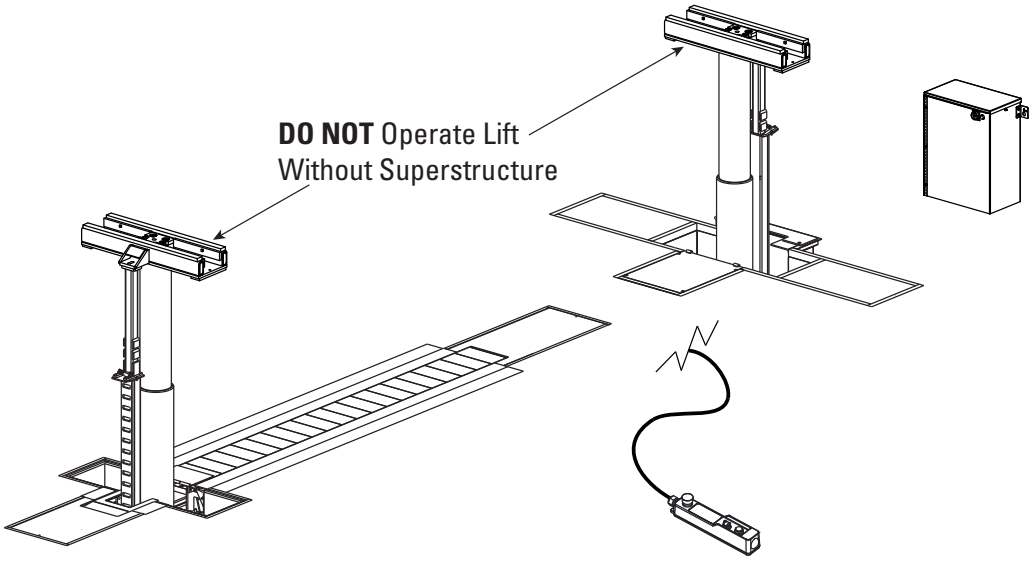
# Models:
# MOD232 2-Post / MOD332 3-Post
# (000 Series)
## INGROUND LIFTS
**Capacity 64,000lbs. 2-Post/Capacity 96,000lbs. 3-Post**
**32,000 lbs. Each Post**

# Models:
# MOD235 2-Post / MOD335 3-Post
# (3000 Series)
## INGROUND LIFTS
**Capacity 70,000lbs. 2-Post/Capacity 105,000lbs. 3-Post**
**35,000 lbs. Each Post**

**IMPORTANT** We assume no responsibility for installation errors where instructions other than those shipped with equipment are used. Read all literature and engineering drawings provided with this lift before installation.




## Table of Contents

**Owner/Employer Responsibilities** ..... **2**
**Safety Instructions** ..... **3**
**Safety Warning Labels** ..... **4**
**Control Panel Overview** ..... **5**
**Operating Instructions** ..... **6**
**Using Vehicle Profiles** ..... **7**
**Service Menu** ..... **8**
**Maintenance Instructions** ..... **9**
**Trouble Shooting** ..... **10**
**Emergency Lowering Procedure** ..... **15**
**Lift Lockout/Tagout Procedure** ..... **16**
**Operating Conditions** ..... **16**
**Approved Accessories** ..... **16**

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

OPERATION & MAINTENANCE MANUAL

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## 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/SM01-1, *ALI Lifting it Right* safety manual; ALI/ST-90 *ALI Safety Tips* card; ANSI/ALI ALOIM-2008, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*; ALI/WL Series, *ALI Uniform Warning Label Decals/Placards*; and in the case of frame engaging lifts, ALI/LP-GUIDE, *Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts*.

- Shall establish procedures to periodically inspect the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2008, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*; and The Employer Shall ensure that lift inspectors are qualified and that they are adequately trained in the inspection of the lift.

- Shall establish procedures to periodically maintain the lift in accordance with the lift manufacturer's instructions or ANSI/ALI ALOIM-2008, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*; and The Employer Shall ensure that lift maintenance personnel are qualified and that they are adequately trained in the maintenance of the lift.

- Shall maintain the periodic inspection and maintenance records recommended by the manufacturer or ANSI/ALI ALOIM-2008, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*.

- Shall display the lift manufacturer's operating instructions; ALI/SM 93-1, *ALI Lifting it Right* safety manual; ALI/ST-90 *ALI Safety Tips* card; ANSI/ ALI ALOIM-2008, *American National Standard for Automotive Lifts-Safety Requirements for Operation, Inspection and Maintenance*; and in the case of frame engaging lifts, ALI/LP-GUIDE, *Vehicle Lifting Points/Quick Reference Guide for Frame Engaging Lifts*; in a conspicuous location in the lift area convenient to the operator.

- Shall provide necessary lockout/tagout means for energy sources per ANSI Z244.1-1982 (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

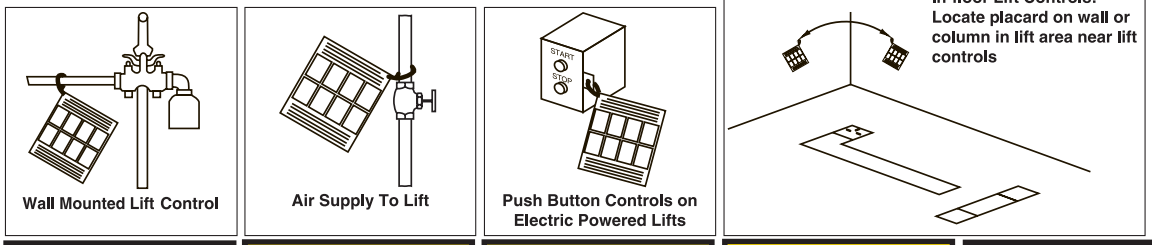
- **Daily** inspect your lift. Never operate if it malfunctions or if it has broken or damaged parts. Use only qualified lift service personnel and genuine Rotary parts to make repairs.
- **Thoroughly** train all employees in use and care of lift, using manufacturer's instructions and "Lifting It Right" 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 the lift bay.
- **Do Not** hit or run over lift superstructure, saddle or adapters. This could damage lift or vehicle. Before driving vehicle into bay, position adapters inboard 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.
- The center cover is designed for foot traffic only.
- If you are working under vehicle, lift should be raised high enough for locking latch to engage.
- **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 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 adapters inboard 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.
- **Do Not** go under vehicle if locking latches are not engaged.
- **Never** use remote or pendant below floor grade.
- **Always** remain in line of sight when operating lift.

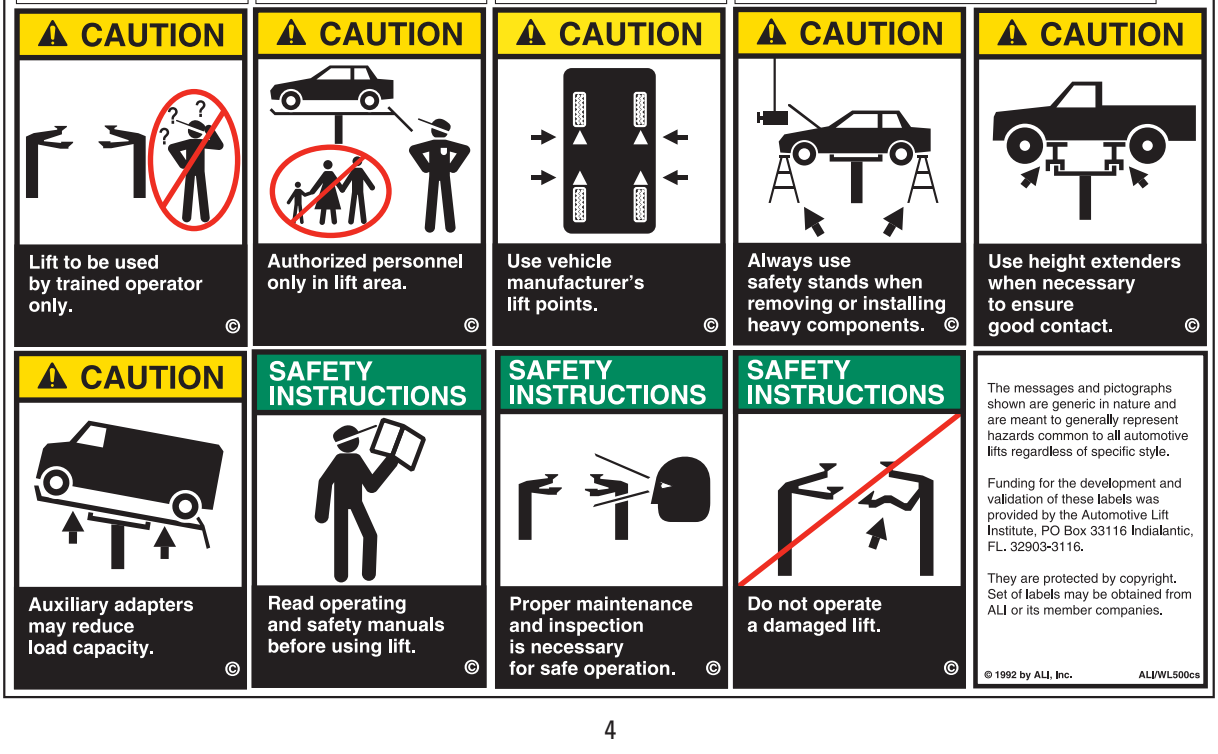
# SAFETY WARNING LABELS FOR INGROUND LIFTS

## 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.

## TYPICAL PLACARD LOCATIONS



# CONTROL PANEL OVERVIEW

Review Fig. 1 to get a quick overview of the control panel and it's functionality.

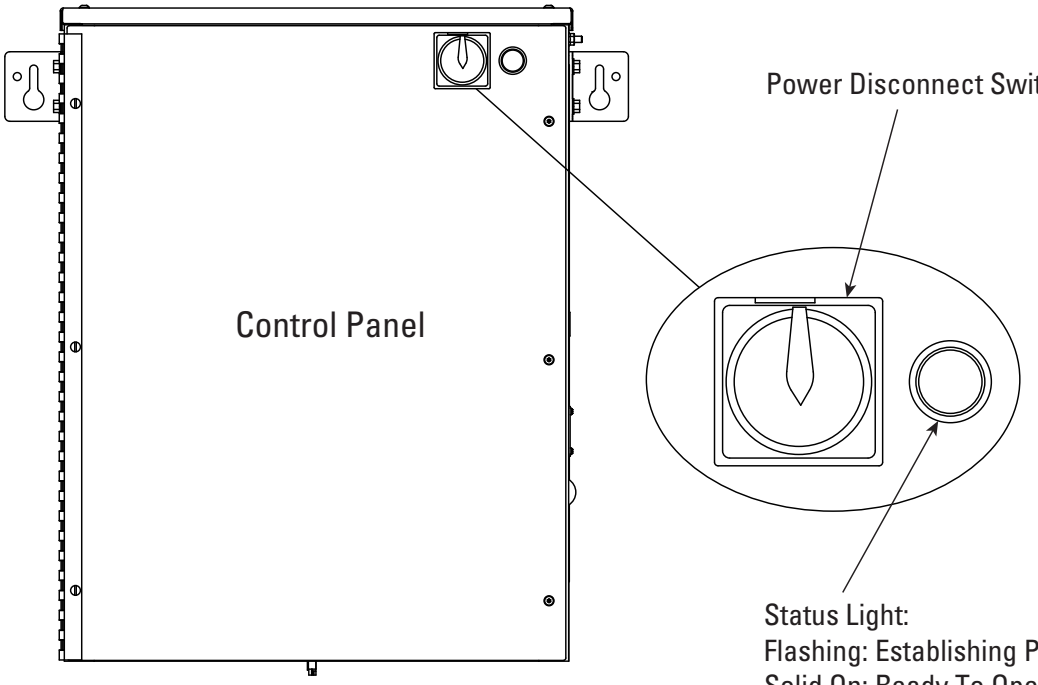
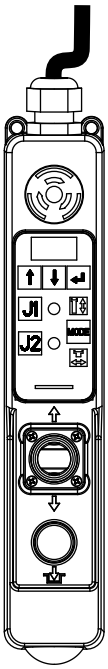
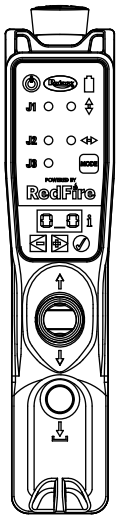



Fig. 1




**Wired Pendant**




**Wireless Pendant**

**DO NOT USE PENDANT BELOW FLOOR LEVEL**

**Vehicle Service Group**
Pendant for hazardous locations
FA9123 Class 1, Div. 2, Group D
24VDC, 0.1A
For Indoor Use (5°-40° C)
**⚠CAUTION**
De-energize and remove from hazardous location prior to opening.

**Véhicule de groupe de service**
En disponibilité pour emplacements dangereux
FA9123 Classe 1, Division 2, Groupe D
24VDC, 0.1A
Pour l'Usage Intérieur
**⚠ ATTENTION!**
Mettre hors tension et sortir de l'emplacement dangereux avant l'ouverture.

NP1117 Rev. -

## 2-Post/3-Post Operations Decal

**SAFETY INSTRUCTIONS:** Read and heed all WARNING, CAUTION and SAFETY INSTRUCTION labels on lift.
**OPERATING INSTRUCTIONS:** Only Authorized Personnel Are to Operate Lift. Before operating lift, read Operation and Maintenance Manual and Safety documents supplied with lift.

Before loading: Inspect lift to assure it is in good operating condition. See Operation and Maintenance Manual for details.

1. Lift must be fully lowered and service bay clear of all personnel and/or other obstructions before vehicle is brought on lift.

2. It will be necessary to open the front and rear housing doors before positioning vehicle over the lift. Position lift saddles and adapters to provide unobstructed entrance of vehicle onto lift.

3. Spotting: Position vehicle centered laterally over the lift jacks with rear wheels centered in wheel dishes.
- Adjust adapters as needed to engage recommended lift point. Auxiliary adapters may be required.

**⚠WARNING** Before attempting to lift vehicle, be sure that:
- Vehicle individual axle weight does not exceed capacity shown on saddle.
- Adapters are in secure contact with vehicle manufacturer's recommended lift points.
- Adequate overhead clearance is provided to raise vehicle to desired height.

2. TO SPOT LIFT:
Manual Mode:
Use the Post Selection Keys and Mode Key to select individual post motion. Move each lift post to engage the vehicle manufacturer's recommended lift points. Press the joystick up for raise/forward, or down for lower/reverse.

Automatic Mode:
Select a pre-set vehicle profile from the menu screen using the Up/Down Arrow Keys. Select all posts using the Post Selection Keys. Press the joystick up to begin lift posts. All posts will automatically move to pre-set wheelbase positions. Adjust adapters to engage the vehicle manufacturer's recommended lift points.

3. TO RAISE LIFT:
Select all posts using the Post Selection Keys. Press the joystick up to raise posts to desired lifting height. Always watch vehicle.

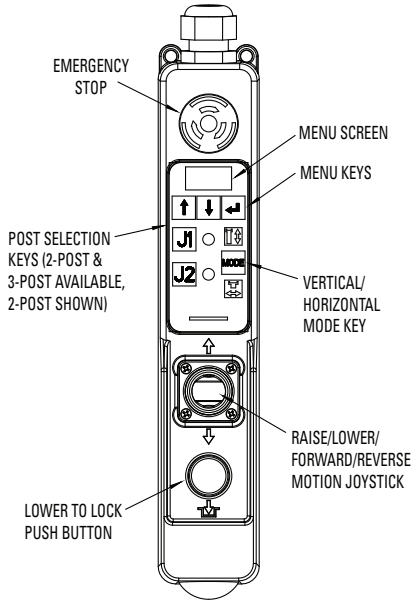
**⚠IMPORTANT** Do not go under vehicle unless all adapters are in secure contact at vehicle manufacturer's recommended lift points and properly spotted. While using lift, avoid excessive rocking of vehicle while on lift.

4. TO LOCK LIFT:
Press the Lower to Lock Pushbutton. This will allow the lift to settle onto the mechanical locking legs.

**⚠IMPORTANT** Close housing doors once lift is raised.

5. TO LOWER LIFT:
Remove all obstacles from under vehicle and lift. Ensure personnel are not in the lift area. If lift is on the locks it must first be raised off the locks before it can be lowered. Select all posts using the Post Selection Keys. Press the joystick up to get the lift off the locks. Press the joystick down to lower posts to desired height. Posts will stop automatically at floor height. Always watch vehicle. Return saddles and adapters to recess housing. Always provide an unobstructed exit before removing vehicle from lift area. Close housing doors once vehicle is removed.

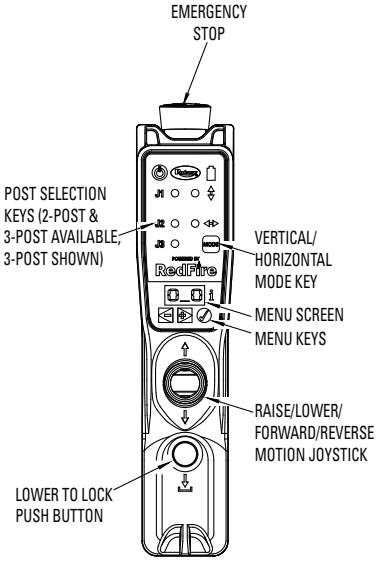
Motor duty cycle is one full lifting operation within a 10 minute period. Example: 2 minute rise time, 8 minutes rest. If lift is not operating properly, DO NOT use until adjustments or repairs are made by qualified lift service personnel. For more information call your local authorized Rotary Lift installer representative. Need further assistance? Call Rotary Lift direct at (800) 445-LIFT.




**Wired Pendant**

| Code | Description |
|---|---|
| E0 | CPU/Task Error |
| E1 | Joystick Error |
| E3 | Pendant Comm Error |
| E4 | Out of level |
| E5 | Emergency Stop |
| E9 | Stuck Key |
| L | Liquid In Containment |

| Console Status Light | |
|---|---|
| | Flashing - Establishing Pendant Communications |
| | Solid On - Ready |




**Wireless Pendant**

Rotary Lift Madison, IN 47250 (800)445-5438 © August 2018 by Vehicle Service Group

NP1113
Rev. D 8.6.18

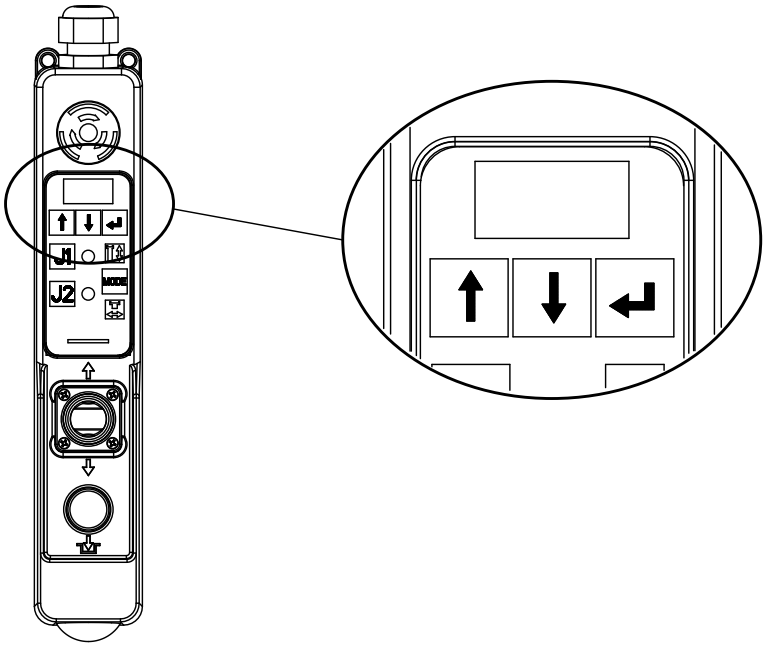
# USING VEHICLE PROFILES

Vehicle Profiles store wheelbase and height limit information for individual vehicles.

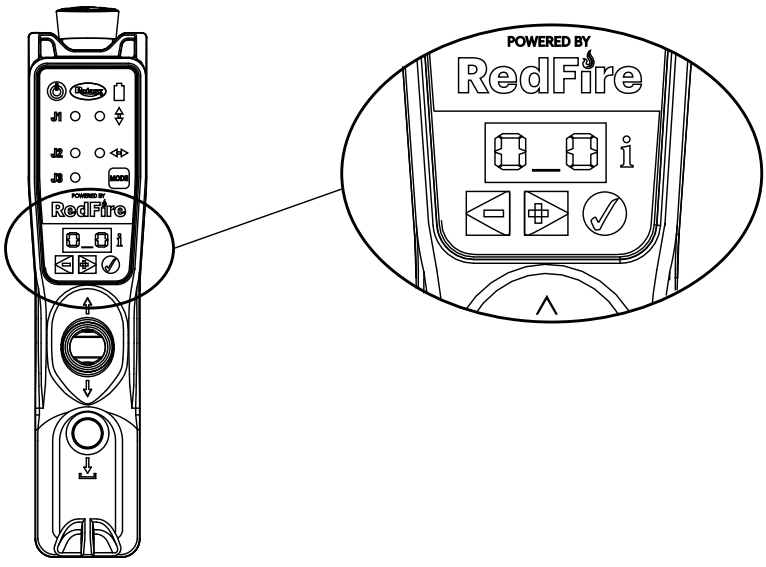
Refer to installation instructions for information on creating vehicle profiles.

To use vehicle profiles, Service menus must not be enabled.

**To select a vehicle profile:**




With service menus disabled use the up/down arrow keys to select a vehicle profile. See installation instructions for information on creating vehicle profiles.




With service menus disabled use the up/down arrow keys to select a vehicle profile. See installation instructions for information on creating vehicle profiles.

## Service Menu Summary

| MENU | SUB-MENU | DESCRIPTION |
|---|---|---|
| PS | [0,1]* | Pocket Stop |
| HS | [0,1]* | Home Stop |
| FS | [0,1]* | Floor Level Stop |
| AS | [0,1]* | Adjustable End Stop |
| LI | [0,1]* | Light Indicator Limit |
| HL | [0,1]* | Height Limit |
| CA | [1-8] | Capture Vehicle Profile |
| CH | [1-3] | Stationary Post Location |
| Ar | [0,1]* | Auto-Raise Function |
| r[0-99] | | Firmware Revision |

* - 0 to clear, 1 to set

Service menus must be enabled via Rotary Tool to access service menus.

For detailed instructions, refer to installation instructions.

**Channel Selection: (Wireless Option Only)**

Before programming lift, use Rotary Tool to specify channel number for console.

For detailed instructions, refer to installation instructions.

# 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** replace all Caution, Warning, or Safety Related decals on the lift when unable to read or missing.
- **Always** keep lift components clean.
- **Always** if oil leakage is observed, call a Rotary Authorized Installer.
- **Always** if electrical problems develop, call a Rotary Authorized Installer.

**Every 7 Days** Check FRL Bowl for accumulation of water.

- Drain as needed. DO NOT rely on automatic drains as they can malfunction.

**Every 14 Days** Check Post Position Sensor Cables

- Check cable for fraying or abrasion.
- Check cable connection that it is secure.
- Check cable tension that cable is not slack and readily retracts back into housing.
- Check that position sensor mounting hardware is secure.

**Every 30 Days** Inspect Adapters For Damage

- Deformed or broken parts should be replaced with Genuine Rotary Replacement Parts. Contact your local Rotary Authorized Installer.

**Every 30 Days** Check Fluid Seals At Each Post For Leakage

- If seals are worn or damaged, replace with Genuine Rotary Replacement parts.

**Every 30 Days** Check Bolts For Tightness

**IMPORTANT**

- Check structural hardware for secureness. **Saddle and locking leg bolts should be torqued to 150 ft-lbs.**

**Every 30 Days** Lubricate The Pivot Pins On The Latch Release Air Cylinders And Locking Latches.

- Check that all locking latch components are functioning properly. Lubricate pivot pins on upper locking latch.

**Every 180 Days** Inspect Hydraulic System

- Check all hoses, pipes, and fittings for leaks, damage, or deterioration. Replace as required.

**Every 180 Days** Check Post Drive Sensor Cables

- Check cable for fraying or abrasion.
- Check cable connection that it is secure.
- Check cable tension that cable is not slack and readily retracts back into housing.
- Check that position sensor mounting hardware is secure.

**Every 180 Days** Lubricate And Inspect Carriage Rollers, Housing Door Hinges, Trench Chains And Sprockets.

- Lubricate with a good grade of chain oil. Check chain tension to ensure it is not slack.

**Every 180 Days** Clear Post Carriage Roller Channel Of Debris

- IMPORTANT - Keep roller channel clear of debris.

**Every 180 Days** Check Power Unit Fluid Level

- Check the level of the hydraulic oil using the dipstick. The lift should be in the fully lowered position to check the oil level. If oil level is low, add oil to the reservoir before using lift again. Approved hydraulic oil includes either ISO32 or AW32.

**Every 5 Years** Replace Hydraulic Oil

- Replace with recommended oil grade ISO32 or AW32. The lift should be in the fully lowered position for servicing and checking the oil level.

Pendant Error Code Troubleshooting

| Code | Description | Troubleshooting Steps |
|---|---|---|
| E0 | CPU/Task Error | Control board fault - Consult factory |
| E1 | Joystick Error | Error reading joystick position. Check wiring, replace if needed |
| E3 | Pendant Comm Error | Check wiring between main board and pendant pins 2 and 3 |
| E4 | Out of Level | See out of level condition in the main troubleshooting section |
| E5 | Emergency Stop | To restore function, reset Emergency Stop button |
| E8 | Connection Error | Multiple units trying to connect to the same channel |
| E9 | Stuck Key | A key or motion press was detected at start-up, or, a key or motion press has been engaged longer than 3 minutes |
| L | Liquid in Containment | Check containment for liquid and evacuate using clean out tube |

# TROUBLE SHOOTING

| Troubleshooting Description | Possible Cause | Remedy |
|---|---|---|
| | | |
| Oil Blowing Out Fill-Breather Cap | Air Mixed With Oil | Change oil using ISOVG32 Hydraulic Oil. |
| | | |
| | Air Mixed With Oil Suction | Tighten all suction line fittings. |
| | | |
| Lift Drifts Down | Hydraulic Check Valve Is Malfunctioning | Check air supply to pilot port on valve or replace check valve. |
| | | |
| | Air Solenoid Valve Malfunction | Replace air solenoid valve. |
| | | |
| | External Oil Leak | Check for leaks between check valve and cylinder. Repair external leaks. |
| | | |
| | Bad Post Seal | Check for leaks. Contact an authorized service representative. |
| | | |
| Locking Latch Will Not Release | Load On Locking Leg | Raise lift until locking latch engages the next locking position. Lower lift. |
| | | |
| | Locking Latch Seized | Check for damage to components- Replace damaged components immediately. Clean and lubricate locking latch components so they operate freely. Check spring tension. Check for burrs on inner tube lock stops. |
| | | |
| | Air Leak | Check tubing from air valve to locking latch cylinders. |
| | | |
| | Dirty Air Line Filter | Clean air filter. |
| | | |
| | No Air Supply | Check tubing and compressor. |
| | | |
| | Air Valve Stuck Close | Cycle/toggle, replace valve if necessary. |
| | | |
| | Air Cylinder Malfunction | Check cylinder for proper operation. Replace air cylinder. |
| | | |
| Locking Latches Do Not Engage | Locking Latch Seized | Check for damage to components. Replace damaged components immediately. Clean and lubricate locking latch components so they operate freely. |
| | | |
| | Air Valve Stuck Open | Replace air solenoid valve. |
| | | |
| Lift Will Not Raise Off Of Latches | Motor, Pump, Or Cylinder Failure. | Contact lift manufacturer's Customer Service. |
| | | |
| Control Panel Does Not Power Up | No 24V Power Supply To Main Control Board | Check for 24V power coming from transformer. |
| | | |
| Pendant Does Not Power Up, Or, Flashing Light On Console Stays Lit | No Power Or Communication With Pendant | Check pendant cable wiring, check for 24V power to pendant pins 1 and 4.<br>**Wireless Option Only:**<br>Verify battery connection on remote<br>Check radio wiring in console |

# TROUBLE SHOOTING

| Troubleshooting Description | Possible Cause | Remedy |
|---|---|---|
| | | |
| Liquid Detection Sensor System Fault | Liquid In Containment | Remove all liquid from lift containment- Call a Rotary Authorized Installer for assistance if needed. Inbay Liquid Detection System screen will display until lift housing has been emptied of liquid. |
| | | |
| | No Liquid In Containment | Pressure Sensor Fault: Short in connection to pressure sensor- Repair shorted connection. Defective sensor- Replace sensor. Press Select to see an air system diagram. |
| | | Air System Fault: Plugged or kinked sensor tube- Check by removing air connection to pressure sensor. If Liquid Detection System error deactivates, blow out tube or repair kink. If Liquid Detection System stays activated, replace pressure sensor. Press Select to see an air system diagram. |
| | | |
| Low Air Pressure | Air supply not functioning or not adequate | Check air compressor for required air pressure. Minimum 100 PSI is required to operate the lift system. Check that all supply valves to control cabinet are on. |
| | | |
| | The set point on the air pressure switch is adjusted incorrectly | Adjust set point to increase air pressure. |
| | | |
| | Broken air lines, leaking fittings, loose or damaged wiring to air pressure switch inside control cabinet | Repair air lines and fittings. Tighten all wiring connections. Repair or replace damaged wiring. |
| | | |
| Out Of Level Condition | Vehicle weight and distribution not within rated lift capacity | Verify axle weights are within rated post capacity. |
| | | |
| | Check for obstructions preventing lift from raising or lowering | The lift must be raised/lowered manually to bring the posts back to within operating limits. |
| | | |
| | Hydraulic check valve is malfunctioning | No or low air supply to pilot on hydraulic check valve or replace check valve. |
| | | |
| | Main control board not operating properly | Contact an authorized service representative. |
| | | |
| | Post position sensor not operating properly | Contact an authorized service representative. |
| | | |
| | Damaged hydraulic hoses or loose fittings | Replace damaged hoses or fittings. |
| | | |
| | Low oil level | Add hydraulic oil to the reservoir. Approved hydraulic oil includes either ISO32 or AW32. |

# TROUBLE SHOOTING

| Troubleshooting Description | Possible Cause | Remedy |
|---|---|---|
| | | |
| Lift Fails To Raise Or Lower | When joystick is pushed forward | Follow troubleshooting instructions for fault displays. |
| | | Motor/pump runs but will not lift load- vehicle weight and/or distribution not within lift rated capacity. |
| | | Motor rotation incorrect- motor rotation is clockwise from top. |
| | | Upper height limit not set properly- reset upper height limit. |
| | | Joystick malfunctions- check wiring connections. Replace joystick if damaged. |
| | | |
| | When joystick is pulled backward | Follow troubleshooting instructions for fault displays. |
| | | Joystick malfunctions- check wiring connections. Replace joystick if damaged. |
| | | Locks not fully disengaging- check air valve and lock operation. |
| | | Hydraulic check valve is malfunctioning- check air supply to pilot on hydraulic check valve or replace hydraulic check valve. |
| | | Velocity fuses malfunctioning- pressurize lift hydraulically then manually operate the motor controller to release hydraulic pressure. |
| | | |
| Lift Shakes Or Shudders | Low oil level | Check the level of the hydraulic oil using the dipstick. The lift should be in the fully lowered position to check the oil level. Add oil to the reservoir if required, before using the lift again. Approved hydraulic oil includes either ISO32 or AW32. See installation instructions for proper bleeding procedures. |
| | | |
| | Control system wiring not clean and tight | Clean and reconnect wiring making sure all connections are tight. |
| | | |
| | Air in the hydraulic system | See installation instructions for proper bleeding procedures. |
| | | |
| All Posts Don't Operate | Connections to main control board or to electrical components incorrect or loose | Refer to electrical schematic in installation instructions. Check and tighten all connections as required. Check all wiring harnesses for abrasion and cuts. |
| | | |
| | Main control board not operating properly | Contact an authorized service representative. |
| | | |
| | Motor controller malfunctioning | Contact an authorized service representative. |
| | | |
| | Internal oil leak | Have hydraulic system serviced by an authorized service representative. |

# TROUBLE SHOOTING

| Troubleshooting Description | Possible Cause | Remedy |
|---|---|---|
| | | |
| All Posts Don't Operate continued | Velocity fuses malfunctioning | Pressurize lift hydraulically then manually operate the motor controller to release hydraulic pressure. |
| | | |
| | External oil leak | Have hydraulic system serviced by an authorized service representative. |
| | | |
| | Low oil level | Check the level of the hydraulic oil using the dipstick. The lift should be in the fully lowered position to check the oil level. Add oil to the reservoir if required, before using the lift again. Approved hydraulic oil includes either ISO32 or AW32. See installation instructions for proper bleeding procedures. |
| | | |
| Motor/pump Runs But Will Not Lift Load | Vehicle weight and/or distribution not within lift rated capacity | Verify axle weights are within rated post capacity. |
| | | |
| | External oil leak | Have hydraulic system serviced by an authorized service representative. |
| | | |
| | Internal oil leak | Have hydraulic system serviced by an authorized service representative. |
| | | |
| | Pump malfunctioning | Have hydraulic system serviced by an authorized service representative. |
| | | |
| Post Will Not Adjust Fore/Aft | Chain broken | Replace chain. See installation manual for adjustment procedures. |
| | | |
| | End stop/home pocket setting incorrect | Refer to installation instructions for setting stops. |
| | | |
| | Drive motor malfunction | Contact an authorized service representative. |
| | | |
| | Position sensor malfunction | Refer to electrical schematic in installation instructions. Check and tighten all connections as required. Check all wiring harnesses for abrasion and cuts. |

# TROUBLE SHOOTING

| Troubleshooting Description | Possible Cause | Remedy |
|---|---|---|
| | | |
| Post Position Sensor Fault | Post travel is obstructed | Remove obstruction. |
| | | |
| | Loose connections at terminal blocks and position sensors | Clean and tighten wiring connections. |
| | | |
| | Damaged or broken position sensor cables | Replace position sensor. |
| | | |
| | Damaged or broken position sensor | Replace position sensor. |
| | | |
| | Broken mechanical connections to position sensors | Repair connections or replace position sensor. |
| | | |
| | Incorrect voltage supply to position sensor | 24V supply is required to operate the position sensor. |
| | | |
| Constant Flashing Status Light On Control Panel | Emergency stop is pressed | Check emergency stop on pendant control. |
| | | |
| | Pendant communication error | Check wiring between pendant control and control console. |
| | Remote Communication Error **Wireless Option Only** | Check wiring in radio |
| | | Verify remote is powered on |
| | | Verify remote is on current channel |

# EMERGENCY LOWERING PROCEDURE

1. Replace facility air with a compressor set at 110psi.
2. Replace facility power with a generator rated for 3-phase, 10kw at the appropriate voltage for the control cabinet.
3. Raise each post off of locks individually.  Only run one motor at a time during raise.  Lower in synchronized (all) mode.

# 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, contractors, etc.). All employees shall be instructed in the safety significance of the lockout procedure by the facility owner/manager. Each new or transferred employee along with visiting outside service personnel shall be instructed by the owner/manager (or assigned designee) in the purpose and use of the lockout procedure.

**Preparation**

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

**Sequence of Lockout Procedure**

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

**Restoring Equipment to Service**

1) Assure the work on the lift is complete and the area is clear of tools, vehicles, and personnel.
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 41º-104ºF (5º-40ºC).**

# APPROVED ACCESSORIES

| Item | Capacity | Part Number |
|---|---|---|
| Transit Bus Adapter Package | 35,000 lbs. | AK-TRA70-2 |
| HD Truck Adapter Package | 35,000 lbs. | AK-HTA70-2 |
| School Bus Adapter Package | 35,000 lbs. | AK-SBA70-2 |

(Copies can be made of this page for future maintenance tracking)

**ROTARY LIFT MOD35 PREVENTIVE MAINTENANCE SCHEDULE**
**INTERVAL IN MONTHS (REPEAT AFTER 2 YEARS)**

**To insure your safety, and to keep your lift operating properly, you MUST follow this maintenance schedule.**

**PROGRAMME D'ENTRETIEN PRÉVENTIF MOD35 DE ROTARY LIFT**
**INTERVALLE EN MOIS (À RÉPÉTER APRÈS 2 ANS)**
**Pour garantir votre sécurité, et afin de vous assurer que votre pont élévateur fonctionne correctement, vous DEVEZ respecter ce programme d'entretien.**

**⚠WARNING** **If you are not completely familiar with automotive lift maintenance procedures, STOP: contact factory for instructions. Permit only qualified personnel to perform maintenance on this equipment.**

**⚠AVERTISSEMENT** **Si vous n'êtes complètement pas familiarisé avec les procédures d'entretien du pont élévateur, ARRÊTEZ-VOUS. Communiquez avec l'usine de fabrication pour obtenir des instructions. Confiez uniquement l'entretien de cet équipement à des personnes qualifiées.**

| PERIODIC INSPECTION: INSPECTION PÉRIODIQUE : | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MECHANICAL LOCKS VERROUS MÉCANIQUES | | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I | A/I |
| SENSOR CABLES CÂBLES CAPTEURS | | | | | | I | | | | | | I | | | | | | I | | | | | | I |
| HYDRAULIC SYSTEM/OIL LEVEL SYSTÈME HYDRAULIQUE/NIVEAU D'HUILE | | | | | | I | | | | | | I | | | | | | I | | | | | | I |
| HOSE & FITTINGS, LEAKS TUYAUX ET AGENCEMENTS, FUITES | | | I | | | I | | | I | | | I | | | I | | | I | | | I | | | I |
| CYLINDER SEALS JOINTS DE CYLINDRE | | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I |
| **STRUCTURAL SYSTEM / STRATÉGIE STRUCTURALE** | | | | | | | | | | | | | | | | | | | | | | | | |
| SADDLE BOLTS (150 FT-LBS) BOULONS DE SELLE (150 PI-LB) | | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I |
| LOCKING LEG BOLTS (100 FT-LBS) BOULONS DE PIED DE VERROUILLAGE (100 PI-LB) | | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I |
| STATIONARY JACK TO FRAME (60 FT-LBS) CRIC STATIONNAIRE DU CHÂSSIS (60 PI LB) | | | I | | | I | | | I | | | I | | | I | | | I | | | I | | | I |
| AXLE U-BOLTS (35 FT-LBS) BOULONS EN U D'ESSIEU (35 PI LB) | | | I | | | I | | | I | | | I | | | I | | | I | | | I | | | I |
| ADAPTER STOP BOLTS BOULONS D'ARRÊT D'ADAPTATEUR | | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I |
| INSPECT SADDLE/ADAPTERS FOR DAMAGE INSPECTEZ L'ENSEMBLE SELLE/ADAPTATEURS AFIN DE DÉCELER DES DOMMAGES | | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I | I |
| **PERIODIC MAINTENANCE / ENTRETIEN PÉRIODIQUE** | | | | | | | | | | | | | | | | | | | | | | | | |
| CHAIN AND SPROCKETS CHAÎNE ET PIGNONS | | | | | | L | | | | | | L | | | | | | L | | | | | | L |
| MOVING COVER PLATE GUIDES CANAL À ROULETTES | | | | | | L | | | | | | L | | | | | | L | | | | | | L |
| ROLLER CHANNEL CANAL À ROULETTES | | | | | | C | | | | | | C | | | | | | C | | | | | | C |
| HYDRAULIC OIL HUILE HYDRAULIQUE | CHANGE HYDRAULIC OIL EVERY 5 YEARS CHANGEZ L'HUILE HYDRAULIQUE TOUS LES CINQ ANS | | | | | | | | | | | | | | | | | | | | | | | |
| DRAIN CONDENSATION BOWL ON FRL DRAINEZ LE RÉCIPIENT DE CONDENSATION AU SOL | EVERY SEVEN DAYS TOUS LES SEPT JOURS | | | | | | | | | | | | | | | | | | | | | | | |

NOTE 1: A=ACTIVATE, I=INSPECT, C=CLEAN, L=LUBRICATE, R=REPLACE
NOTE 2: REPEAT INTERVAL AFTER 2 YEARS (*=REQUIRED ONLY FOR FIRST 6 MONTHS).

REMARQUE 1: A=ACTIVER, I=INSPECTER, C=NETTOYER, L=LUBRIFIER, R=REMPLACER
REMARQUE 2: RÉPÉTER L'INTERVALLE APRÈS 2 ANS (*=REQUIS UNIQUEMENT POUR LES SIX PREMIERS MOIS).

**OIL: AW 32** INSTALLATION DATE:_____
**HUILE : AW 32** DATE D'INSTALLATION :_____ **NP1162 Rev -**

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

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

**Maintenance Assistance:** Contact your local Rotary distributor.

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

**Rotary World Headquarters**
2700 Lanier Drive
Madison, IN 47250, USA
www.rotarylift.com

**North America Contact Information**
Tech. Support:
p 800.445.5438
f 800.578.5438
e userlink@rotarylift.com
Sales: p 800.640.5438
f 800.578.5438
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