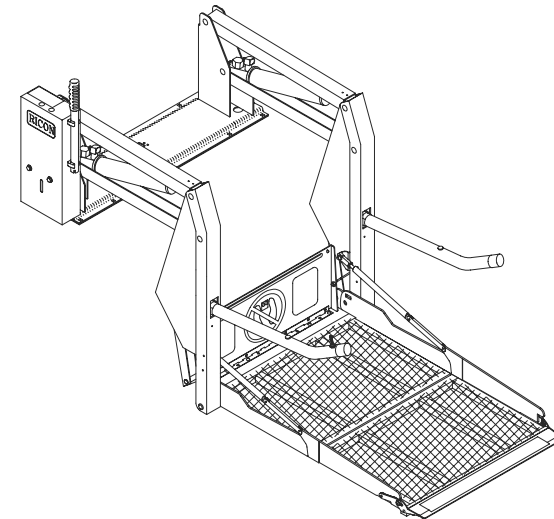




**Ricon**<sup>®</sup>  
A **Wabtec** company

**K-Series<sup>®</sup>**  
**KlearVue™ Folding Platform**  
**Wheelchair Lift for**  
**Personal and Transit Use**



**-PRINT-**  
**OPERATOR MANUAL**



10/15/11

32DSS101.D

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**THIS RICON PRODUCT MUST BE INSTALLED AND SERVICED BY A RICON DEALER OR QUALIFIED SERVICE TECHNICIAN.**

**THE OWNER MUST REFER TO THIS MANUAL FOR OPERATING INSTRUCTIONS, THEN RETAIN IT FOR FUTURE REFERENCE BY RICON DEALERS OR QUALIFIED SERVICE TECHNICIANS THAT PERFORM MAINTENANCE.**

Customer Name: \_\_\_\_\_  
Installing Dealer: \_\_\_\_\_  
Date Installed: \_\_\_\_\_  
Serial Number: \_\_\_\_\_

**REVISION RECORD**

REVISION	PAGES	DESCRIPTION OF CHANGE	ECR/ECO
32DSS101. D		Update to Cover	6560
	i	Update to Customer information.	
	1-1	Update to Contact information.	
	1-2	Update to Warranty statement.	
	2-1, 2	Update to Safety Precautions.	
	2-3	Added Figure 2-4. Updated consecutive figures.	
	2-7	Update to Lift Operation.	

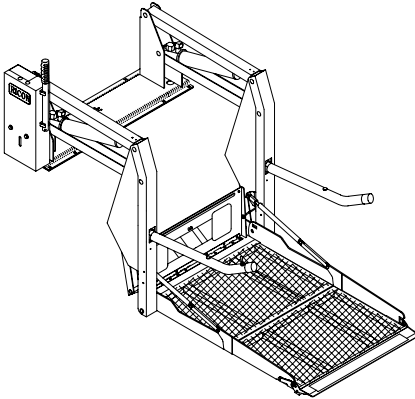
## TABLE OF CONTENTS

<i>Chapter</i>	<i>Page</i>
<b>I. INTRODUCTION.....</b>	<b>1-1</b>
A. RICON SERVICE SUPPORT .....	1-1
B. K-SERIES LIFT WARRANTY .....	1-2
C. SHIPMENT INFORMATION .....	1-3
D. GENERAL SAFETY PRECAUTIONS.....	1-3
E. MAJOR COMPONENTS .....	1-4
<b>II. K-SERIES OPERATING INSTRUCTIONS.....</b>	<b>2-1</b>
A. SAFETY PRECAUTIONS .....	2-1
B. DAILY SAFETY CHECK.....	2-3
C. LIFT FUNCTIONS .....	2-3
D. CONTROLS AND INDICATORS .....	2-4
▪ Control Pendant .....	2-4
▪ Interlock Indicator Light .....	2-5
▪ Circuit Breaker for Optional Door Operator .....	2-5
▪ Control System Circuit Breaker .....	2-5
▪ Pump Solenoid LED Status Indicator .....	2-5
▪ Main Circuit Breaker .....	2-6
▪ Manual Backup Pump.....	2-6
E. LIFT OPERATION .....	2-7
1. Entering Vehicle .....	2-8
2. Exiting Vehicle.....	2-8
3. Stowing Platform.....	2-9
4. Manual Operation.....	2-9
F. MAINTENANCE AND REPAIR NOTE.....	2-12
<b>III. MAINTENANCE AND REPAIR.....</b>	<b>3-1</b>
A. MAINTENANCE INFORMATION.....	3-1
B. CLEANING.....	3-1
C. LUBRICATION .....	3-1
D. MAINTENANCE SCHEDULE.....	3-2
E. K-SERIES DECALS .....	3-4

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**I. K-SERIES® PERSONAL USE INTRODUCTION**

This manual provides operating and maintenance instructions for the Ricon K-Series® Klear-Vue™ Personal Use wheelchair lift. The platform on the K-Series® splits horizontally to reduce the overall lift height when stowed. This results in a less obstructed view, either in or out of the vehicle.



The patented movement provides smooth, safe entry and exit, and easily lifts up to 364 kilograms (800 pounds). The lift contains a powerful electro-hydraulic pump that includes a built-in manual backup pump. If the lift loses power, it can be raised or lowered manually.

By using the lift control switches, the lift is unfolded out from the vehicle (deployed). The user boards the large non-skid platform and the operator uses the control switches to gently lower the platform to the ground. After the user departs, the platform is raised and folded into the vehicle (stowed). The lift platform splits and folds horizontally when stowed.

It is important to user safety that these operating instructions be read and understood by the lift operator. It is also important that the Ricon recommendations for cleaning, inspecting and lubricating the wheelchair lift be followed.

**A. RICON SERVICE SUPPORT**

If there are questions about this manual, or you need copies, please contact Ricon Product Support at the following location:

**Ricon Corporation**  
**7900 Nelson Road**  
**Panorama City, CA 91402**  
**Telephone: .....(818) 267-3000**  
**.....(800) 322-2884**

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**Vapor Ricon Europe Ltd**  
**Littlemoss Business Park**  
**Littlemoss Road**  
**Droylsden**  
**Manchester, M43 7EF ..... +44 (0)161 3016000**  
**World Wide Website: .....www.RiconCorp.com**

## B. K-SERIES® WHEELCHAIR LIFT WARRANTY

### FIVE-YEAR LIMITED WARRANTY

**Ricon Corporation (Ricon)** warrants to the original purchaser of this product that Ricon will repair or replace, at its option, any parts that fail because of defective material or workmanship as follows:

- Repair or replace parts for a period of one year from the date of purchase. A complete list of parts covered by this warranty can be obtained from a Ricon dealer.
- Labor costs for specified parts replaced under this warranty for a period of one year from date put into service. A Ricon rate schedule determines parts covered and labor allowed.
- Repair or replace lift powertrain parts for a period of five years from date of purchase. A complete list of parts covered can be obtained from your Ricon dealer or Ricon Product Support.

**If You Need to Return a Product:** Return this product to your installing dealer, or to Ricon, following the Ricon RMA procedure. Please give as much advance notice as possible, and allow a reasonable amount of time for repair.

**This Warranty Does Not Cover:**

- Labor or service charges.
- Malfunction or damage to product parts caused by accident, misuse, lack of proper maintenance, neglect, improper adjustment, modification, alteration, the mechanical condition of the vehicle, road hazards, overloading, failure to follow operating instructions, or acts of Nature (i.e., weather, lightning, flood).

**NOTE:** Ricon recommends that this product be inspected by a Ricon dealer or qualified service technician at least once every six months, or sooner if necessary. Any required maintenance should be performed at that time.



**WARNING!**

THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED TO EXACT SPECIFICATIONS.  
~ ANY MODIFICATION OF THIS PRODUCT CAN BE DANGEROUS ~

**This Warranty is Void If:**

- The product has been installed or maintained by someone other than a Ricon dealer or qualified service technician.
- The product has been modified or altered in any respect from its original design without written authorization by Ricon.

**Ricon disclaims liability for any personal injury or property damage that results from operation of a Ricon product that has been modified from the original Ricon design. No person or company is authorized to change the design of this Ricon product without written authorization by Ricon.**

**Ricon's obligation under this warranty is exclusively limited to the repair or exchange of parts that fail within the applicable warranty period.**

**Ricon assumes no responsibility for expenses or damages, including incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply.**

**Important: The warranty registration card must be completed and returned to Ricon within twenty-days after installation of this Ricon product for the warranty to be valid. The warranty is not transferable.**

**The warranty gives specific legal rights. There may be other rights that vary in each state.**

### **C. SHIPMENT INFORMATION**

Check the received product for freight damage. Claims for damage should be made to the freight carrier immediately.

Be sure the installation kit contains all items listed on the included bill-of-material. Please report any missing items immediately to the Ricon Product Support Department. The warranty and owner's registration cards must be completed and returned to Ricon within 20 days for the warranty to be valid.

### **D. GENERAL SAFETY PRECAUTIONS**

The following safety precautions must be adhered to during operation, service and maintenance:

- An injury, no matter how slight, must be attended to. Administer first aid or seek medical attention immediately.
- Exercise caution when operating lift to avoid injury, and be certain that hands, feet, legs or clothing are not in path of the platform as it moves.
- Read and thoroughly understand the operating instructions before attempting to operate the lift.
- Inspect product before each use. Do not operate lift if an unsafe condition is present, or there is unusual noise or movement.
- Keep others clear during lift operation.
- The lift requires regular maintenance. Ricon recommends a thorough inspection every six months. Maintain the product at its highest level of performance.



## E. MAJOR COMPONENTS

The major components of the K-Series® KlearVue lift are in **Figure 1-1**. A description of each of the components is in **Table 1-1**.

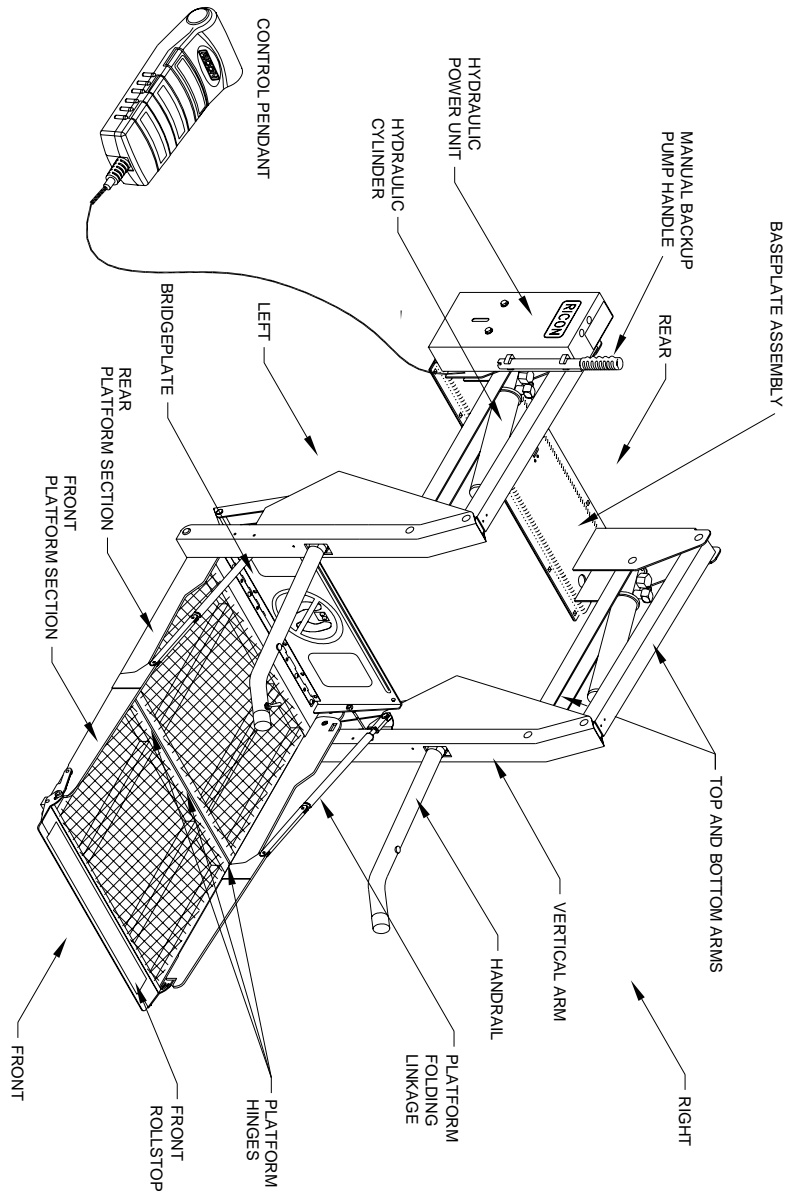


FIGURE 1-1: K-SERIES MAJOR COMPONENTS

<b>TABLE 1-1: KLEARVUE MAJOR COMPONENTS</b>	
<b>NAME</b>	<b>DESCRIPTION</b>
Left	Position references when viewing installation from outside of vehicle.
Right	
Front	
Rear	
Top and Bottom Arms	(Left and Right) Upper and lower links connecting vertical arms to base assembly.
Vertical Arms	(Left/Right) Connect platform to top and bottom arms.
Handrails	(Left/Right) Provide handhold for user. Handrails may vary from that shown.
Tie-Rod Assembly	(Left and Right) Links that cause platform to unfold as it deploys or fold as it stows.
Occupant Restraint Belt (K-2005 model)	Electrically interlocked safety belt that prevents acceleration of wheelchair from platform. Lift will not operate if belt is unbuckled.
Front Rollstop	Front barrier prevents wheelchair from inadvertently rolling off of platform during lift operation.
Platform	Component of lift where wheelchair and occupant sit during "Up" and "Down" operations.
Platform Front Section	Front portion of platform that folds during deploy and stow.
Bridgeplate (Inboard Rollstop)	Plate that bridges gap between platform and lift baseplate when platform is at floor level. Also acts as a rear rollstop when platform is in motion.
Hydraulic Cylinders	(Left and Right) Telescoping cylinders convert hydraulic pressure into lifting force.
Hydraulic Power Unit	Electric motor driven pump produces hydraulic pressure that raises platform; also contains a relief valve to unfold and lower platform.
Control Pendant	Hand-held control box manages lift operating functions.
Manual Backup Pump Handle	Used to operate the manual back-up pump (located on hydraulic power unit).
Baseplate Assembly	Bolts to vehicle floor; provides secure foundation for lift.
<b>END OF TABLE</b>	

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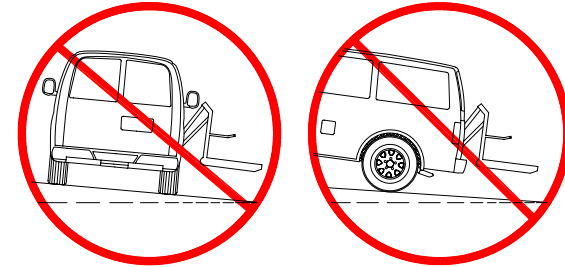
## II. K-SERIES® LIFT OPERATING INSTRUCTIONS

This chapter contains safety precautions, daily safety check instructions, control and indicator descriptions, and operating instructions for the RICON K-Series® KlearVue™ Wheelchair Lift. This chapter must be thoroughly understood by operator before using lift.

### A. SAFETY PRECAUTIONS

The following safety precautions must be complied with at all times when operating lift:

- Refer to **Figure 2-1**. Deploying lift when vehicle is on sloped ground is hazardous. Operate lift with vehicle parked on level ground.
- Vehicle must be safely parked with parking brake ON before using lift.



**FIGURE 2-1: SLOPED PARKING HAZARD**

- Inspect lift before use. DO NOT use lift if any unsafe condition exists, or unusual noises or movements are noticed, and contact a Ricon dealer or qualified service technician for repair.
- Read and comply with all warning labels and symbols affixed to wheelchair lift.
- Refer to **Figure 2-2**. Wheelchair occupant must face outward on platform when entering or exiting vehicle. Due to variations in the size and configuration of mobility aids, for maximum safety, Ricon requires that passengers always face outward when riding the lift platform.



**FIGURE 2-2: ALWAYS FACE OUTBOARD WHEN RIDING ON THE LIFT PLATFORM**

- It is never safe for a wheelchair occupant to exit a vehicle facing inboard. It is not safe to rely on a threshold warning device (audible or other) to confirm that it is safe to exit vehicle while facing inboard. Exiting the vehicle while facing outboard allows for visual confirmation that the lift platform has been raised in the event that the threshold warning device is inoperative or unheard and prevents the occupant from exiting the vehicle backwards when the platform is still on the ground.
- When exiting vehicle, verify that platform is at same height as floor and front rollstop is up and locked.

- Do not place equipment or furniture inside vehicle that may prevent pivoting of your wheelchair. Being able to pivot assures that you can safely exit facing outward.
- The outer rollstop is intended to prevent slow, or unintentional, rolling off the platform. The outer rollstop is not designed to stop a quick moving wheelchair. The wheelchair might tip and possibly injure its occupant if the small front wheels collide hard with the rollstop. The large rear wheels of a quick moving wheelchair can also roll over the rollstop. Use great care, board platform slowly, and lock wheelchair brakes.
- Be certain wheelchair fits safely on platform; it must not extend beyond edges or interfere with operation of rollstop.
- Do not operate with a load in excess of 800 lbs (364 kg).
- Keep arms, legs, and clothing away from moving lift parts.
- The lift is intended for ONE wheelchair and its occupant. Do not overload lift.
- **Refer to Figure 2-3.** Keep others clear while operating lift.



**FIGURE 2-3: STAND CLEAR OF PLATFORM**





- Do not allow an untrained person to operate lift.
- Careful supervision is necessary if used by or near children.
- Do not allow anyone to stand on bridgeplate. A bent bridgeplate can interfere with the platform as it raises and lowers.
- **LOCK WHEELCHAIR BRAKES** before moving platform (power chair users should turn off power and set brake).
- Use great care in wet conditions, because the wheelchair brakes are less effective if wheels or platform are wet.
- Never leave platform outside of vehicle. Return lift to stowed position after use.
- Do not place a wheelchair on lift if it is too large for the vehicle. The wheelchair must be able to pivot freely inside vehicle to comply with lift instructions for entering and exiting vehicle.
- Read and understand these safety precautions. Review them periodically and ask any attendants or other operators to read them as well. Contact a Ricon dealer or Ricon Product Support if there are questions.

## **B. DAILY SAFETY CHECK**

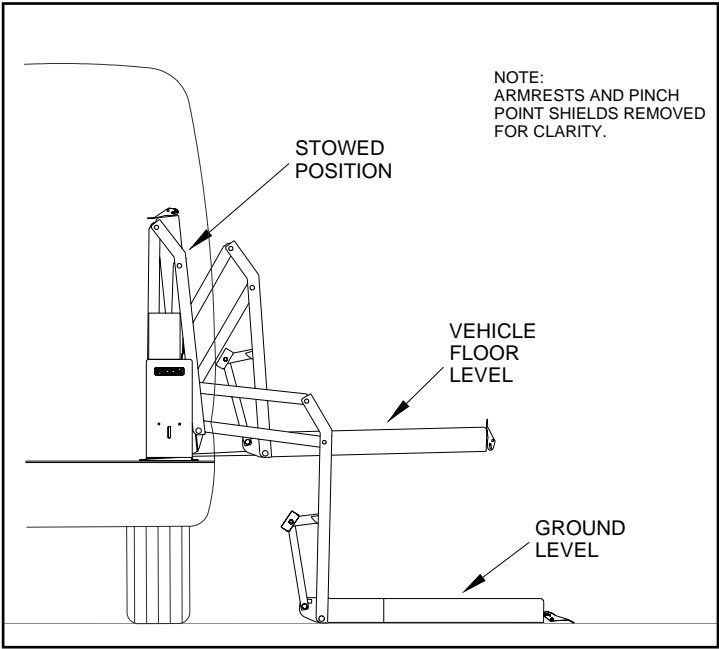
Inspect lift before use and meet the following conditions:

- All functions operate properly. **DO NOT** use lift if unusual noises or movements exist, and contact a Ricon dealer or qualified service technician for repair.
- Vehicle interlock is operating properly.
- No objects that may interfere with operation are present.
- General appearance and lubrication are satisfactory and all fasteners are tight.

**C. LIFT FUNCTIONS**


TABLE 2-1: LIFT FUNCTIONS		
FUNCTION	DESCRIPTION	
	DEPLOY	Platform unfolds and deploys from stowed position. (the doors will automatically open before lift deploys if vehicle is equipped with a power door operator).
	DOWN	Platform lowers from floor level to ground level. (rollstop lowers automatically when platform contacts ground).
	UP	Platform raises from ground level to floor level. (rollstop raises automatically when platform leaves ground).
	STOW	Platform folds and stows from floor level. (the doors will automatically close after lift is stowed if vehicle is equipped with a power door operator).
<b>END OF TABLE</b>		

NOTE: The up and down functions do not operate when platform is stowed.



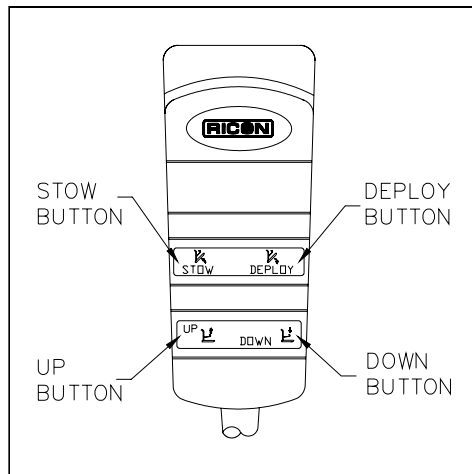
**FIGURE 2-4: PLATFORM POSITIONS**

## D. CONTROLS AND INDICATORS

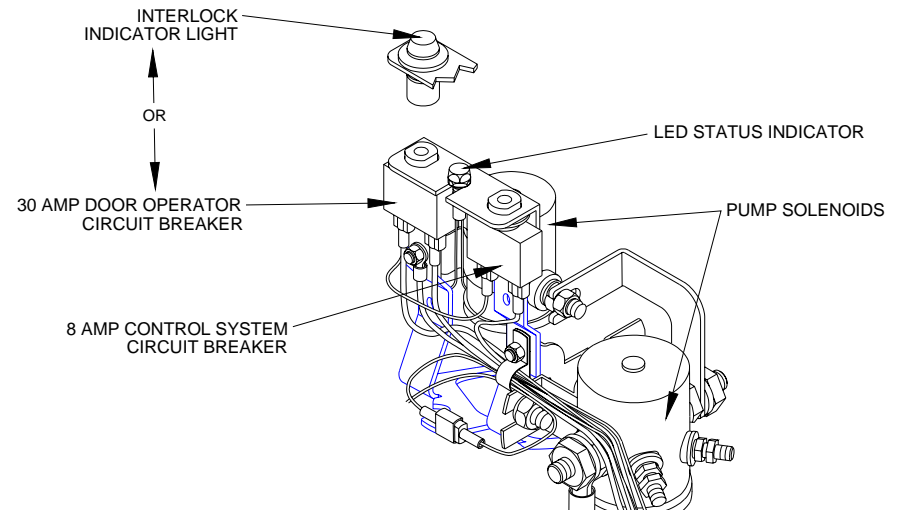
 <b>WARNING</b>	
THE LIFT CAN OPERATE ONLY WHEN PERMITTED TO BY THE VEHICLE INTERLOCK CIRCUITRY. DO NOT OPERATE LIFT WITH INTERLOCK BYPASSED. REFER TO VEHICLE OWNER/OPERATOR MANUAL FOR INTERLOCK INSTRUCTIONS BEFORE OPERATING LIFT.	

### ■ Control Pendant

Refer to **Figure 2-5**. The lift is operated with two rocker buttons located on a hand-held, hard-wired remote-control pendant. Each lift function is controlled by pushing one end of the appropriate button. Pushing the DEPLOY button unfolds platform from vehicle, and pushing the STOW button folds platform into vehicle. Pushing the DOWN button lowers platform towards ground, and pushing the UP button raises platform towards floor. Buttons must be held depressed until function completes. The pendant is stowed on a wall-clip inside vehicle.



**FIGURE 2-5: LIFT CONTROL PENDANT**



**FIGURE 2-6: INDICATOR LIGHT/ CIRCUIT BREAKERS**

- Interlock Indicator Light

Refer to **Figure 2-6**. The vehicle interlock system prevents operation of lift when it is unsafe. The interlock indicator light reveals whether interlock is operating properly, if an interlock system is interfaced with lift. The light stays illuminated at all times if there is no interlock system installed. The indicator light illuminates when the interlock system provides electrical power to lift, and is off when power is removed.

- Circuit Breaker for Optional Door Operator

Refer to **Figure 2-6**. The circuit breaker for optional door operator is mounted on hydraulic pump assembly. The circuit breaker button pops up when there is a short circuit in door operator. DO NOT hold button pressed if pressing and releasing button does not restore power. Contact a Ricon dealer or qualified service technician for repair. Refer to appropriate Ricon Power Door Operator Service Manual for a detailed description.

- Control System Circuit Breaker

Refer to **Figure 2-6**. The Control System Circuit Breaker is mounted on hydraulic pump assembly. The circuit breaker button pops up when there is a short circuit in the control system. DO NOT hold button pressed if pressing and releasing button does not restore power. Contact a Ricon dealer or qualified service technician for repair.

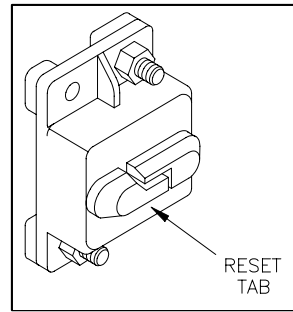
- Pump Solenoid LED Status Indicator

Refer to **Figure 2-6**. A second pump solenoid is installed next to the original pump solenoid and a LED is located between the 8A and 30A circuit breakers. The LED monitors the condition of the two solenoids. The LED is normally green when the pump is operating and off when the pump is off. For more information on this LED refer to the service manual 32DSSP02.



■ Main Circuit Breaker

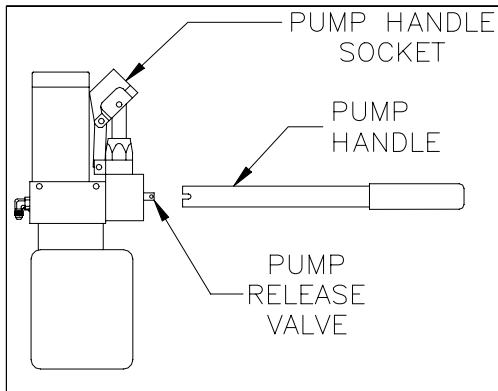
Refer to **Figure 2-7**. The main circuit breaker, located in engine compartment, interrupts electrical power to the lift electrical system when a short circuit occurs. The circuit breaker reset tab is shown in the normal, or reset, position. The circuit breaker reset tab flips down when a short circuit occurs. DO NOT hold button pressed if pressing and releasing button does not restore power. Contact a Ricor dealer or qualified service technician for repair.



**FIGURE 2-7: MAIN CIRCUIT BREAKER**

■ Manual Backup Pump

Refer to **Figure 2-8**. The manual backup pump raises the platform when electrical power is not functional. Controls for the pump consist of a handle for raising platform, and a release valve for lowering it. Instructions for operating the manual pump are in the MANUAL OPERATION paragraph of the LIFT OPERATION section in this chapter.



**FIGURE 2-8: MANUAL BACKUP PUMP & HANDLE**

## E. LIFT OPERATION



### WARNING

IMPROPER USE OF LIFT CAN RESULT IN PERSONAL INJURY. USERS MUST READ AND FOLLOW OPERATING INSTRUCTIONS IN OPERATOR MANUAL. ADDITIONAL COPIES OF OPERATOR MANUAL ARE AVAILABLE FROM:

RICON CORPORATION  
7900 NELSON ROAD  
PANORAMA CITY, CA 91402  
(800) 322-2884 OR (818) 267-3000

- DO NOT EXCEED RATED LOAD CAPACITY OF 800 POUNDS (364 KG).
- PRIOR TO USE, INSPECT WHEELCHAIR LIFT FOR PROPER FUNCTION, REQUIRED MAINTENANCE, AND DAMAGE. IF A PROBLEM EXISTS, DO NOT USE LIFT AND CONTACT A RICON DEALER OR QUALIFIED SERVICE TECHNICIAN FOR REPAIR.
- THIS LIFT IS DESIGNED FOR USE BY WHEELCHAIR OCCUPANTS ONLY.

RICON CORPORATION DISCLAIMS LIABILITY FOR DAMAGE OR PERSONAL INJURY RESULTING FROM MODIFICATION TO LIFT, LACK OF MAINTENANCE OR REPAIR, NEGLIGENCE, ABUSE, OR FAILURE TO FOLLOW LIFT OPERATING INSTRUCTIONS.

- Be certain vehicle is safely parked on a level area away from traffic before operating lift. Allow space for lift operation and passenger boarding.
- The lift operator must take special care to be certain that area is clear before deploying lift. Be certain there are no obstacles beneath platform.
- Open doors manually if vehicle is not equipped with a Power Door Operator. The vehicle door(s) will open automatically before platform deploys and close after platform is stowed, if vehicle is equipped with a Power Door Operator.
- Engage the vehicle safety interlock system (e.g. transmission, parking brake, etc), if so equipped, before operating lift. The lift **will not** operate until this is accomplished.



### WARNING

ATTENDANT SHOULD ALWAYS REMAIN NEAR PASSENGER TO RENDER IMMEDIATE ASSISTANCE, IF NECESSARY. KEEP OTHERS CLEAR WHEN OPERATING LIFT. MAINTAIN PRESSURE ON BUTTON UNTIL FUNCTION COMPLETES. BE CERTAIN WHEELCHAIR FITS PROPERLY ON PLATFORM AND DOES NOT CONTACT ROLLSTOP, PREVENTING IT FROM LOCKING AS PLATFORM RAISES.

## 1. ENTERING VEHICLE:

- a. **DEPLOY PLATFORM** - Push and hold DEPLOY button until platform unfolds completely from vehicle and stops at floor level.



- b. **LOWER PLATFORM** - DO NOT STAND on inboard rollstop as platform lowers. Push and hold DOWN switch until lift contacts ground and rollstop opens completely.
- 1) Carefully place wheelchair in center of platform, **facing outward** away from vehicle, and LOCK WHEELCHAIR BRAKES.
  - 2) Be certain wheelchair is safely within platform perimeter and will not interfere with operation of front platform rollstop.
- c. **RAISE PLATFORM** - Push and hold UP button until platform raises and stops at vehicle floor level. Rollstop must raise when platform leaves ground.
- 1) Release wheelchair brakes, carefully board passenger into vehicle, and secure wheelchair.
- d. Refer to “Stowing Platform” section to stow platform.

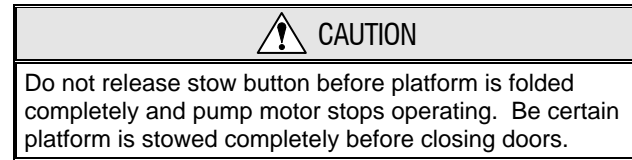
## 2. EXITING VEHICLE:

- a. **DEPLOY PLATFORM** - Push and hold DEPLOY button until platform completely unfolds from vehicle and stops at floor level.
- 1) Be certain platform is safely at vehicle floor level, front platform rollstop is in an up and locked position and bridgeplate is resting on baseplate.
  - 2) Carefully place wheelchair in center of platform, facing **outward** away from vehicle, and LOCK WHEELCHAIR BRAKES.
- b. **LOWER PLATFORM** – DO NOT STAND on inboard rollstop as platform lowers. Push and hold DOWN button until platform settles at ground level. Carefully exit platform.
- c. **RAISE PLATFORM** – Push and hold UP switch until platform rises to vehicle floor level.



### 3. STOWING PLATFORM:

- Push and hold STOW button until platform is completely within vehicle.

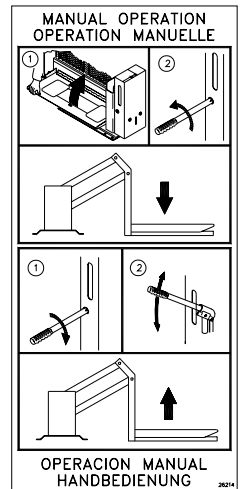


### 4. MANUAL OPERATION:

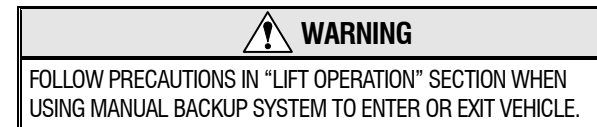
Refer to **Figure 2-9**. The lift can be operated manually if lift electrical power is not functional.

Preparation:

- Be certain vehicle is on a level area and away from traffic. Allow enough space for lift operation and passenger boarding.
- The operator must summon emergency assistance to move vehicle to a safe operating area if a break down situation exists and vehicle cannot be moved under its own power.
- Check to be certain obstacles are not in path of lift.
- Open door(s) manually if vehicle is not equipped with a Power Door Operator. If equipped with a Power Door Operator, refer to its Operator Manual for manual operation instructions.
- Consider that vehicle beeper may not be operating, and caution people in vicinity that platform is about to deploy.



**FIGURE 2-9: MANUAL OPERATION**



#### Deploy Platform

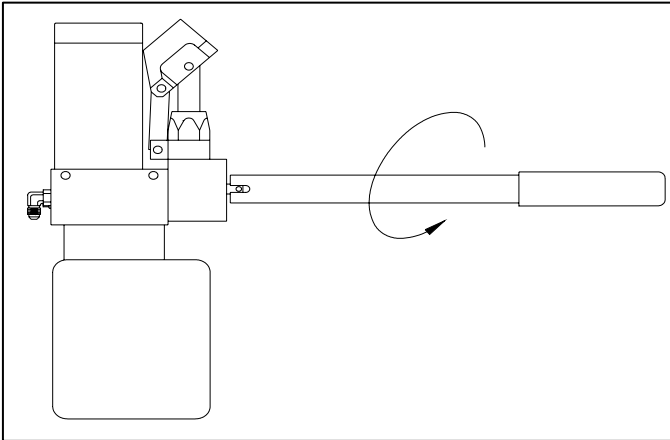
- 1) Release "Sto-Loc" by lifting bridgeplate (inboard rollstop). If "Sto-Loc" is difficult to release, use manual backup pump to remove tension from catch; refer to "Stow Platform" paragraph in this section.
- 2) Insert notched end of pump handle through "RELEASE VALVE" hole in pump cover, and engage pump release valve.



## CAUTION

Do not open pump release valve more than  $\frac{1}{4}$ -turn. Opening valve further may cause it to completely disengage from pump body, which will disable its pumping ability.

- 3) Refer to **Figure 2-10**. Turn valve  $\frac{1}{4}$  turn COUNTER-CLOCKWISE to begin lowering platform. Turn valve CLOCKWISE when platform reaches floor level; do not over-tighten valve. Do not lower platform below level. The rear edge of bridgeplate (in-board rollstop) must rest flat against lift baseplate.



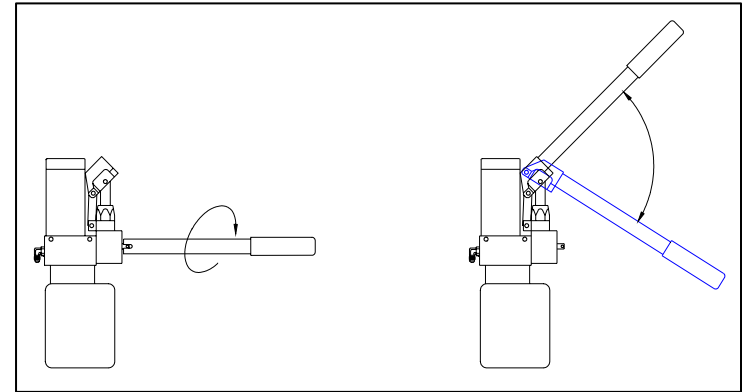
**FIGURE 2-10: MANUAL BACK-UP PUMP - DEPLOY AND LOWER PLATFORM**

### Lower Platform

- 1) Turn valve  $\frac{1}{4}$  turn COUNTER-CLOCKWISE to begin lowering platform.
- 2) Hold valve OPEN until platform settles at ground level. Turn handle CLOCKWISE to close valve; do not over-tighten valve.

### Raise Platform

- 1) Refer to **Figure 2-11**. Verify that pump release valve is closed.



**FIGURE 2-11: MANUAL BACK-UP PUMP – RAISE PLATFORM**

- 2) Insert pump handle into socket. Operate pump to raise platform. Do not raise platform above floor level. The rear edge of bridgeplate must rest flat against lift baseplate.

### Stow Platform

- 1) Refer to **Figure 2-10**. Verify that pump release valve is closed.
- 2) Insert pump handle into pump handle socket. Operate pump to raise platform.
- 3) Continue operating pump until platform is COMPLETELY within vehicle.
- 4) Stow pump handle. Close vehicle doors.

## F. MAINTENANCE AND REPAIR NOTE

Follow the lubrication, cleaning, and maintenance instructions in the following chapter, MAINTENANCE. These instructions will optimize the operating condition of wheelchair lift.

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### III. K-SERIES® MAINTENANCE

Regular maintenance of the Ricon K-Series® KlearVue™ Lift will optimize its performance and minimize the need for repairs. This chapter contains lubrication and cleaning instructions, plus a maintenance schedule.

#### A. MAINTENANCE INFORMATION

Additional maintenance information is available in the K-Series Service manual, part number 32DSS102. This manual is available from Ricon in printed hard copy, or at the Ricon website in PDF format. The website is located at [www.riconcorp.com](http://www.riconcorp.com). Click on RICON CORPORATION and then DEALER'S ROOM at the website. Entry to the dealer's room will require a Dealer Number and a Password.

 <b>CAUTION</b>
THIS RICON PRODUCT IS HIGHLY SPECIALIZED. MAINTENANCE AND REPAIRS MUST BE PERFORMED BY A RICON DEALER OR QUALIFIED SERVICE TECHNICIAN USING RICON REPLACEMENT PARTS.

#### B. CLEANING

Regular cleaning of lift with mild soap and water (i.e. liquid dish soap or car wash liquid) and drying thoroughly will protect painted surfaces. Cleaning is especially important in areas where roadsalt is applied in winter. Make sure lift pivot points remain clear and clean prior to lubrication.

#### C. LUBRICATION

 <b>CAUTION</b>
Do not lubricate electric motor or other electrical components. Oil attracts debris, which may cause a short circuit.

Lubrication should be performed at least every six months, or sooner, if usage is heavy. Refer to **Figure 3-1** and the following Maintenance Schedule. Lubricate lift at points specified.

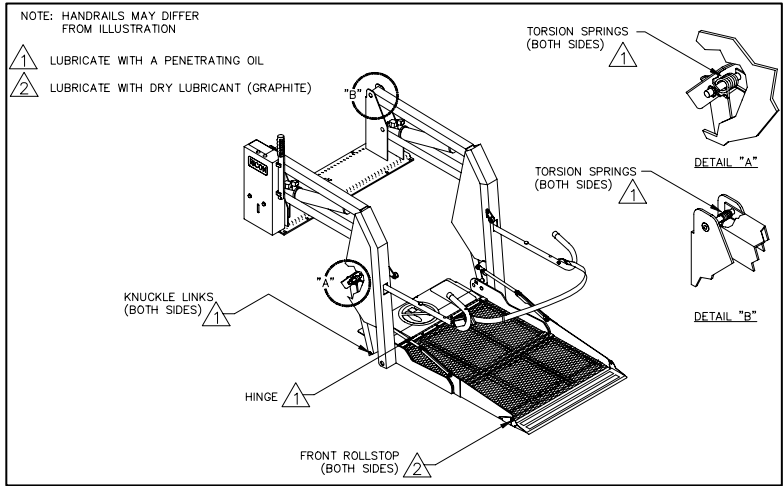




Figure 3-1: Lift Lubrication Points



## D. MAINTENANCE SCHEDULE

Under normal operating conditions, maintenance inspections are required at least every six months (1750 cycles), and a thorough inspection should be performed at the intervals in **Table 3-1**. Service should be increased under conditions of heavy use (more than 10 cycles per day.)

TABLE 3-1: MAINTENANCE SCHEDULE	
SERVICE POINT	ACTION TO PERFORM
<b>DAILY SAFETY CHECK</b>	
Overall Condition	Listen for abnormal noises as lift operates (i.e. grinding or binding noises.)
Control Pendant	Verify that control pendant is undamaged and cable connectors are tight.
<b>TWO WEEK SAFETY CHECK</b>	
Overall Condition	<ul style="list-style-type: none"> <li>▪ Listen for abnormal noises as lift operates (i.e. grinding or binding noises.)</li> <li>▪ Inspect underside of vehicle for anything that is out of place.</li> </ul>
Control Pendant	Verify that control pendant is undamaged and cable connectors are tight.
Electrical Wiring	Inspect electrical wiring for frayed wires, loose connectors, etc.
Vehicle Interlock	Place vehicle in NON-INTERLOCK mode and attempt to operate lift.
Decals	Verify that lift decals are properly affixed, clearly visible, and legible. Replace, if necessary.
Handrails	Verify that handrail fasteners are properly tightened.
Lift Mounting Points	<ul style="list-style-type: none"> <li>▪ Verify that vehicle mounting and support points are undamaged.</li> <li>▪ Verify that mounting bolts are sufficiently tight.</li> </ul>
Main Lifting Pivots	Verify that arm pins are properly installed, free from damage, and locked in position.
Platform Pivot Points	Verify that platform moves freely, without binding, and does not wobble.
Bridgeplate (Inner rollstop)	<ul style="list-style-type: none"> <li>▪ Verify that bridgeplate operates without binding during lift functions.</li> <li>▪ Verify that bridgeplate deploys fully when platform stops at floor level.</li> <li>▪ Verify bridgeplate rests flat against baseplate.</li> </ul>
Front Rollstop	<ul style="list-style-type: none"> <li>▪ Verify that rollstop opens completely when platform contacts ground.</li> <li>▪ Verify that rollstop closes and locks when platform leaves ground.</li> </ul>

TABLE 3-1: MAINTENANCE SCHEDULE	
SERVICE POINT	ACTION TO PERFORM
Hydraulic Power Unit	 <b>CAUTION</b>
	Check and add fluid when platform is at GROUND level. Fluid added when lift is raised will overflow when platform is lowered.
	<ul style="list-style-type: none"> <li>▪ Verify that pump hydraulic fluid level is at FULL mark when platform is at ground level. Add Texaco 01554 Aircraft Hydraulic Oil or equivalent U.S. mil spec H5606G fluid.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Verify there are no hydraulic fluid leaks.</li> <li>▪ Verify that manual release valve is closed.</li> </ul>
<b>SIX MONTH SAFETY CHECK (or 1750 cycles of operation)</b>	
Handrails	Verify that all handrail fasteners are properly tightened.
Cleaning and Lubrication	<ol style="list-style-type: none"> <li>1. Clean lift with mild soap and water and wipe dry. Prevent rust by coating all surfaces with a light oil. Remove excess oil.</li> <li>2. Spray penetrating oil (Curtisol® Red Grease 88167 or WD-40®) where specified in <b>Figure 3-1</b>, following directions on container. Remove excess grease from surrounding areas.</li> </ol>
 <b>CAUTION</b>	
The annual safety check must be performed by a Ricon dealer or qualified service technician.	
<b>ANNUAL SAFETY CHECK (or 3500 cycles of operation)</b>	
Hydraulic Cylinder, Hoses and Fittings	<ul style="list-style-type: none"> <li>▪ Check hydraulic cylinder for evidence of leaks.</li> <li>▪ Inspect hydraulic hoses for damage.</li> <li>▪ Verify that all fittings are tight.</li> </ul>
<b>END OF TABLE</b>	

## E. K-SERIES DECALS

Refer to **Figure 3-2** for the location and part numbers of lift decals. Check decals for chipping, peeling, fading, and illegibility. Check decals at intervals listed in **Table 3-1**, and replace as necessary. The decals must be located and orientated as shown. Note that part number for serial number decal is not provided, because it must be replaced by Ricon.

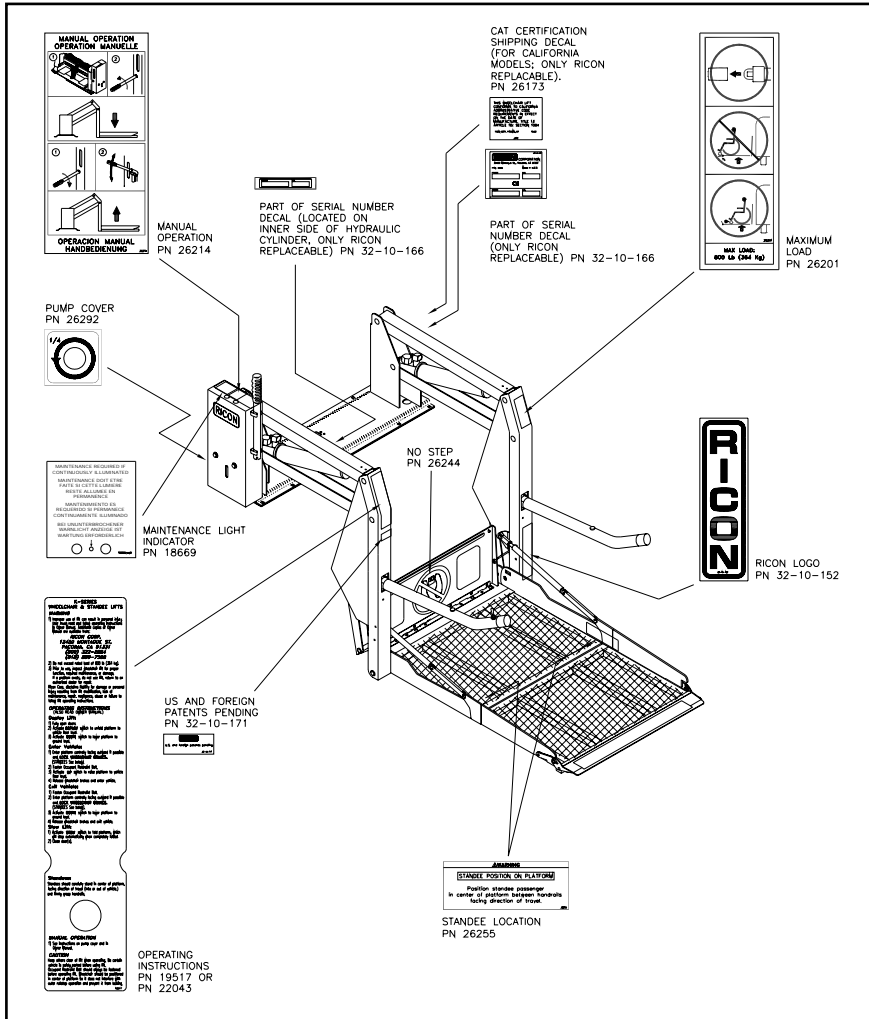


Figure 3-2: Decal Locations and Part Numbers