III ATF.
Motor runs—raises unloaded lift but will not raise vehicle.	<ol style="list-style-type: none"> 1. Motor running on low voltage. 2. Debris in lowering valve. 3. Improper relief valve adjustment. 4. Overloading lift. 	<ol style="list-style-type: none"> 1. Supply correct voltage to motor. 2. Clean lowering valve. 3. Replace relief valve cartridge. 4. Check vehicle weight and/or balance vehicle weight on lift.
Lift slowly settles down.	<ol style="list-style-type: none"> 1. Debris in check valve seat. 2. Debris in lowering valve seat. 3. External oil leaks. 	<ol style="list-style-type: none"> 1. Clean check valve. 2. Clean lowering valve. 3. Repair external leaks.
Slow lifting speed or oil blowing out filler breather cap.	<ol style="list-style-type: none"> 1. Air mixed with oil. 2. Air mixed with oil suction. 3. Oil return tube loose. 4. Slider blocks need lubricating. 	<ol style="list-style-type: none"> 1. Change oil to Dexron II ATF. 2. Tighten all suction line fittings. 3. Reinstall oil return tube.
Lift going up unlevel.	<ol style="list-style-type: none"> 1. Equalizer cables out of adjustment. 2. Lift installed on unlevel floor. 	<ol style="list-style-type: none"> 1. Adjust equalizer cables to correct tension. 2. Shim lift to level columns (Not to exceed $\frac{1}{8}$"). If over $\frac{1}{2}$" break out floor and level per lift installation instructions.
Anchors will not stay tight.	<ol style="list-style-type: none"> 1. Holes drilled oversize. 2. Concrete floor thickness or holding strength not sufficient. 	<ol style="list-style-type: none"> 1. Relocate lift using a new bit to drill holes. 2. Break out old concrete and repour new pads for lift per lift installation instruction.
Locking latches do not engage.	<ol style="list-style-type: none"> 1. Latch shafts rusted. (Usually occurs on outside installations or in high humidity areas such as vehicle wash bays.) 2. Latch spring broken. 3. Air valve stuck open. 	<ol style="list-style-type: none"> 1. Remove covers, oil latch mechanism. Depress latch release toggle several times to allow oil to coat shaft. 2. Replace broken spring. 3. Cycle toggle, replace valve if necessary.
Locking latches do not disengage.	<ol style="list-style-type: none"> 1. No air supply. 2. Air valve stuck closed. 3. Air leak. 	<ol style="list-style-type: none"> 1. Check tubing and compressor. 2. Cycle toggle, replace valve if necessary. 3. Check tubing.

**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.



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