



SM4T

Capacity 4082 kg (9000 lbs)
2041kg (4500 lbs) per axle

Maximum Wheelbases: 3861mm (152")
Minimum Wheelbase At Rated Capacity: 2515mm (99")

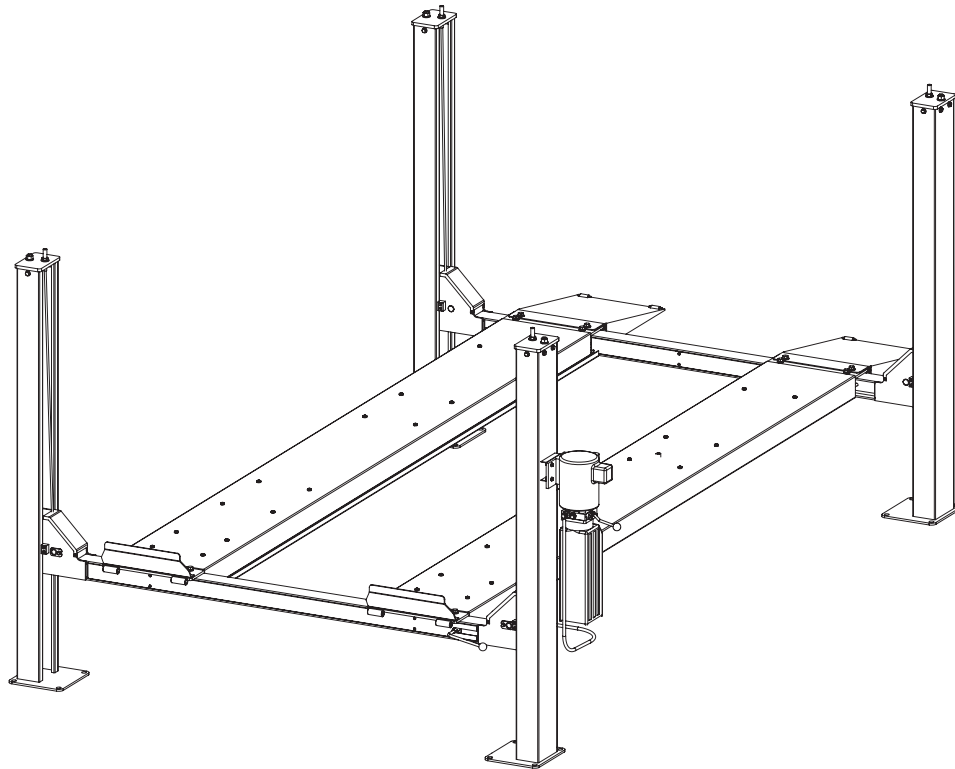


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The Owner/Employer:

- 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-2000, 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.
- The Owner/Employer shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2000, 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.
- The Owner/Employer shall establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2000, 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.
- The Owner/Employer shall maintain the periodic inspection and maintenance records recommended by the manufacturer or ANSI/ALI ALOIM-2000, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance.
- 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-2000, 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.
- The Owner/Employer 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.
- The Owner/Employer shall not modify the lift in any manner without the prior written consent of the manufacturer.

SAFETY INSTRUCTIONS

- Never allow unauthorized or untrained persons to operate lift or rolling jacks.
- Shop Policy should prohibit customers or non-authorized persons from being in shop area while lift is in use.
- Thoroughly train all employees in the use and care of lift and rolling jacks.
- Be Sure no one is standing in front or behind lift while vehicle is being driven onto or backed off the lift.
- DO NOT allow rear tires or portion of vehicle to interfere with ramp/chocks.
- Be Sure front wheel stops are in raised position before driving vehicle onto lift.
- Never allow front wheels to strike the front wheel stops.
- DO NOT permit employees or customers on lift when it is either being raised or lowered.
- Always stand clear of lift when raising or lowering and observe Pinch Points.
- Never overload lift: capacity of lift is 4082 kg (9000 lbs) 2042 kg (4500 lbs) per axle). CAPACITY SHOULD NOT BE EXCEEDED.
- Always engage parking brake and use the rear wheel chocks to keep the vehicle from rolling freely on the runways.
- Always lower lift on locks before working on vehicle.
- Keep area around lift clean of tools, debris, grease, and oil.
- Always keep runway clean.
- Replace all caution, warning, or safety related decals on the lift when unable to read or missing.
- Never use work step while lift is in a raised position.

OPERATING INSTRUCTIONS

⚠️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.

Observe and heed SAFETY and WARNING labels on the lift.

1. Loading: Lift must be fully lowered and no one in service bay while the vehicle is brought on lift.
2. If lift is equipped with rolling jacks, jacks must be fully lowered and the rear jack pushed toward center of lift to provide under car clearance.
3. Stop vehicle when it contacts the front wheel stops. At all times, be sure rear wheels are forward of the ramp/chocks and the ramp/chocks will clear tires when the lift is raised, Fig. 1. Driver and passengers must exit before raising.
4. Place wheel chocks on each side of one of the rear tires, Fig. 1.
5. To Raise Lift: Push the "RAISE" button on the power unit. Release button at desired height, Fig. 2.
6. Push down on Lowering Valve to lower lift onto locking latches.
7. For Rolling Jack Operating Instructions see Rolling Jack Installation, Operation and Maintenance Instructions in the rolling jack shipping carton.

8. Before Lowering Lift: Be sure no one is in the lift area and that all tools, tool trays, etc. have been removed from under the lift and vehicle.

⚠️WARNING The runways, ramps and connecting yokes at each end of lift are designed to rest on the floor when fully lowered. Observe pinch point warning, Fig. 3.

9. Repeat Step 2.
10. To Lower Lift: Press raise button on power unit until you clear locking latches.
11. Actuate the latch release handle to disengage all four locking latches, Fig. 2. Hold handle until lift has fully lowered.

Note: If latch release handle is released, the latches will automatically reset to the engaged position.

12. Push the lowering handle on the power unit to lower lift, Fig. 2. Lowering speed can be controlled by the force applied to the lowering handle.
13. Observe lift and vehicle to be sure lift is level while being lowered. If not, STOP repeat Steps 10 through 14.
14. Fully lower lift, remove the wheel chocks and check to be sure area is clear before removing vehicle from lift, Fig. 1.
15. If your lift is not operating properly, DO NOT use until adjustments or repairs have been made by qualified lift service personnel.

⚠️WARNING Keep hands clear of yoke ends while the lift is being raised or lowered, Fig. 3.

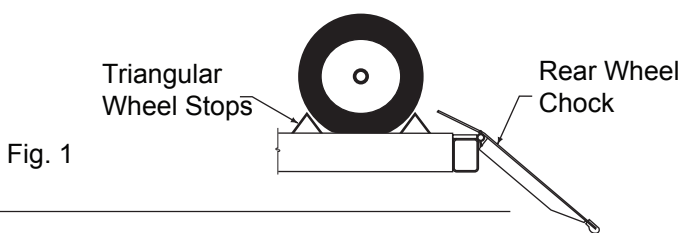


Fig. 1

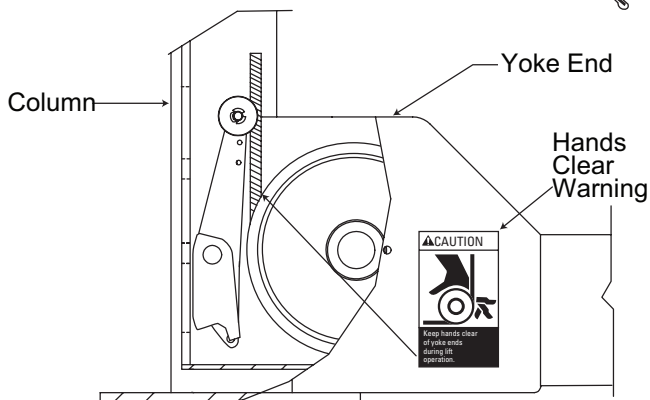


Fig. 3

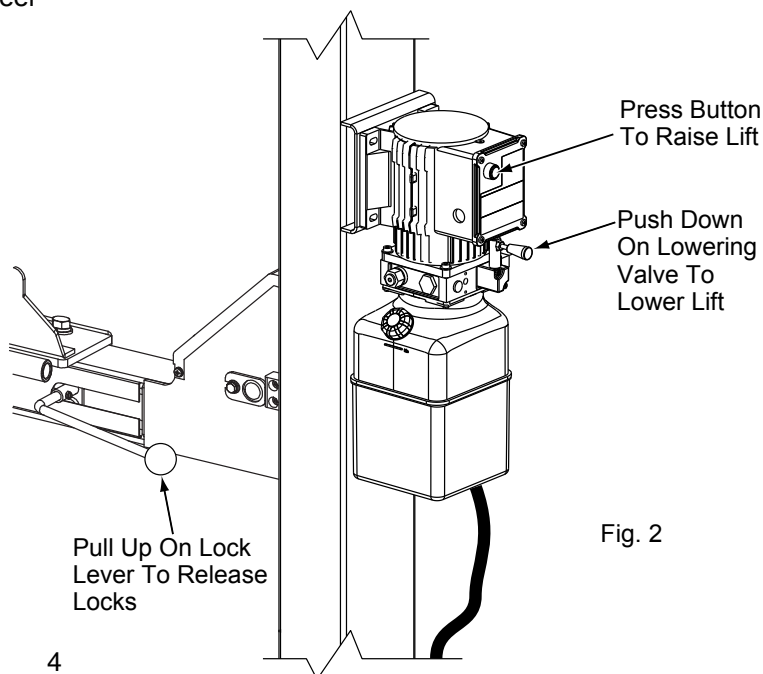


Fig. 2

MAINTENANCE INSTRUCTION

⚠ WARNING If you are not completely familiar with automotive lift maintenance procedures, STOP. Contact factory for instructions.

To Avoid Personal Injury, permit only qualified lift service personnel to perform maintenance on this equipment.

- Periodically: Check all column, lift/runway attaching bolts for tightness.
- Always raise lift when cleaning floor area with solvents and/or cleaning compounds.
- Always: Replace slack cable device springs when replacing new cables.
- 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 front wheel stops and ramp/chocks for damage or excessive wear. Replace as required with genuine Rotary parts.
- Daily: Check locking latch operation and reset. Adjust per instructions or repair if required with genuine Rotary parts.
- Weekly: Clean foreign debris from rear wheel slip plates and turning radius gauges by blowing out with shop air. DO NOT GREASE BALL BEARINGS.
- Weekly: Check torque on the column anchor bolts per specifications .
- Monthly: Check 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: Check level of runway. Adjust per instructions.
- Monthly: Lubricate Guide on each turning radius (where applicable) with a dry film lubricant. Clean and lubricate more often as conditions warrant.
- Semi-Annually: Check fluid level of lift power unit and refill if required. If fluid is required, inspect all fittings, hoses and seals. Repair as required.
- Semi-Annually: Lubricate ramp/ chock hinge pins.

IMPORTANT Cable adjustment should be checked by a Rotary Authorized Installer after the first 50 loaded lift cycles and after 300 loaded lift cycles.

- For Rolling Jack Maintenance Instructions see Rolling Jack Installation, Operation and Maintenance Instructions in the rolling jack box.

TROUBLE SHOOTING

Trouble	Cause	Remedy
Motor does not run.	<ol style="list-style-type: none"> 1. Check fuse or circuit breaker. 2. Check for correct voltage to motor. 3. Inspect all wiring connections. 4. Switch burned out. 5. 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 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 fluid level. 	<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. Trash 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 lifts.
Lift slowly settles down.	<ol style="list-style-type: none"> 1. Trash in check valve seat. 2. Trash in lowering valve seat. 3. External fluid leaks. 	<ol style="list-style-type: none"> 1. Clean check valve. 2. Clean lowering valve. 3. Repair external leaks.
Slow lifting speed or fluid blowing out filler breather cap.	<ol style="list-style-type: none"> 1. Air mixed with fluid. 2. Air mixed with fluid suction. 3. Fluid return tube loose. 	<ol style="list-style-type: none"> 1. Change hydraulic fluid to Dexron III ATF. 2. Tighten all suction line fittings. 3. Reinstall fluid return tube.
Lift going up unlevel.	<ol style="list-style-type: none"> 1. Cables out of adjustment. 2. Lift installed on unlevel floor. 	<ol style="list-style-type: none"> 1. Adjust slack out of cable. 2. Shim lift to level columns (Not to exceed 1/2 " per column).
Lift stops short of full rise or chatters.	<ol style="list-style-type: none"> 1. Low on fluid. 	<ol style="list-style-type: none"> 1. Check fluid level and bleed cylinder. If fluid is required inspect all fittings, hoses, and seals. Repair as required. Clean power unit pickup stub filter.
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. Use a fast setting cement to pour into oversize holes and reset anchors -or- relocate lift using a new bit to drill holes. 2. Break out old concrete and repour new pads for lift.
Lift will not lower.	<ol style="list-style-type: none"> 1. Latches out of adjustment. 	<ol style="list-style-type: none"> 1. Check latches.

LIFT LOCKOUT/TAGOUT PROCEDURE

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 noticeable 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.
- 2) 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).

Installer: Please return this booklet to literature package and

GIVE TO LIFT OWNER/OPERATOR.

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

Contact Your Nearest Authorized Rotary Parts Distributor for Genuine Rotary Replacement
Parts. See Literature Package for Parts Breakdown.

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