SL29i/SL212i

(400 Series)

SL29i Capacity 9,000 lbs. SL212i Capacity 12,000 lbs.



OPERATION

&

MAINTENANCE

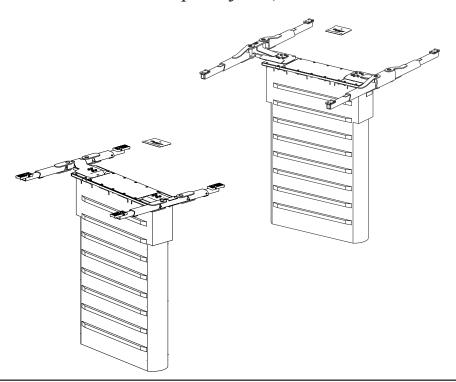


Table Of Contents

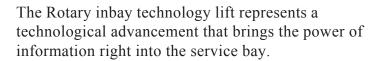
Introduction	. 2
Owner/Employer Responsibilities	. 3
Safety Instructions	. 4
Operating Instructions	. 6
Maintenance Instructions	. 10
Trouble Shooting	. 11
Manual Lowering of Lift	. 14
Date and Time Setting	. 16
Timer and Alarm Setting	. 17
Rotary Contact Information	. 18
Change Language	. 19

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

INTRODUCTION







- **Bay management tools** include owner and operator instructions, maintenance reminders, troubleshooting tips, date and time display and illustrated pickup points.
- Convenience features include integrated air and GFCI-protected electric connections at the control panel, as well as a telephone/data port on the console.
- **Ergonomics** are improved by the use of soft touch membrane controls for single-hand lift operation.
- On-board training is accessible at any time with the touch of a button.
- Advanced safety include an OSHA compliant lockable disconnect switch.
- Audible alarm, with an on/off option, signals when the lowering button has been activated.
- Low voltage operation (24v) in the event of a shorted or grounded circuit reduces the risk of shock.
- Liquid Detection System in the containment housing and on-screen alerts help prevent accumulation of water.







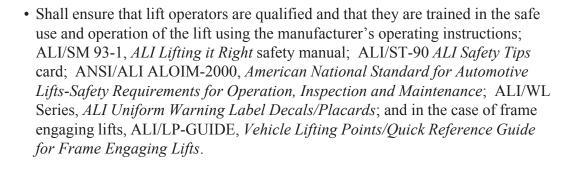


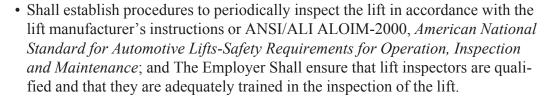


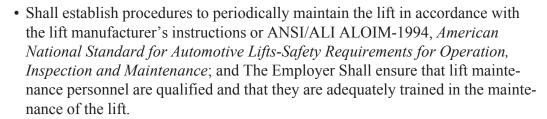


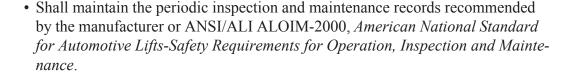
OWNER/EMPLOYER RESPONSIBILITIES

The Owner/Employer:









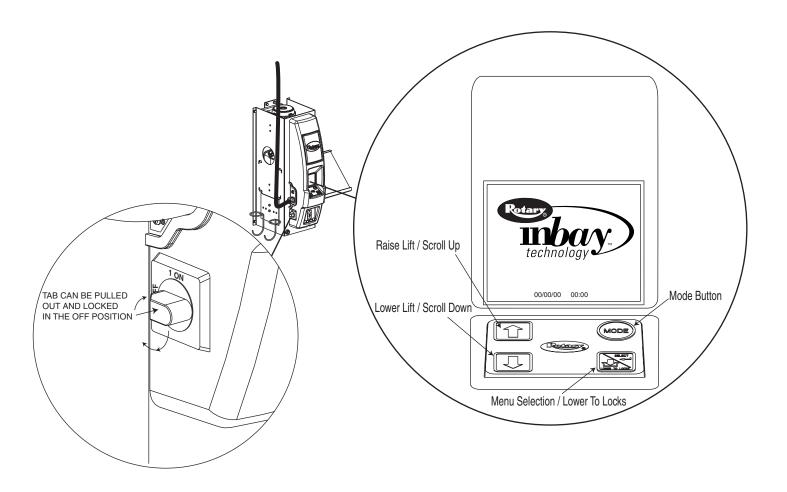
- Shall display the lift manufacturer's operating instructions; ALI/SM 93-1, ALI Lifting it Right safety manual; ALI/ST-90 ALI Safety Tips card; ANSI/ALI ALOIM-1994, American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance; and in the case of frame 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





SAFETY INSTRUCTIONS

inbay Master Control Panel















- **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 Instructions* 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.

SAFETY INSTRUCTIONS













- 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 the lift bay.
- **Do Not** hit or run over lift arms or adapters. This could damage lift or vehicle. Before driving vehicle into bay, position arms and adapters to provide unobstructed entrance onto lift.
- Always use all four adapters when raising vehicle. Never use just two adapters to raise just one side or one end of the vehicle.
- **Load** vehicle on lift carefully. Position lift adapters to contact the vehicle at vehicle manufacturer's recommended lift points.

A WARNING

Position vehicle

WARNING

IMPORTANT The center cover is designed for foot traffic only.

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

- Remain clear of lift and vehicle when lowering.
- 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 latch before attempting to lower lift.
- **Position** lift arms and adapters to provide an unobstructed exit before removing vehicle from lift area.



• **Do Not** perform any maintenance on the power unit, control valves, air or fluid lines, hydraulic cylinders, or check fluid level until lift has been fully lowered and all pressure has been released from system. Follow OSHA Lockout/Tagout procedures as they apply; reference ANSI Z244.1.

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. *NEVER* raise just one end, one corner, or one side of vehicle.

AWARNING

If Lift is not operating properly, DO NOT use until adjustments or repairs are made by a qualified lift service personnel.

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. Do not stand in the front of a moving vehicle.
- **2.** Position lift arms and adapters to provide unobstructed entrance of vehicle onto lift.
- **3. Spotting:** Spot vehicle on lift with left front wheel in proper spotting dish position, Fig. 1.
- **4. Lift Controls:** The lift controls are on the touch pad, Fig. 5. The lift will cease to run when you stop pressing the buttons on the touch pad.
- **5. Loading:** Position arms and adapters at the vehicle manufacturer's recommended lift points. Use intermediate, high step or optional adapters/extensions for under-body clearance when required, Fig. 3 and Fig. 4.

AWARNING Before attempting to lift pick-up trucks or other truck frame vehicles, be sure that:

- A. Vehicle individual axle weight does not exceed one-half lift capacity.
- B. Adapters are in secure contact with frame at vehicle manufacturer's recommended lift points, Fig. 3 and Fig. 4.
- C. Vehicle is stable on lift and neither "front" nor "tail" end heavy.
- D. Adequate overhead clearance is provided to raise vehicle to desired height.
- E. Rotate front and rear adapter to oppose each other when using the high step adapter and/or any auxiliary height extending adapter, Fig. 2.

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

Typical Wheel Spotting Positions

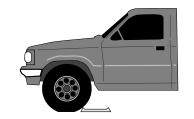


Less than 105" wheelbase: position left front wheel on approach side of wheel dish.

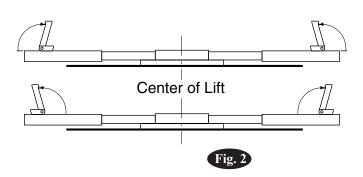


105"-127" wheelbase: position left front wheel in wheel dish.





Larger than 127" wheelbase: position left front wheel just forward of wheel dish.

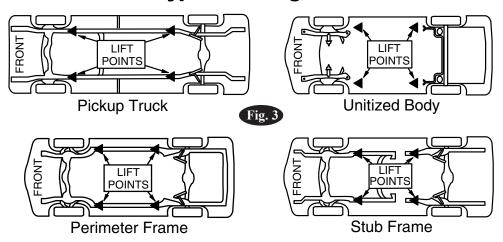






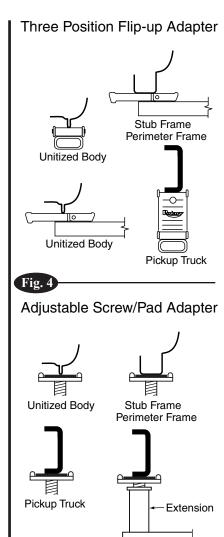


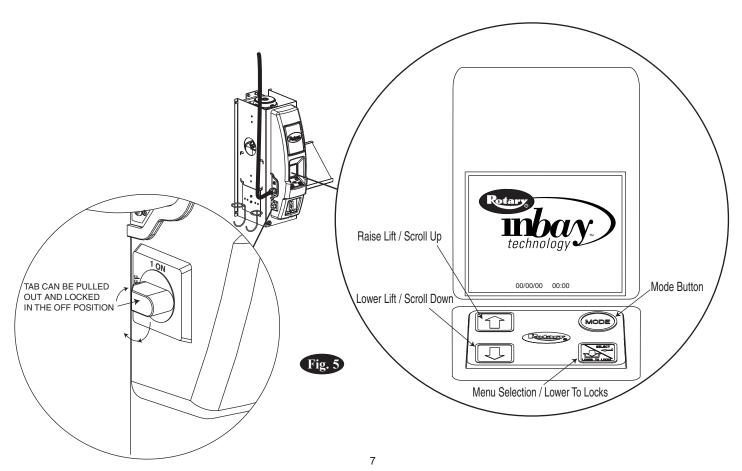
Typical Lifting Points



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.

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





6. To Raise Lift:

A. Push on the touch pad, Fig. 6. Raise lift until vehicle tires clear the floor.

Check Adapter Contact: Stop and check adapters for secure contact at vehicle manufacturer's recommended lift points, Fig. 3 and Fig. 4.

- B. Continue to raise vehicle to desired height, **only** if vehicle is secure on lift.
- C. Lower lift and repeat vehicle **spotting** and **loading** procedure if required.
- D. Locking latch should be heard when lift is being raised. If not heard, lower

lift and check locking latch.

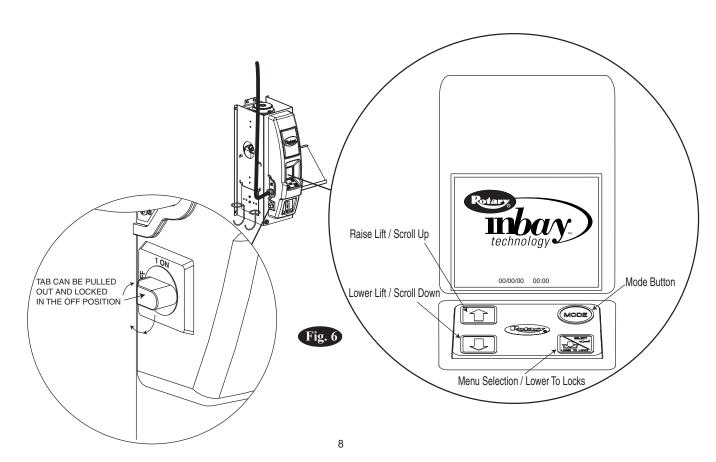
- E. Do Not go under vehicle unless all four adapters are in secure contact at vehicle manufacturer's recommended lift points and the locking latch is engaged.
- F. Push to lower lift onto locking latches.

7. While Using Lift:

- A. Avoid excessive rocking of vehicle while on lift.
- B. Always use safety stands when removing or installing heavy components.
- C. Connect electric air tools, drop lights, and other shop equipment to the GFCI 110V electric outlet located beside the control panel.
- D. Store all tools conveniently on hooks located on lift and connect to air hookup located just below the control panel.
- E. Connect phone, fax, or laptop computer to the phone jack located on the control panel. (NOTE: The phone jack must be connected to a phone line by your local service provider.)
- F. Use writing shelf/storage shelf for holding frequently used items. NOTE weight restriction on shelf.







8. To Lower Lift:

- A. Remove all tools or other objects from lift area.
- B. Raise lift off locking latches by pushing touchpad.
- C. Press on touchpad to lower lift.

An audible alarm is activated when pressing the lowering touchpad - a warning that the lift is lowering. The alarm ON/OFF option is accessible on the in*bay* Master Control Panel. See Timer/Alarm setting instructions, page 17.

Note: If is released, the latch should reset to engaged position.

- D. Remain clear of lift and vehicle when lowering. Observe pinch point WARNING decals.
- E. Return adapters to lowest position and move arms and adapters to provide an unobstructed exit before removing vehicle from lift area.

Note: If the lift is in a raised position and a pwer outage occurs, the lift may be lowered manually. Turn to Manual Lowering of Lift, page 14. If the service center lost electrical power, the lift will operate when power is restored.

9. If lift is damaged or not operating properly, **Do Not** use until adjustment or repairs are made by qualified lift service personnel.



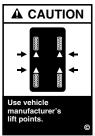
























MAINTENANCE INSTRUCTIONS

WARNING 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 locking latch free and oiled.

Always keep all bolts tight.

Always keep superstructure clean. In salt belt or other corrosive environments, the lift must be washed down weekly.

Always make sure the perimeter of the guide barrel and center cover are sealed with a good grade of silicone.

NOTE Be sure plugs on superstructure's are in place.

Daily inspect adapters for damage or excessive wear. Replace as required with genuine Rotary parts.

Daily check locking latch operation.

If locking latch is not heard when lift is raised:

A. Lower loaded lift onto lock | to check if lock is



functioning. If lock is functioning, stop. If not, continue on to "Step B".

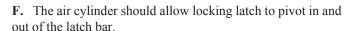
- **B.** Remove center cover and raise unloaded lift to full rise.
- C. Check locking latch for damage or air line problem.
- **D.** Repair and lubricate locking latch pivot points.
- E. Raise lift off lock





Lower lift | **4** | about half way.

Then raise lift and watch locking latch operation.



- to lower lift. **G.** Push
- **H.** Replace center cover and torque bolts to 60 ft-lbs.
- I. Seal around the perimeter of the guide barrel and center cover with a good grade of silicone.

Monthly lubricate lift guide barrels.

Guide Barrel Lubrication:

- **A.** Each guide barrel has a grease fitting on the top of the guide barrel.
- **B.** While raising and lowering unloaded lift, give each guide barrel 10-12 pumps with "hand" (manual) grease gun using only Mobil Mobilith® SHC® 1500 synthetic grease.
- C. For your nearest Mobil Mobilith® SHC® 1500 synthetic grease source, call 1-800-662-4525 or your local Rotary

Semi-annually check fluid level of lift power unit and re-fill if required per installation instructions using Dexron III ATF or ISOVG32 Hydraulic Fluid.

Replace all caution, warning or safety related decals on the lift if unable to read or missing. Reorder labels from Rotary Lift, see Safety Warning Labels for Inground Lifts.

Replace IMPORTANT decal on outside of yokes if unable to read or missing. Reorder labels from Rotary Lift, NP448.

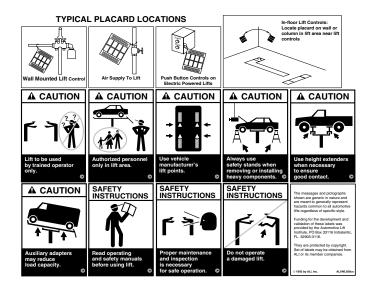
IMPORTANT

This lift requires periodic lubrication. Use only Mobil Mobilith® SHC® 1500 synthetic grease. See Owners Manual for lubrication procedures and proper vehicle spotting guide.

Safety Warning Labels for Inground Lifts

Lift Owner/User Responsibilities:

- **A.** This Safety Warning placard, see below, 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.



SAFETY WARNING LABELS FOR INGROUND LIFTS

Lift Owner/User Responsibilities:

- A. This Safety Warning placard SHALL be displayed in a consolicuous location in the lift area.

 C. These Safety Warning labels supplied with the lift.
- in a conspicuous location in the lift area.

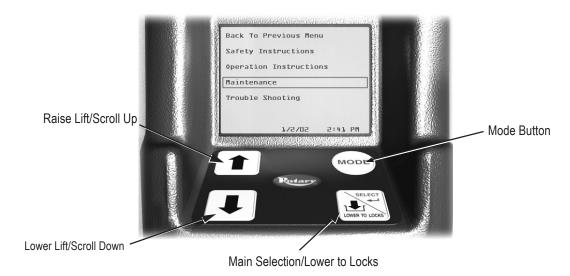
 Discone of the mounting arrangements illustrated on back of this placard.

 Discone of the mounting arrangements illustrated because the mount of the mounting arrangements illustrated these labels, operating instructions and other safety related information supplied with the lift.



TROUBLE SHOOTING

inbay Master Control Panel



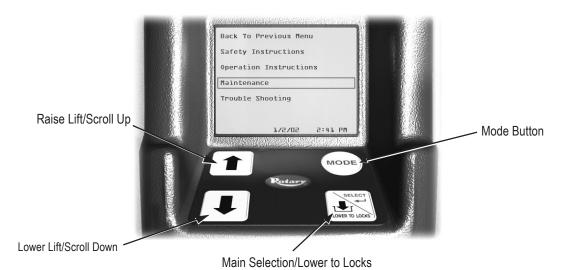
UP button pressed but lift doesn't raise

Trouble	Cause	Remedy
Error message on LCD	POWER UNIT CIRCUIT FAULT	Contact authorized Rotary repairperson.
No error message on LCD	1. Touch pad defect	1. Contact your Authorized Rotary repair person.
Motor does not run.	 Blown fuse or circuit breaker. Incorrect voltage to motor. Bad wiring connections. Motor up switch burned out. Motor windings burned out. 	 Replace blown fuse or reset circuit breaker. Supply correct voltage to motor. Repair and insulate all connections. Replace switch. Replace motor.
Motor runs but will not raise lift.	 Open lowering valve. Pump sucking air. Suction stub off pump. Low fluid level. 	 Repair or replace lowering valve. Tighten all suction line fittings. Replace switch stub. Fill tank with Dexron III ATF or ISOVG32 Hydraulic Fluid.
Motor runs-raises unloaded lift but will not raise vehicle.	 Motor running on low voltage. Debris in lowering valve Improper relief valve adjustment. Overloading lift. 	 Supply correct voltage to motor. Clean lowering valve. Replace relief valve cartridge. Check vehicle weight and/or balance vehicle weight on lift.
Lift settles down.	 Debris in check valve seat. Debris in lowering valve seat. External fluid leaks. 	 Clean check valve. Clean lowering valve. Repair external leaks.
Slow lifting speed or fluid blowing out fill-breather cap.	 Air mixed with fluid. Air mixed with fluid suction. Fluid return tube loose. Over-filled power unit fluid tank. 	 Change fluid to Dexron III ATF. Tighten all suction line fittings. Reinstall fluid return tube. Remove excess fluid to fill vent

level.

TROUBLE SHOOTING

inbay Master Control Panel

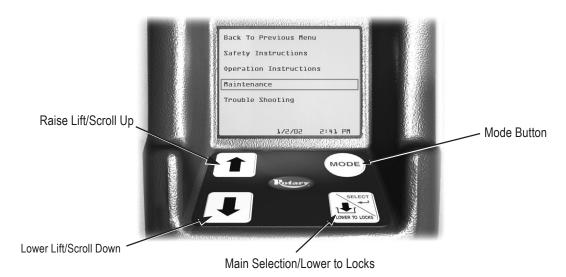


UP button pressed but lift doesn't raise

Trouble	Cause	Remedy
Lift "chattering" or jumping.	 Air is in the hydraulic system Bearings are dry Vehicle spotted incorrectly. 	 Bleed the hydraulic system. Grease the guide barrels. Respot vehicle per Fig. 1.
Locking latch will not release.	1. Dirty air line filter.	1. Clean air filter.
Error message on LCD	Liquid Detected In Containment	 Liquid detected in containment Remove all liquid from lift containment. Call a Rotary Authorized Installer for assistance if needed. Press mode button again to resume lift operation. Inbay liquid detection system screen will display until lift containment has been emptied of liquid.
Error message on LCD	Liquid Detected In Containment (No Liquid Found In Containment)	
	1. Possible Causes (Air System Fault)	 Call a Rotary Authorized Installer for assistance. Fault: Short in connection to sensor. Fix: Repair shorted connection. Fault: Defective sensor. Fix: Replace sensor. See air system diagram , Fig 7.

TROUBLE SHOOTING

inbay Master Control Panel

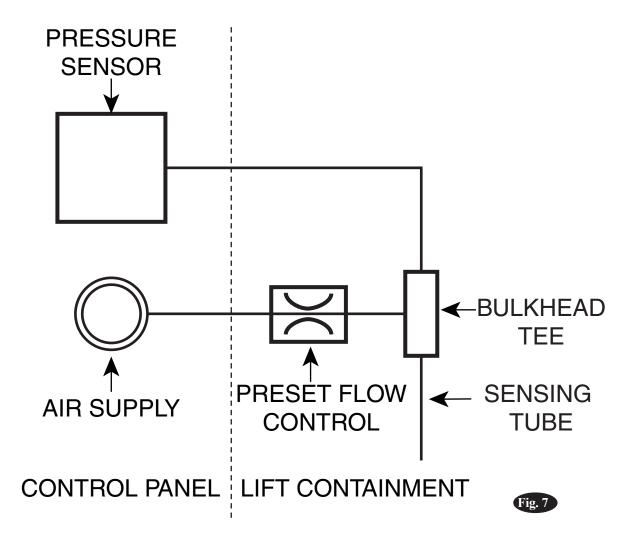


UP button pressed but lift doesn't raise

Trouble	Cause	Remedy
Error Message on LCD	Liquid Detected In Containment (No Liquid Found In Containment) 1. Possible Causes (Pressure Sensor Fault)	 Call a Rotary Authorized Installer for assistance. Fault: Plugged or kinked sensor tube. Fix: Check by removing air connection to pressure sensor. If LDS (Liquid Detection System) error deactivates, blow out tube or repair kink.

DOWN button pressed but lift doesn't lower

Trouble	Cause	Remedy
Error message on LCD	LOWERING VALVE CIRCUIT FAULT	1. Check lowering valve plug on power unit. If connection is good and you are still getting this error contact an authorized Rotary repairperson
No error message on LCD	1. Touch pad defect	1. Contact authorized Rotary repairperson
	2. Defective latch air valve in master control panel.	2. Contact authorized Rotary repairperson



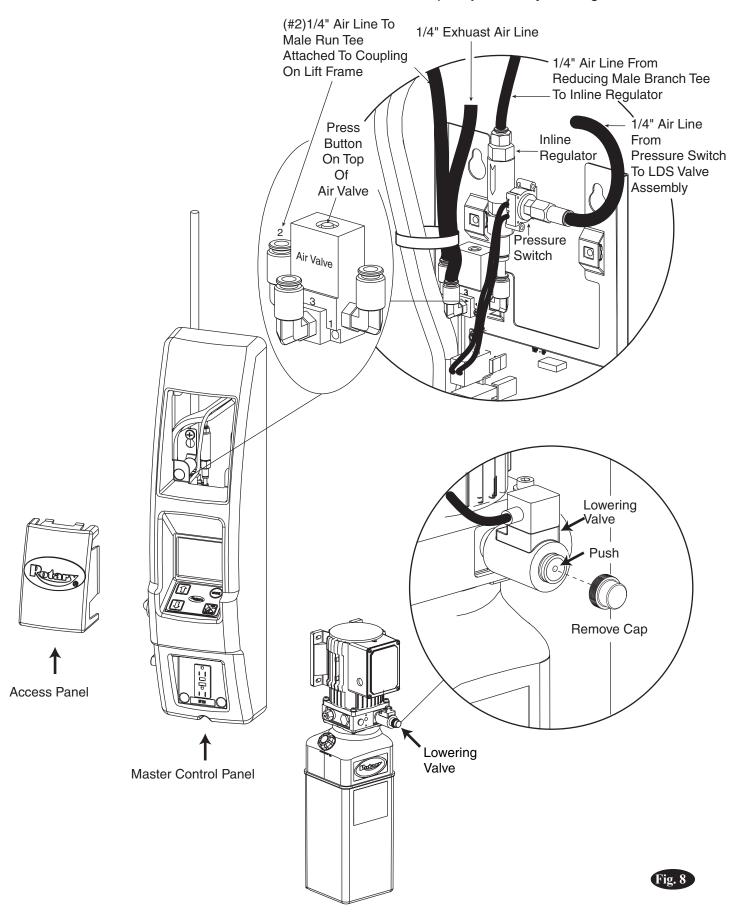
MANUAL LOWERING OF LIFT

If your lift is in a raised position and you lose power it is important to know how to lower the lift manually. Make sure nothing is under the lift and all unauthorized personnel are away from the lift area.

- 1. Place a hydraulic jack and pipe under one of the arm carriages. Jack should be rated to lift the capacity of the vehicle.
- **2.** Raise lift off of the locking latch. You should only have to raise lift approximately 1/6" to disengage the lock.
- **3.** Remove access panel from the master control panel. As you are facing the master control panel look slightly down and to the left and you will see the air latch valve, Fig. 8.

- **4.** Depress the button on the top of the air valve, Fig.
- 8. At this time you should hear the air leave the lift. Do not use a sharp object to depress the button.
- **5.** Slowly lower hydraulic jack and pipe out from under the arm carriage. The lift is now being held up by hydraulics at this point.
- **6.** Remove cap from lowering valve and press to lower lift, Fig. 8. The lift will lower at a slow speed. Replace cap on lowering valve after lift has been lowered.
- **7.** If your facility lost power your lift will operate when you regain power.
- **8.** If your facility power was not lost have a certified electrican check wiring to lift or call an authorized Rotary repair person.

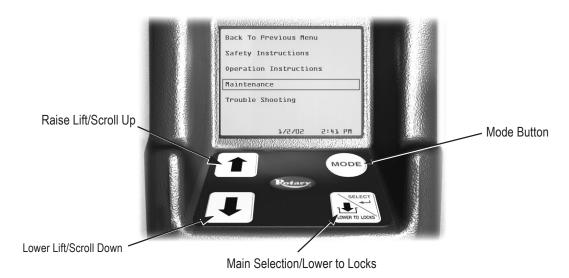
Press Button On Top Of a Air Valve to release locks. DO NOT Use A Sharp Object It May Damage The Valve.



DATE AND TIME SETTING

(USER PROFILE)

inbay Master Control Panel



To set clock DATE:

- 1. Ensure Power-Up Lift Switch is ON
- 2. Press Mode Button to go to inbay Technology menu.
- 3. Press on touchpad for USER PROFILE
- 4. Press on touchpad for PROFILE MENU
- 5. Press on touchpad to SET DATE/TIME
- 6. Press on touchpad to SET CLOCK DATE
- 7. Press on touchpad to set MONTH DATE
- 8. Press on touchpad to set correct MONTH
- 9. Press on touchpad to advance to DAY DATE
- 10. Press on touchpad to set correct DAY
- 11. Press on touchpad to advance to YEAR DATE
- 12. Press on touchpad to set correct YEAR

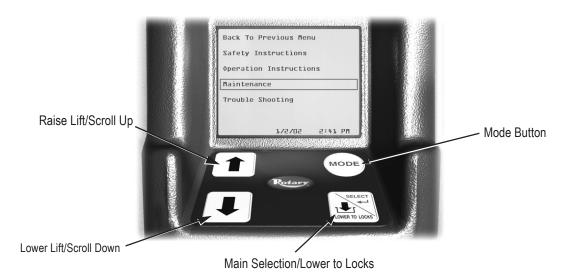
To set clock TIME:

- 1. Press on touchpad for TIME
- 2. Press on touchpad to correct the HOUR
- 3. Press on touchpad to advance to MINUTES
- 4. Press on touchpad to correct MINUTES

TIMER AND ALARM SETTING

(USER PROFILE)

inbay Master Control Panel



For TIMER Settings:

- 1. Turn Power Up Lift Switch ON
- 2. Press Mode Button to inbay Technology menu, Fig.19
- 3. Press on touchpad for TIMER/ALARM
- 4. Press on touchpad for TIMER
- 5. Select instructions for Setting Timer to START, STOP, RESET, or OFF

For ALARM Settings:

- 1. Return to TIMER/ALARM menu
- 2. Press on touchpad for ALARM
- 3. Press on touchpad for ALARM ONE TIME, ALARM DAILY, ALARM OFF

To Set ALARM ONE TIME:

1. Press on touchpad to change date (month, day and year) and time (hours and minutes)

To Set ALARM Daily:

1. Press on touchpad to change date (month, day and year) and time (hours and minutes)

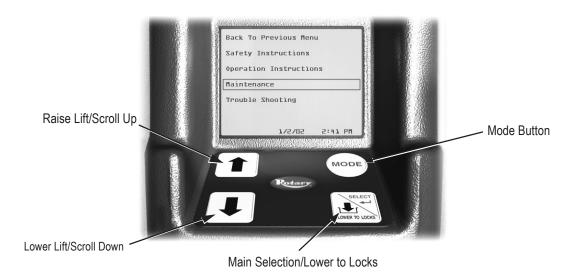
To Set ALARM OFF:

1. Press on touchpad to ALARM OFF

ROTARY INFORMATION

If lift is not operating properly, DO NOT use until adjustments or repairs are made by qualified lift service personnel. To avoid personal injury, permit only qualified personnel to perform maintenance on these lifts.

inbay Master Control Panel



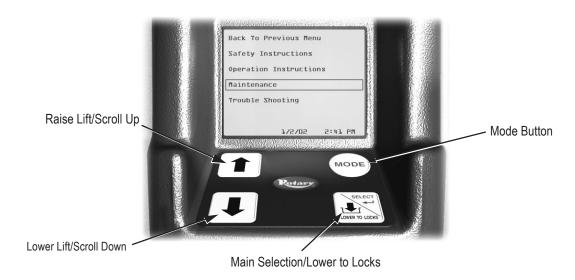
To Contact Rotary Lift:

- 1. Turn Power Up Lift Switch ON
- 2. Press Mode Button to inbay Technology menu
- 3. Press on touchpad to ROTARY INFORMATION
- 4. Press on touchpad to principal Rotary Lift contacts, i.e. U.S., Canada, International
- 5. Press on touchpad to appropriate contact, i.e. U.S.
- 6. Press on touchpad for address and telephone numbers

CHANGING LANGUAGE

If lift is not operating properly, DO NOT use until adjustments or repairs are made by qualified lift service personnel. To avoid personal injury, permit only qualified personnel to perform maintenance on these lifts.

inbay Master Control Panel



To Change Language Type:

- 1. Ensure Power Up Lift Switch ON
- 2. Press Mode Button to inbay Technology menu
- 3. Press on touchpad and go to last (bottom) option
- 4. Press on touchpad
- 5. Press on touchpad and go to second to last (second from bottom) option.
- 6. Press on touchpad on touchpad
- 7. Press and on touchpad to select proper language

Certificate of Compliance

Rotary Lift is authorized to apply ETL & cETL Listing Marks/Labels to this AC Motor. Authorization: ETL Report No. J98007541-003, FAM -UL73. This ETL test certifies that this AC Motor complies with Underwriters Laboratories, Inc. standard ANSI/UL 73, 8th Edition & CSA standard C22.2 No. 68-92.

SV0021 A Rev. 6/9/99



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.

World Headquarters:
Rotary Lift
A DOVER COMPANY

2700 Lanier Drive Madison, Indiana USA Phone: 1.800.445.5438

Phone: 1.812.273.1622 Fax: 1.800.578.5438 Fax: 1.812.273.6502 userlink@rotarylift.com www.rotarylift.com (Regional Sales Office)
Rotary Lift Europe S.r.l.
Cadriano (BO)
Phone: +39.051.763384
Fax: +39.051.763395
info@rotaryeurope.com

Germany: (European Sales Headquarters) Rotary Lift Germany GmbH Bensheim Phone: +49.6251.582.6420 Fax: +49.6251.582.6422 sales@rotarylift.de

United Kingdom: (Regional Sales Office) Rotary Lift (UK) LTD. Halstead, Essex Phone: +44.178.747.7711 Fax: +44.178.747.7720 sales@rotarylift.idps.co.uk Canada: (Regional Sales Office) Rotary Lift Canada Mississauga, Ontario Phone: 905.812.9920 Fax: 905.812.9719 canada@rotarylift.com Austral-Asia: (Regional Sales Office)
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