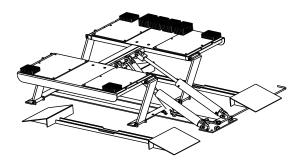
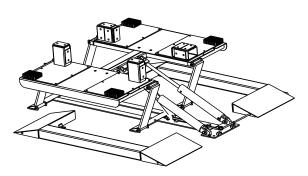
INSTALLATION INSTRUCTIONS Low Rise Car Lift

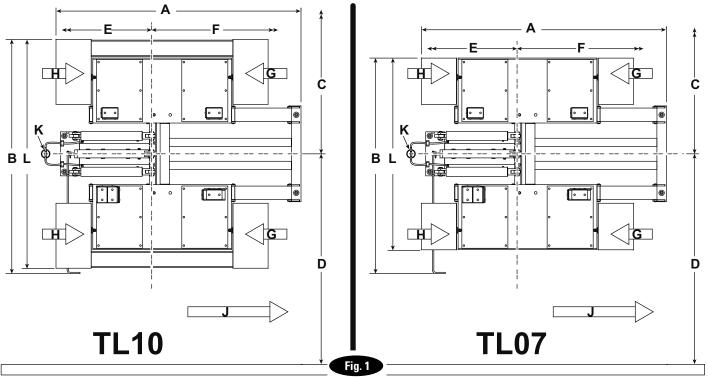
TL07

Capacity 7000 lbs. (Maximum 1750 lbs. per pad) **TL10**

Capacity 10,000 lbs. (Maximum 2500 lbs. per pad)







CLEARANCE AROUND TL10

| Α. | Overall Length | 7'-7" (2311mm) |
|----|--------------------------------------------|-----------------|
| B. | Overall Width | 7'-3" (2210mm) |
| C. | Minimum To Center Of Next Lift | 11'-0" (3353mm) |
| D. | Minimum To Nearest Obstruction | 5'-0" (1981mm) |
| E. | Minimum For 24' (7315mm) Bay | |
| | Standard Approach (G) | 10'-9" (3277mm) |
| | Optional Approach (H) | 13'-3" (4039mm) |
| F. | Minimum For 24' (7315mm) Bay | |
| | Standard Approach (G) | 13'-3" (4039mm) |
| | Optional Approach (H) | 10'-9" (3277mm) |
| G. | Approach | |
| Н. | Approach (Optional) | |
| 1 | At Full Rico Lift Movee 15" In This Direct | ction |

- At Full Rise Lift Moves 15" In This Direction
- 2" Conduit to Power Unit (Optional).
- Width of Platform/Base7'-1/2" (2146mm)

CLEARANCE AROUND TL07 LIFT

| A. | Overall Length | 7'-7" (2311mm) |
|----|--------------------------------|-----------------|
| В. | _ | |
| C. | Minimum To Center Of Next Lift | 11'-0" (3353mm) |
| D. | Minimum To Nearest Obstruction | 5'-0" (1981mm) |
| E. | Minimum For 24' (7315mm) Bay | |
| | Standard Approach (G) | 10'-9" (3277mm) |
| | Optional Approach (H) | 13'-3" (4039mm) |
| F. | Minimum For 24' (7315mm) Bay | |
| | Standard Approach (G) | 13'-3" (4039mm) |
| | Optional Approach (H) | 10'-9" (3277mm) |
| G | Δnnroach | |

- Approach (Optional)
- At Full Rise Lift Moves 15" In This Direction
- 2" Conduit to Power Unit (Optional).
- Width of Platform/Base5'-11" (1803mm)

NOTE:

Lift can be installed with cylinder end pointing towards front or rear of bay. Be alert to differences in lift clearance requirements according to installation option chosen and customer preference.

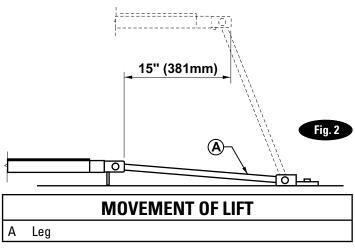
1. Lift Location: Always check architect's building plans when applicable. The lift should be located on a relatively level floor in a space which will allow adequate working space around the vehicle, Fig. 1.

Note: Lift can be installed with cylinder end pointing towards front (typical) or rear of bay. Be alert to differences in lift clearance requirements according to installation option chosen and customer preference.

DO NOT install on asphalt or other similar unstable surfaces.

Note: At full rise, the lift moves the vehicle 15" (381mm), Fig. 2.

2. Remove shipping bands and wood skids from lift.



3. Anchoring:

- A. The anchor bolts must be installed at least 5-11/16" (145mm) from any edge or seam in the concrete
- B. Concrete shall have a compression strength of at least 3,000 PSI (20N/mm²) and a minimum thickness of 4-1/4" (108mm) in order to achieve a minimum anchor embedment of 3-1/4" (83mm). When using the standard supplied 3/4" x 5-1/2" Ig. anchors, if the top of the anchor exceeds 2-1/4" above the floor grade, you DO NOT have enough embedment.
- C. Drill (8) 3/4" dia. holes in concrete floor using holes in base plate as a guide, see Fig. 3 & 4.

Note: DO NOT install anchors in holes marked "B" until AFTER lift is raised, see Fig. 4.

<u>ACAUTION</u> DO NOT install on asphalt or other similar unstable surfaces.

D. Tighten the anchor bolts to 150 ft-lbs (203 N-m). Do not use an impact wrench on anchor bolts.
 If after tightening the anchor supplied with the lift extends more than 2-1/4" (57mm) above the floor the anchor does not have enough embedment.

IMPORTANT If an anchor will not reach the appropriate

torque level or does not have enough embedment or adequate spacing cannot be achieved, replace the concrete under the lift with an 7' wide x 9' deep x 6" thick pad $(2m \times 2.7m \times 152mm)$ of 3,000 psi $(20N/mm^2)$ concrete keyed under the existing floor. Let the concrete cure before reinstalling the lift.

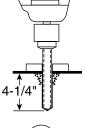
IMPORTANT The frame must not be twisted, bent or

otherwise misaligned by unlevel floors or improper anchoring. Misalignment will cause damage to the lift. Maximum out-of-level at anchors is: 1/4" (6mm) side to side; 1/2" (13mm) front to rear. If floor is crowned more than 1/4" (6mm) between front to rear anchors, shim at anchors. Top structure to be parallel to bases within 1/4" (6mm). Use shim kit FJ2426, or use grout to level the floor.

ANCHOR LOCATIONS

- A Holes not used
- B Drill (2) holes for 3/4" anchors through top, install after raising.
- C Drill (6) holes and install 3/4" anchors.

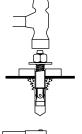
ANCHORING LIFT



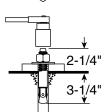
Drill hole using 3/4" carbide tipped masonry drill bit per ANSI standard B94.12.1977.



Clean Hole.



Run nut down just below impact section of bolt. Drive anchor into hole until nut & washer contact base.



Tighten nut with Torque Wrench to 150 ft-lbs (203 N-m)

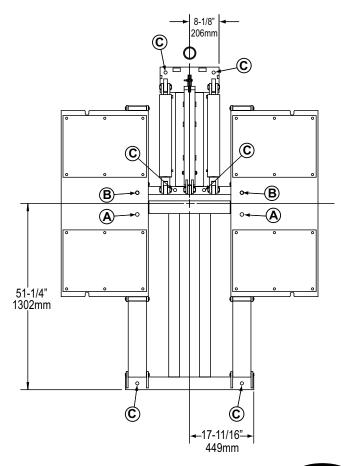


Fig. 3

Fig. 4

4. Install Power Unit And Mounting Post:

- A. Refer to architect's plan for placement of power unit mounting post. Using the stand as a template mark location of (4) floor anchor holes. Note, the post uses a 1/2" diameter anchor which is different from the lift. Using a 1/2" carbide drill bit, drill and install anchors for the post.
- B. Attach four 5/16" x 1-1/4" bolts to the highest two and lowest two holes in the mounting bracket with 5/16" plain nuts. Attach the power unit, to these bolts and secure with 5/16" nylon insert nuts.
- C. Add fluid. Remove the fill-cap from the tank and fill with Dexron III ATF or hydraulic oil that meets ISO 32, until fluid reaches the MIN_____ mark on the power unit. Replace the fill-cap.

5. Electrical:

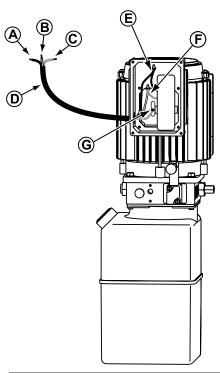
A. The power unit comes completely wired and ready to plug into a 115 volt, single phase, 60 Hz. Circuit. A six foot, 3-wire power cord with grounding plug is provided. See Motor Operating Data Table, Fig. 5.

IMPORTANT Use separate circuit with time delay fuse or circuit breaker for each power unit. For single phase 115V use 25 amp. fuse. Wiring and power unit locations must comply with local electrical codes.

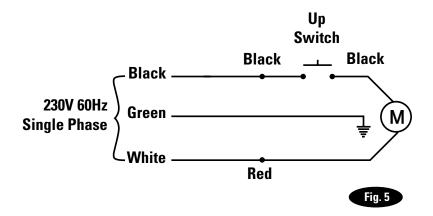
B. Optional 208V-230V operated: Have a certified electrician run 230V single phase 60Hz power supply to 2 HP motor, Fig. 5. Size wire for 20 amp circuit. See Motor Operating Data table.

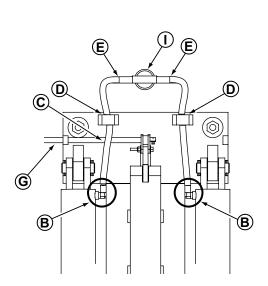
Single Phase Power Unit

| Motor Operating Data - Single Phase | | |
|-------------------------------------|------------------------------------------|--|
| Line Voltage | Line Voltage Running Motor Voltage Range | |
| 208-230 Volts 60 HZ | 197-253 Volts | |
| Motor Operating Data - Single Phase | | |
| Line Voltage | Running Motor Voltage Range | |
| 115 Volts 60 HZ | 103-127 Volts | |

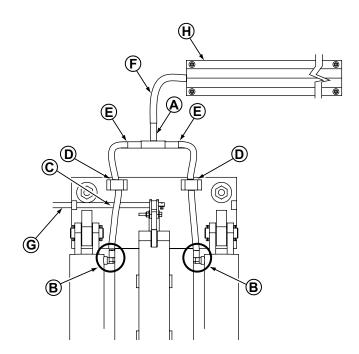


| | Power Unit Wiring Detail |
|---|----------------------------------|
| Α | Black Wire |
| В | White Wire |
| С | Green Wire |
| D | 208-230V 60HZ Single Phase |
| Ε | Attach Black Wire to Black Wire. |
| F | Attach White Wire to Red Wire |
| G | Attach Ground Wire here. |





Hose Routing (with Conduit)



Hose Routing (with Hose Guard)

Fig. 6

6. Running Hoses And Bleeding The Hydraulic System:

- A. AWARNING When attaching hydraulic fittings with pipe threads to the cylinders use Teflon tape. DO NOT start the Teflon tape closer than 1/8" (3mm) from the end of the fitting. Failure to comply may cause damage to the hydraulic system.
- B. **AWARNING** When tightening connections with

flared (JIC) fittings, always follow the following tightening instructions. Failure to follow these instructions may result in cracked fittings and / or leaks.

Use the proper size wrench. The nut portion of the fitting is the only part that should turn during tightening. The flare seat MUST NOT turn. Screw the fittings together hand tight. Using a 11/16" wrench to rotate the nut portion of the fitting 2-1/2 hex flats.

Back the fitting off one full turn. Again, tighten the fitting hand tight, then rotate the nut portion of the fitting 2-1/2 hex flats.

- C. Connect the long hydraulic hose to the branch on the JIC tee fitting, Fig 6 (F).
- D. Connect a male pipe thread to male JIC elbow to the port near the base end of each cylinder. The fittings should face toward the front of the lift (towards conduit or hose guard) and up 5 to 10 degrees, the cylinders will rotate upward as the lift rises, Fig. 6 (B).
- E. Connect the short hydraulic hoses to the elbows on the cylinders, Fig. 6 (B). These connections should be hand-tight only. Feed the free ends of the hoses thru the hose guides, Fig. 6 (C & D) .
- F. Connect short hoses to the runs on the JIC tee fitting, Fig. 6 (E).

- A JIC tee fitting
- B JIC elbows
- C Short hydraulic hose to be routed over latch release handle as shown.
- D Feed the free ends of the short hydraulic hoses thru the hose guides as shown.
- E Short hoses to be connected to the runs on the JIC tee fitting.
- F Long hydraulic hose to be either routed through 2" conduit or through the hose guard as shown. This is according to the installation option chosen by customer.
- G Latch release handle
- Hose guard (Note: Hose guards are not to be used if conduit is in concrete, DO NOT anchor at this time.)
- 2" conduit to power unit
- G. With the lift at it's lowest position loosen the connections between the hoses and fittings attached to the cylinders. Do not loosen the connections between the fittings and the cylinders themselves.
- H. Run the power unit until fluid appears at the cylinder ports. Tighten the hose connections.
- I. Add fluid to the system as previously described.

7. Positioning The Ramps:

- A. The ramps should be positioned as shown in Fig. 7, with a minimum of 1/2" (3mm), Dimension (A), clearance between the ramp and the front edge of the pad opposite the cylinders and 5/8" (16mm), Dimension (B), clearance between the outside surfaces of the pad and the inside surface of the ramps. DO NOT DRILL ANCHOR HOLES AT THIS TIME!
- B. Raise and lower the lift through one cycle and ensure there is adequate clearance between the ramps and the pad.

8. Installing The Lock Release Handle:

- A. Insert the latch release handle through the access hole in the ramp nearest the power unit.
- B. Insert the keyed end of the handle through the keyway in the latch release weldment as shown in Fig. 8.
- C. Install the roll pin into the end of the handle as shown in Fig. 8.

9. Anchoring The Ramps:

Note the ramps use a 1/2" diameter anchor which is different from the lift. Using a 1/2" carbide drill bit, drill holes and install (4) anchors to the ramps.

RAMP CLEARANCE TABLE

- 1/2" (13mm) minimum clearance.
- B 5/8" (16mm) minimum clearance.
- C Anchor hole locations for wheel dish.

10. Installing Hose Guard:

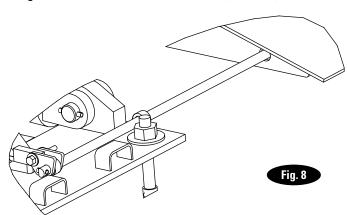
Note: Hose guards ARE NOT to be used if conduit is in concrete.

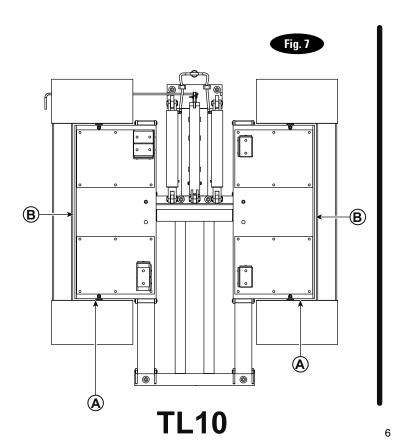
- A. Postion hose guard over hose. Note: Hose guard is to be used to prevent damage of hose when driven over and to prevent tripping.
- B. Drill (4) 1/4" anchor holes and install anchors.

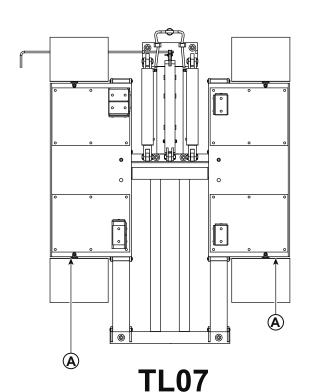
11. Final Adjustments:

A. Install and tighten the remaining two anchors as described in Fig. 4.

- B. If any problems are encountered, do not proceed with subsequent steps. Instead, resolve the problem before proceeding by referencing the Troubleshooting portion of the Owner's Manual section of this manual.
- C. Raise the lift empty to the top of its travel and lower it the floor three (3) times to remove the remaining air from the hydraulic system and to verify that the power unit won't stall at relief pressure.
- D. Position a vehicle on the lift, raise to full height and lower onto the safety latches. Lower the vehicle to the floor.
- E. After cycling the lift ten times with a vehicle on it, recheck the tightness of the lift anchors to 90 ft-lbs (122 N-m).





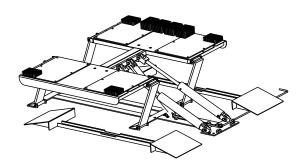


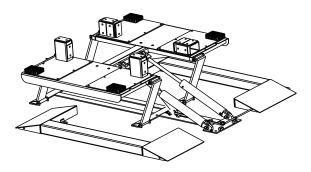
PARTS BREAKDOWN Low Rise Car Lift

TL07

Capacity 7000 lbs. (Maximum 1750 lbs. per pad) **TL10**

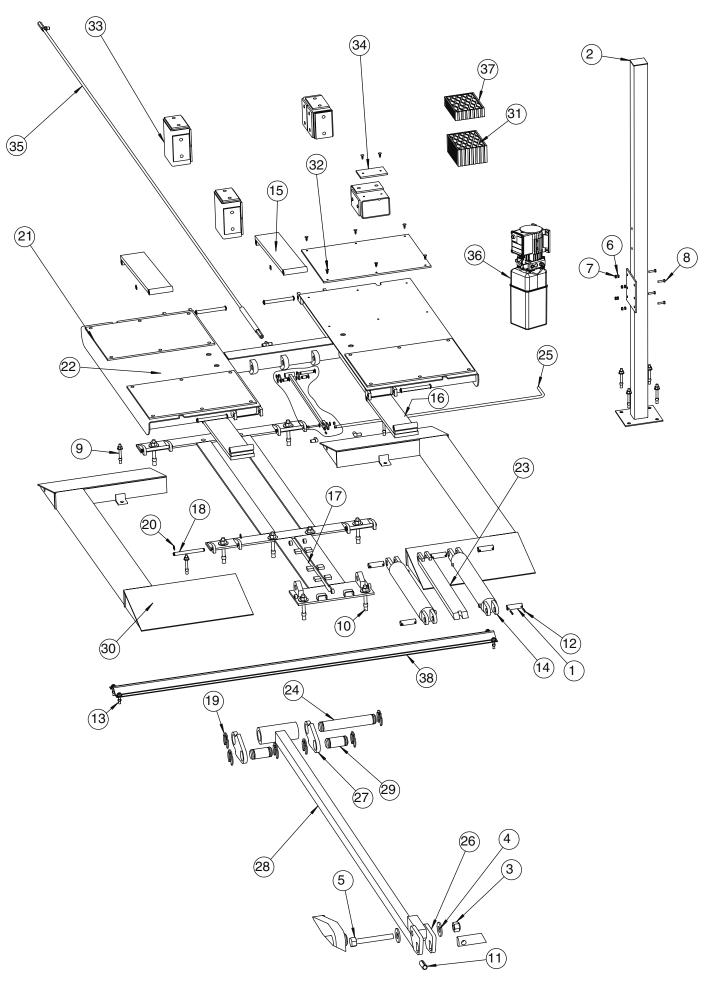
Capacity 10,000 lbs. (Maximum 2500 lbs. per pad)





| 1. | CYLINDER PIN | 021420 |
|-----|-------------------------------|---------|
| 2. | 7' POWER UNIT MOUNT | 021704 |
| 3. | 1/4"-20 NYLON INSERT HEX NUT | 911403 |
| 4. | 1/4" FLAT WASHER | 911405 |
| 5. | 1/4"-20 HHCS X 2" LG. | 911481 |
| 6. | 5/16"-18 HEX NUT | 911701 |
| 7. | 5/16"-18 NYLON INSERT HEX NUT | 911703 |
| 8. | 5/16"-18 HHCS X 1-1/4 LG. | 911751 |
| 9. | 1/2" X 4-1/4" ANCHOR BOLT | 912728 |
| 10. | 3/4" X 5-1/2" ANCHOR BOLT | 913828 |
| 11. | SPRING PIN | 0970609 |
| 12. | ROLL PIN X 1-1/2" | 991060 |
| 13. | HOSE GUARD ANCHOR | 991345 |
| 14. | CYLINDER | 992305 |
| 15. | REAR LEG | 1010100 |
| 16. | FRONT LEG | 1010101 |
| 17. | BASE | 1010106 |
| 18. | LEG PIN | 1010116 |
| 19. | 1/2" KLIP-RING | 1010117 |
| 20. | 5/8" KLIP-RING | 1010118 |
| 21. | RUBBER PAD | 1010400 |
| 22. | TOP STRUCTURE | 1010401 |
| 23. | LOCKING LEG | 1010500 |
| | | |

| 24. | LATCH PIN | 1010505 |
|-------------------------------|------------------------------------|---------|
| 25. | LATCH RELEASE HANDLE | 1010509 |
| 26. | LATCH RELEASE KEYED PIVOT | 1010510 |
| 27. | LATCH RELEASE PIVOT | 1010511 |
| 28. | LATCH RELEASE | 1010513 |
| 29. | LATCH PIN | 1010514 |
| 30. | RAMP | |
| | TL10 (Shown) | 1010600 |
| | TL07 (Not Shown) | 1010605 |
| 31. | 3" RUBBER ADAPTER (TL07 Only) | FJ2428 |
| 32. | CHRISTMAS TREE FASTENER | 1010906 |
| 33. | ADAPTER ASSEMBLY (TL10 Only) | 1010907 |
| 34. | RUBBER PAD (VLXS10 Only) | 1010908 |
| 35. | HYDRAULIC KIT | 1010909 |
| | 17" HYDRAULIC HOSE | 992217 |
| | 3/8" MJIC TEE | 992502 |
| | 3/8" MJIC x 3/8" MNPT 90° ELBOW | 992402 |
| | 9/16" O-RING x 3/8" MJIC 90° ELBOW | FJ7224 |
| | 117-1/2" HYDRAULIC HOSE* | 992131 |
| | 180" HYDRAULIC HOSE | 992517 |
| 36. | 115V 60Hz POWER UNIT | P1083 |
| 37. | 1-1/2" RUBBER ADAPTER | FJ2427 |
| 38. | HOSE GUARD | 021730 |
| *Hose used prior to Jan. 2008 | | |

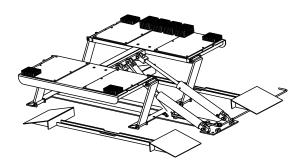


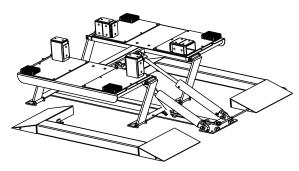
OPERATION MANUALLow Rise Car Lift

TL07

Capacity 7000 lbs. (Maximum 1750 lbs. per pad) **TL10**

Capacity 10,000 lbs. (Maximum 2500 lbs. per pad)





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 TL10 lift is 10,000 lbs., 2500 lbs. per pad. Capacity of TL07 lift is 7000 lbs., 1750 lbs. per pad.
- Do Not stand in front of the lift or vehicle while it is being positioned in lift bay.
- Before driving vehicle into lift bay, BE SURE lift is fully lowered.
- Load vehicle on lift carefully. Position lift adapters to contact at the vehicle manufacturer's recommended lift
 points. Raise lift until until adapters contact vehicle. Check adapters for secure contact with vehicle. Raise lift to
 desired working height.

ACAUTION 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.
- Remain clear of lift when raising or lowering vehicle.
- Always lower lift completely and disconnect power source before disconnecting hydraulic lines.
- · Avoid excessive rocking of vehicle while on lift.
- Clear area if vehicle is in danger of falling.
- **Completely** lower lift before removing vehicle from lift area.
- Release locking latches before attempting to lower lift.

IMPORTANT The locking leg latch will reset automatically ONLY when the lift is fully lowered. If during the lowering process the lift is stopped before it gets to the fully lowered position, the locking leg MUST be reset by manually rotating the latch release handle.

OWNER/EMPLOYER RESPONSIBILITIES

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

OPERATING INSTRUCTIONS

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

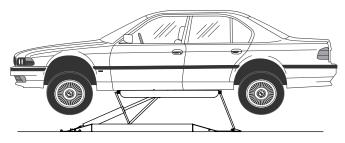
Always lift the vehicle using all four adapters. <u>NEVER</u> raise just one end, one corner, or one side of vehicle.

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

- 1. Lift must be fully lowered and service bay clear of all personnel before the vehicle is brought on lift.
- 2. Spot vehicle over lift in proper position, Fig. 1. Be sure vehicle wheels and/or mud flaps clear pad end ramps.



Vehicle Spotting Position

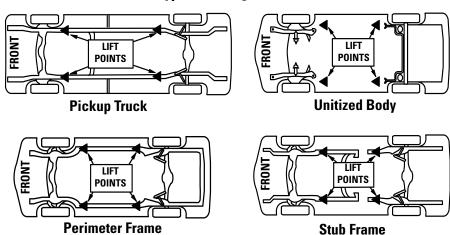


Vehicle Loading Position

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



Typical Lifting Points



NOTE: Some vehicles may have the manufacturer's Service Garage Lift Point locations identified by triangle shape marks on it's undercarriage (reference ANSI/SAE J2184-1992). 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" illustrated herein. ALWAYS follow the operating instructions supplied with the lift.

3. Loading: IMPORTANT Vehicle manufacturer's recommended pick up points MUST be able to be engaged by lift structure or adapter blocks. Vehicle frame MUST be strong enough to support it's weight and has not been weakened by modification or corrosion. DO NOT raise limousines, specialty, or other modified vehicles.

Before lifting vehicle be sure that:

- A. Pads are in secure contact with frame or support structure at vehicle manufacturer's recommended pick up points.
- B. Certain vehicles such as Camaro, Firebird, Escort, or Chrysler "K" Cars or others may require additional clearance under carriage or exhaust system from contacting pad support. Use auxillary adapters. Locate at vehicle manufacturer's recommended pick up points.

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

4. To Raise Lift:

- A. Push Raise Switch (A) on power unit, Fig. 2.
- B. Stop before making contact with vehicle. Be sure wheels and/or mud flaps clear pad end ramps.
- C. Raise vehicle until tires clear the floor.
- D. Stop and check pads for secure contact at vehicle manufacturer's recommended lift points.
- E. Continue to raise to desired height only if vehicle is secure on lift.
- Repeat complete spotting, loading and raising procedures if required.
- H. Actuate Lowering Handle (B), Fig. 2, to lower lift onto locking latches.

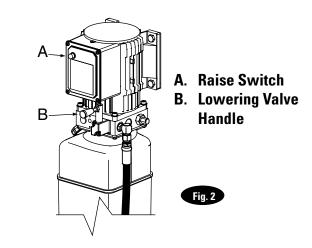
ACAUTION DO NOT go under vehicle if locking latches are not engaged.

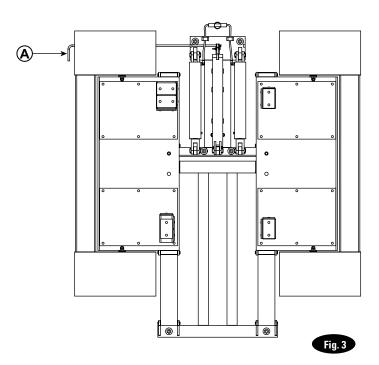
- 5. While Using Lift:
 - A. Avoid excessive rocking of vehicle while on lift.
- 6. To Lower Lift:
 - A. Remove all tools, bystanders, and other objects from lift area.
 - B. Raise lift off locking latches.
 - C. Rotate Latch Release Handle, Fig. 3.
 - D. Push Lowering Valve Handle (B) to lower lift, Fig. 2.

Note: The Lowering Valve Handles are deadman-type design. Each must be held down to lower lift.

ACAUTION D0 NOT override self-closing lift controls.

- 7. Remain clear of lift when lowering vehicle.
- 8. Remove adapters from under vehicle. Be sure lift is fully lowered before removing vehicle.
- If lift is not operating properly, **Do Not** use until adjustment or repairs are made by qualified lift service personnel.





A. Latch Release Handle

MAINTENANCE INSTRUCTIONS

AWARNING 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.

Use only genuine Rotary replacement parts for repairs.

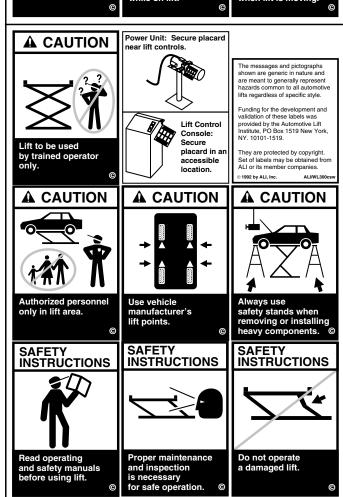
- Always keep all bolts tight. Check periodically.
- Always raise lift when cleaning floor area.
- · Always keep lift clean.
- Daily: Inspect adapters for damage or excessive wear.
 Replace as required.
- Daily: Check latch release handle on lift for damage or binding.
- Weekly: Inspect all lift parts for signs of damage due to overloading and rough handling.
- Monthly: Lubricate cylinder/locking leg bolt and locking leg release handle pivot.
- Monthly: Lubricate hinge joints if excessive rusting occurs.
- Semi-Annually: Check fluid level of lift power unit. With lift fully lowered, fluid should be at MIN____ mark on tank. Refill if required per lift installation instructions. If fluid is required, inspect all hoses and seals. Repair as required.
- Every 3 Months: Check anchor bolts for tightness.
 Anchors should be torqued to 90 ft. lbs. (122 N-m).
- 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.

SAFETY WARNING LABELS FOR HINGED FRAME ENGAGING LIFTS

Lift Owner/User Responsibilities:

- A. This Safety Warning placard
 SHALL be displayed in a
 conspicuous location in the lift area.
- B. Use one of the mounting arrangements illustrated on back of this placard.
- C. These Safety Warning labels supplement other documents supplied with the lift.
- D. Be certain all lift operators read and understand these labels, operating instructions and other safety related information supplied with the lift.





TROUBLE SHOOTING

| Trouble | Cause | Remedy |
|------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------|
| Electric motor does not run. | 1. Check fuse or circuit breaker. | Replace blown fuse or reset circuit breaker. |
| | 2. Check for correct voltage to motor. | 2. Supply correct voltage to motor. |
| | 3. Inspect all wiring connections. | 3. Repair and insulate all connections. |
| | 4. Microswitch burned out. | 4. Replace microswitch. |
| | 5. Motor windings burned out. | 5. Replace motor. |
| Electric motor runs but will not raise lift. | Motor runs in reverse rotation. | Change motor rotation by reversing motor leads. |
| | 2. Open lowering valve. | 2. Repair or replace lowering valve. |
| | 3. Pump sucking air. | 3. Tighten all suction line fittings. |
| | 4. Suction stub off pump. | 4. Replace suction stub. |
| | 5. Low fluid level. | Fill tank with Dexron III ATF or ISO 32 hydraulic fluid. |
| Electric motor runs—raises unloaded lift | Motor running on low voltage. | Supply correct voltage to motor. |
| but will not raise vehicle. | 2. Trash in lowering valve. | 2. Clean lowering valve. |
| | 3. Overloading lift. | 3. Check vehicle weight and/or |
| | Ç | balance vehicle weight on lifts. |
| | 4. Improper relief valve adjustment. | 4. Replace relief valve cartridge. |
| Lift slowly settles down. | Trash in check valve seat. | 1. Clean check valve. |
| , | 2. Trash in lowering valve seat. | 2. Clean lowering valve. |
| | 3. External fluid leaks. | 3. Repair external leaks. |
| Slow lifting speed or fluid blowing out fill/breather cap. | 1. Air mixed with fluid. | Change fluid to Dexron III ATF or ISO 32 hydraulic fluid. |
| , 2. одине. одр. | 2. Air mixed with fluid suction. | 2. Tighten all suction line fittings. |
| | 3. Fluid return tube loose. | 3. Reinstall fluid return tube. |
| Lift going up unlevel. | 1. Lift installed on unlevel floor. | Shim lift to level base, refer to page 2, step 3 in Installation Instruction. |
| Anchors will not stay tight. | Concrete floor thickness or holding strength not sufficient. | Break out old concrete and repour new pad for lift. |

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 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

- 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 $41^{\circ}\text{--}104^{\circ}\text{F}$ (5°-40°C).

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