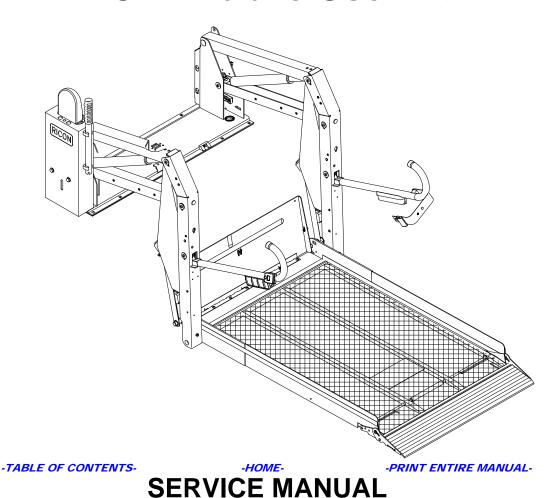


# S-Series® DOT - Public Use Lift



02/25/14

FEBRUARY 2014	S-SERIES PUBLIC USE SERVICE MANUAL	TABLE OF CONTENTS

This Ricon service manual is for use by qualified service technicians, and is not intended for use by non-professionals (do-it-yourselfers). The manual provides essential instructions and reference information, which supports qualified technicians in the correct installation and maintenance of Ricon products.

Qualified service technicians have the training and knowledge to perform maintenance work properly and safely. For the location of a service technician in your area, call Ricon Product Support at 1-800-322-2884.

"DOT – Public Use Lift" verifies that this platform lift meets the public use lift requirements of FMVSS no. 403. This lift may be installed on all vehicles appropriate for the size and weight of the lift, but must be installed on buses, school buses, and multi-purpose passenger vehicles other than motor homes with a gross vehicle weight rating (GVWR) that exceeds 10,000 lbs (4,536 kgs).

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

# **REVISION RECORD**

REV	PAGES	DESCRIPTION OF CHANGE	ECO
	Cvr	Update to date.	
	4-5	Update to item 5A	
	4-7	Update to item 27	
	4-15	Update to item 2	
	4-15	Update to item 2A	
	4-15	Added item 2C	
	4-15	Added item 4A	
32DSST04.	4-15	Added item 5A	0000
D.4	4-16	Added item 33B	6663
	4-16	Added item 33C	
	4-19	Added item 1A/1B	
	4-19	Update to item 13	
	4-21	Added item 69B	
	4-21	Update to items 70 and 70A	
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<u> </u>	4-23	Added item 3C and 4C	

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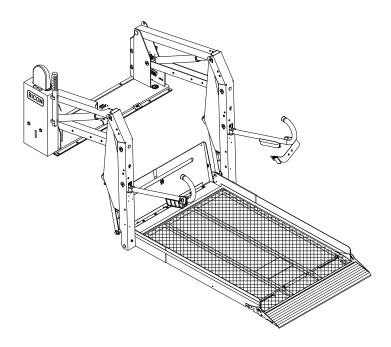
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# I. S-SERIES® PUBLIC INTRODUCTION

he RICON S-Series<sup>®</sup> Public Use wheelchair lift provides wheelchair access to vans and buses. The patented movement provides smooth, safe entry and exit and lifts up to 800 pounds. It is to be operated by a trained attendant. The lift contains a powerful electro-hydraulic pump that includes a built-in manual backup pump. If the lift loses electrical 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 is also available with a platform that splits and folds when stowed, providing easy vehicle access through the lift.

This manual contains installation instructions; maintenance and repair instructions; troubleshooting guide; parts and diagram lists. It is important to user safety that the lift operator be completely familiar with the operating instructions. Once the lift is installed, it is very important that the lift be properly maintained by following the Ricon recommended cleaning, lubrication, and inspection instructions.



### A. RICON PRODUCT SUPPORT

If you have questions about this manual, or additional copies are needed, please contact Ricon Product Support at one of the following locations:

Ricon Corporation 7900 Nelson Road

Panorama City, CA 91402	(818) 267-3000
Outside (818) Area Code	(800) 322-2884
Websitewww	w.riconcorp.com

Vapor Ricon Europe Ltd.

**Meadow Lane** 

Loughborough, Leicestershire LE11 1HS ......0044 (9) 1509 635 920

**United Kingdom** 

Website ......www.riconuk.com

### **B. RICON FIVE-YEAR LIMITED WARRANTY**

# RICON S-SERIES® PUBLIC 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 part that fails due to defective material or workmanship as follows:

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

If you need to return a product: Return this product to Ricon. Please give as much advance notice as possible, and allow a reasonable amount of time for repairs.

**This warranty does not cover:** 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. Required maintenance should be performed at that time.

# / WARNING

THIS PRODUCT HAS BEEN DESIGNED AND MANUFACTURED TO EXACT SPECIFICATIONS.

MODIFICATION OF THIS PRODUCT IN ANY RESPECT CAN BE DANGEROUS.

### This warranty is void if:

- The product has been installed or maintained by someone other than a Ricon dealer or a 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 20 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 from state to state.



### C. SHIPMENT INFORMATION

- When the product is received, unpack the product and check for freight damage. Claims for any damage should be
  made to the carrier immediately.
- Verify that the installation kit contains all items listed on the enclosed packing list. Please report any missing items
  immediately to Ricon Product Support. The warranty and owner registration cards must be completed and returned
  to Ricon within 20 days for the warranty to be valid.

**NOTE:** The Sales or Service personnel must review the Warranty and this Operator Manual with the user to be certain that they understand how to safely operate the product. Instruct the user to follow the operating instructions without exception.

### D. GENERAL SAFETY PRECAUTIONS

The following general safety precautions must be followed during installation, operation, and maintenance:

- Under no circumstances should installation, maintenance, repair, and adjustments be attempted without the immediate presence of a person capable of rendering aid.
- An injury, no matter how slight, should always be attended. Always administer first aid or seek medical attention immediately.
- · Protective eyeshields and appropriate clothing should be worn at all times.
- To avoid injury, always exercise caution when operating and be certain that hands, feet, legs, and clothing are not
  in the path of product movement.
- Batteries contain acid that can burn. If acid comes in contact with skin, flush affected area with water and wash with soap immediately.
- Always work in a properly ventilated area. Do not smoke or use an open flame near a battery.
- Do not lay anything metallic on top of a battery.
- Check under vehicle before drilling to avoid drilling into frame, subframe members, wiring, hydraulic lines, fuel lines, fuel tank, etc.
- Read and thoroughly understand the operating instructions before attempting to operate.
- Inspect the product before each use. If an unsafe condition is noted, such as unusual noises or movements, do not use lift until the problem is corrected.
- Never load or stand on the platform until installation is complete. Upon completion of installation, test load the lift to 100% of its rated load capacity.
- Stand clear of doors and platform and keep others clear during operation.
- The product requires regular periodic maintenance. Inspections are recommended at the intervals prescribed in chapter three. The product must be maintained at the highest level of performance.

### E. MAJOR LIFT COMPONENTS

The references used throughout this manual are illustrated in **Figure 1-1** and defined in the **Table 1-1**. Refer to **Chapter IV** "Parts Diagrams and Lists" for more details.

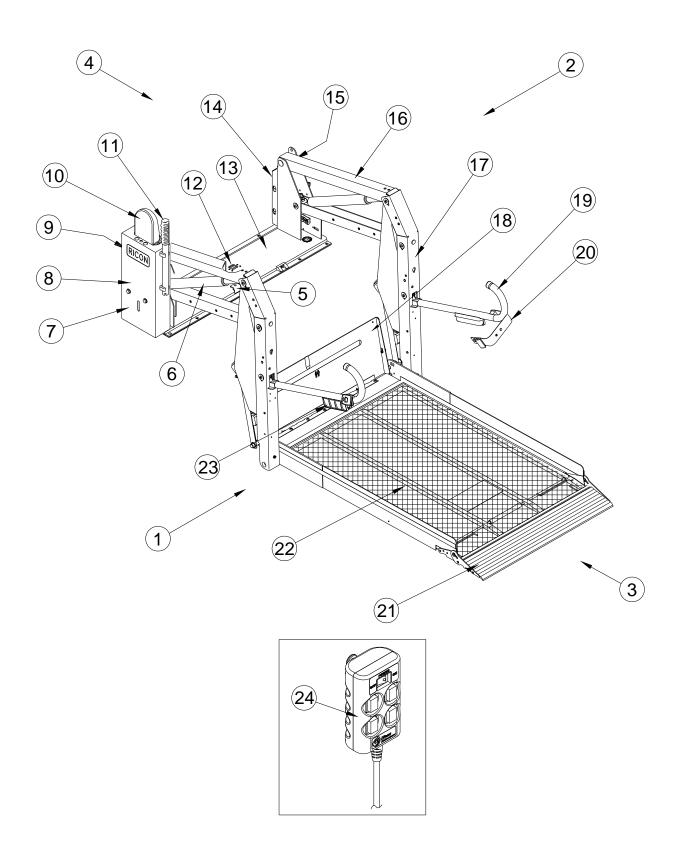


FIGURE 1-1: PUBLIC USE WHEELCHAIR LIFT

	TABLE 1-1: S-SERIES PUBLIC USE LIFT COMPONENT TERMS				
REF	NAME	DESCRIPTION			
1, 2, 3, 4	Left, right, front, rear	Position references when lift is viewed from outside of vehicle.			
5	Bridgeplate load sensor	Senses if weight is present on the lowered bridgeplate.			
6	Hydraulic cylinder	(left and right) Telescoping single-acting cylinders convert hydraulic pressure into platform lifting and folding force.			
7	Hydraulic power unit	Contains hydraulic pump driven by electric motor that produces pressure to raise and fold platform, and a pressure release valve to unfold and lower it.			
8	Audible alarm	(inside housing for hydraulic unit) Announces when something has passed over threshold. Activated by threshold beam.			
9	Cycle counter	Visible at rear of housing, it records number of times platform has moved from floor to ground and back to floor.			
10	Visual alarm	Flashing light makes it known when something has passed over threshold. Activated by threshold beams.			
11	Manual backup pump handle	Used to operate manual back up-pump (located on hydraulic power unit cover).			
12	Stow-Lock catch	Engages latch located on bottom of bridgeplate when platform is fully stowed.			
13	Baseplate assembly	Bolts to vehicle floor; provides secure foundation for lift.			
14	Threshold beams	Light-beams detect presence of objects in threshold area.			
15	Serial number	Location of serial number decal.			
16	Top and bottom arms	(left and right) Upper and lower links connecting vertical arm to base assembly.			
17	Vertical arm	(left and right) Connects platform to top and bottom arms.			
18	Bridgeplate (inboard rollstop)	Plate bridges gap between platform and baseplate when platform is at floor level. Acts as barrier to prevent wheelchair from rolling off of the platform during "Up" and "Down" platform motions.			
19	Handrail	(left and right) Provides a handhold for standing passenger.			
20	Occupant restraint belt	Electrically interlocked safety belt that is intended to prevent acceleration of wheelchair from platform. Lift will not operate unless belt is properly connected.			
21	Front rollstop	Front barrier prevents the wheelchair from inadvertently rolling off of the platform during lift operation.			
22	Platform	Component of lift where the wheelchair and occupant are situated during "Up" and "Down" lift motions.			
23	Platform light	(left and right) Directs light onto platform surface.			
24	Control pendant	Hand-held device controls platform motions.			
END OF TABLE					

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### II. INSTALLATION

his chapter contains instructions for installing the RICON S-Series<sup>®</sup> Public Use wheelchair lift into most vans and busses, although custom installations are also possible in other types of vehicles. Due to the wide range of applications for lift, specific information for every possible application is not available. The following general procedures will apply to most installations. Contact Ricon Product Support for instruction concerning installations not covered. To install lift, refer to following sections and perform procedures carefully and in the order that they are presented. Be certain that installation instructions are followed exactly and do not eliminate any steps or modify product.

**NOTE:** Please review carefully the installation instructions (32ii352e) that are supplied with this lift before beginning the following procedures. Where these procedures conflict, the installation instructions take precedence.

### A. GENERAL MECHANICAL INSTALLATION

### 1. LIFT LOCATION

The installation surface must be flat and level. It is recommended that lift be installed on a ½", minimum, high-grade plywood sub-floor. However, this additional installation height may not be acceptable in cases where overhead clearance is limited.

Refer to Figure 2-1.

**NOTE:** Check for proper travel clearance through doorway.

- a. With doors fully open, place/position lift in vehicle doorway as close as possible to door, with lift's baseplate assembly parallel to side of vehicle.
- b. Allow a distance of 3/4", if possible, between door and the part of lift closest to it. Adjust lift left and right-side locations to accommodate subframe members.
- c. Verify proper clearance of door frame, passenger seats, and outer edge of vehicle floor and possible interference with wires, fluid lines, subframe members, etc.

### 2. VEHICLE STRUCTURAL REQUIREMENTS

The following figures and text provide installation guidelines for the RICON S-Series Public Use wheelchair lift into most vans and busses. Adherence to these requirements will verify that the lift installation conforms to the requirements of FMVSS 403 and 404.

### a. VEHICLE DOOR OPENING DIMENSIONAL REQUIREMENTS in inches and [millimeters].

MODEL	A (Width)	B (Height)	C (Floor-To-Ground)
S2003 *	38.5 [978]	55.0 [1397]	42.0 [1067]
S2005	41.0 [1041]	55.0 [1397]	42.0 [1067]
S2006	48.5 [1232]	55.0 [1397]	42.0 [1067]
S2010	43.0 [1092]	58.0 [1473]	42.0 [1067]
S5005	41.0 [1041]	58.0 [1473]	48.0 [1219]
S5503 *	38.5 [978]	58.0 [1473]	51.0 [1295]
S5505	41.5 [1054]	58.5 [1486]	51.0 [1295]
S5510	43.5 [1105]	58.5 [1486]	51.0 [1295]

<sup>\*</sup> Non-standard production item.

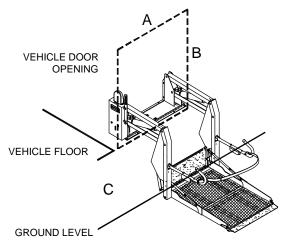


FIGURE 2-1: DOOR OPENING REQUIREMENTS

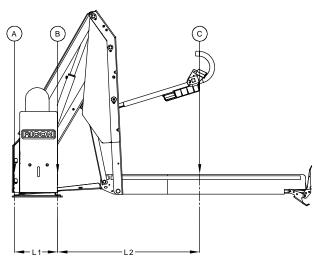
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### b. VEHICLE FLOOR STRENGTH REQUIREMENTS

Rated Load: 800 lbs	Standa	rd Load: 60	00 lbs	Standa	ard Load Test: 1800 lbs
MODEL	<u>L1</u>	L2	A *	B **	<u>C</u>
S2000 w/51" platform	11"	36.25	-5930	7730	1800
S2000 w/54" platform	11"	37.75	-6180	7980	1800
S5000 w/51" platform	11"	41.50"	-6790	8590	1800
S5000 w/54" platform	11"	43.00"	-7040	8840	1800

- \* Negative numbers in column A indicate a tensile load pulling floor upward at the rear base plate mounting holes.
- \*\* Positive numbers in column B indicate a compressive load pushing floor downward at the front base plate mounting holes.



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FIGURE 2-2: FLOOR STRENGTH REQUIREMENTS

### 3. LIFT INSTALLATION GUIDELINES

The lift mounting is a very important step. Improper mounting or fastening of baseplate can adversely affect lift performance. Although fastening details may vary from one vehicle to the next, these general principles apply:

- Be certain that all mounting bolts are properly installed and tightened. Bolts used to fasten baseplate assembly to vehicle floor must have a minimum strength rating of SAE Grade 5 and be torqued to 28 ft lbs, dry. Recognize that the most important bolts are those along the rear of lift, since these bolts retain the majority of the load.
- Refer to **Figures 2-3** and **2-7**. Improper torquing sequence of baseplate bolts may result in a warped or bowed baseplate, which can cause platform to move erratically.

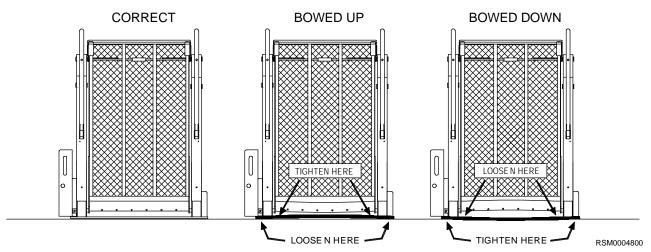


FIGURE 2-3: EXAMPLES OF BASEPLATE WARPAGE

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◆ Refer to Figure 2-4. On Ford van installations, clamping bars are used to help evenly distribute floor loading and should only be cut if needed to clear a subframe member. A subframe member must be used to support clamping bar.

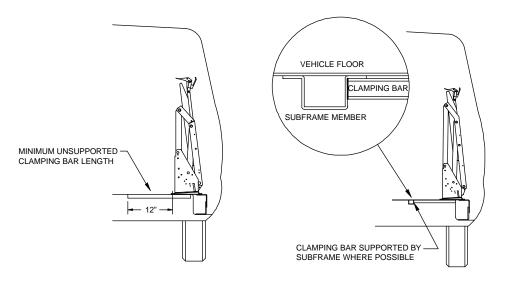


FIGURE 2-4: FORD VAN CLAMPING BAR ARRANGEMENT

### 4. LIFT INSTALLATION INTO VANS

This is a general procedure for installing Ricon lifts into Ford, Dodge, and Chevrolet full size vans.

a. Refer to **Figure 2-5**. Use four 1" x 3/8" bolts, 3/8" washers, 3/8" lock washers, and 3/8" hex nuts to assemble two bracket assembly kits.

NOTE: The top bracket must overlap bottom bracket, and both slots must face outward.

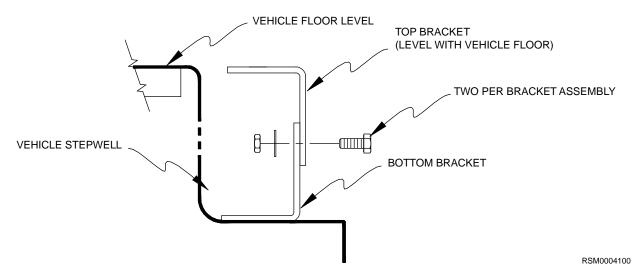


FIGURE 2-5: STEPWELL BRACKET

- b. Position brackets on stepwell and adjust height of both bracket assemblies so that top bracket is level with vehicle floor. Tighten bracket assembly bolts.
- c. Verify that lift is fully folded (stowed) with handrails folded tight against vertical arms. If necessary, use manual pump.

# **WARNING**

LIFT WEIGHT IS APPROXIMATELY 340 - 370 LBS. USE EXTREME CARE WHEN POSITIONING BECAUSE STEPWELL BRACKETS MAY TIP. THIS PROCEDURE MUST NOT BE ATTEMPTED BY ONE PERSON.

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d. Refer to **Figure 2-6**. With doors fully open, position lift in vehicle doorway so that back of lift is supported by vehicle floor, and front of lift is supported by both bracket assemblies.

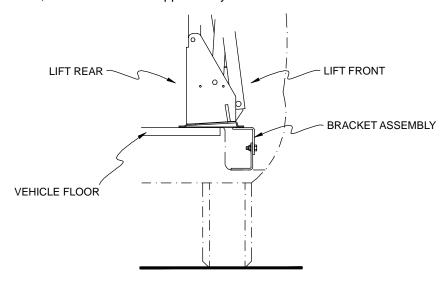


FIGURE 2-6: BRACKET ASSEMBLY

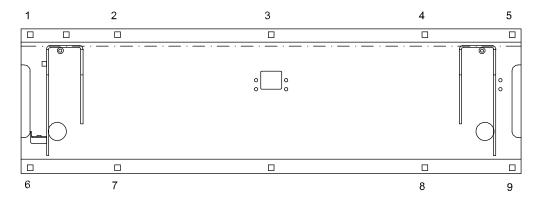
e. Fasten Baseplate to Floor:

**NOTE:** If Ricon power door operators are used, install them first. They may influence location of lift.

- Be certain baseplate is flush against vehicle floor. The baseplate may be slightly offset in door opening to provide proper clearance for passenger seats.
- Before drilling, verify that lift position does not interfere with closing of vehicle doors or operation of passenger seats.
- If this lift is being installed in a Dodge van with sliding doors, omit the bolts in baseplate holes 7 and 8.
- f. Mark and Drill Holes:



1) Refer to **Figure 2-7**. Mark and drill five 25/64" baseplate mounting holes (1, 2, 3, 4, and 5) through vehicle floor. (On Dodge and GM vans, you must drill through vehicle floor and subframe).



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### FIGURE 2-7: VAN BASEPLATE HOLES

- 2) Place five 8" x 3/8" carriage bolts (use 4" x 3/8" bolts on Ford vans) into holes to secure position.
- 3) Refer to **Figure 2-8** on the following page. Match and align top holes of stepwell brackets 6, 7, 8, and 9, with baseplate holes 6, 7, 8, and 9. Mark lower stepwell bracket holes 10, 11, 12, and 13 onto vehicle step.
- 4) Remove five carriage bolts installed in step 2). Carefully push lift into vehicle interior.
- 5) Drill 1/4" dia holes through marked locations 10, 11, 12, and 13.

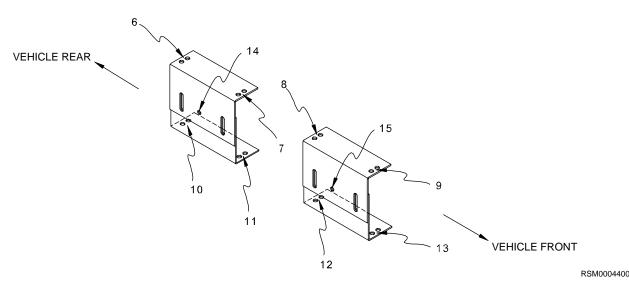


FIGURE 2-8: STEPWELL BRACKET HOLE LOCATIONS

g. Fasten Bracket Assemblies and Lift:

1) Use 1-1/2" x 5/16" sheet metal screws with 5/16" lock washers to secure lower brackets to vehicle step holes 10 through 13.

**NOTE:** If the screw in position 13 interferes with proper door operation, do not install.

- 2) Reposition lift and verify that surface beneath lift is free of obstacles.
- 3) Insert five 8" x 3/8" carriage bolts through mounting holes at rear of baseplate assembly, and insert four 1-1/2" x 3/8" carriage bolts through baseplate and bracket assemblies. Place 3/8" washers, lock washers, and nuts under bracket assemblies, and finger tighten nuts.

**NOTE:** On Dodge and GM vans, place five 4" x 4" plates, 3/8" washers, lock washers and hex nuts on 8" x 3/8" carriage bolts under van and finger tighten. On Ford models, reinforce vehicle floor with clamping bars. They are installed in positions 1, 2, 3, 4, and 5 and run across width of baseplate towards center of van.

- 4) Before tightening carriage bolts, verify that lift is level with vehicle floor. Adjust bracket assembly bolts if necessary.
- 5) Tilting lift towards inside of van may hinder its initial unfolding. Install lift with its baseplate assembly as level as possible. Tightening carriage bolts requires special care to keep baseplate assembly from warping when secured to vehicle floor. If baseplate assembly warps, the vertical arms will not be parallel. Make corrections by shimming at appropriate locations. To help prevent warping, tighten the ten carriage bolts (six on Dodge van with sliding door) to 28 ft. lbs. in the appropriate sequence:

**NOTE:** Vertical arms must be parallel for proper operation. Adjust bolts as required. Best results are obtained when lift is mounted on plywood. Shims, although best avoided, may be used if required.

6) Make certain that holes 14 and 15 on the front of each bracket assembly are drilled through, and 5/16" bolts are inserted to lock position of bracket assemblies.

### 5. LIFT INSTALLATION INTO BUSES

Refer to **Figure 2-9**. Clamping bars are used on most bus installations to help distribute floor loading, and should only be cut if needed to clear a subframe member. A subframe member should be used to support clamping bar.

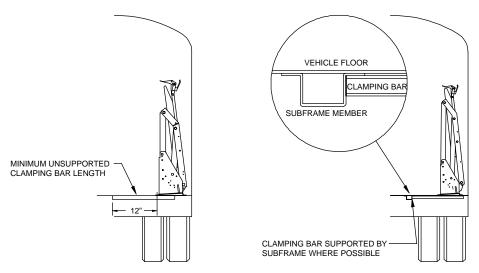


FIGURE 2-9: BUS CLAMPING BAR ARRANGEMENT

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# **№** WARNING

LIFT WEIGHT IS APPROXIMATELY 340-370 LBS. TAKE EXTREME CARE WHEN POSITIONING BECAUSE STEPWELL BRACKETS MAY TIP. THIS PROCEDURE MUST NOT BE ATTEMPTED BY ONE PERSON.

- a. Open doors fully and position lift so that it is centered in vehicle doorway. Close doors and move lift outward until it clears doors by a minimum of ½". The baseplate must be parallel to side of bus. Open manual pump release valve (CCW) and allow folded platform to fully settle against latch on baseplate. Verify that interference is not present between lift and doors. Reposition lift, if necessary. Close pump release valve; do not overtighten valve.
- b. Refer to Figure 2-10. Mark and drill ten 25/64" baseplate mounting holes (1 thru 10) through vehicle floor.

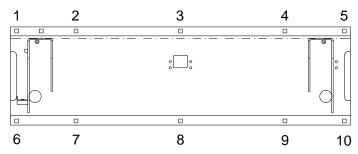


FIGURE 2-10: BUS BASEPLATE HOLES

CAUTION

Before drilling holes, verify that underlying wires and tubing will not be damaged.

- c. Fasten Lift:
  - 1) Insert ten 4" x 3/8" carriage bolts through baseplate and vehicle floor.
  - 2) Refer to **Figure 2-9**. Install five clamping bars on bolts underneath vehicle floor (across baseplate), i.e., from 1 to 6, 2 to 7, etc, and secure lift to vehicle floor with 3/8" washers, lock washers and hex-nuts.
  - 3) Use care when tightening carriage screws to prevent baseplate warpage. If baseplate assembly warps, vertical arms will not be parallel. Make corrections by shimming at appropriate locations. To help prevent warping, tighten the ten carriage bolts to 28 ft. lbs. in the following sequence:

3, 8, 1, 2, 4, 5, 6, 7, 9, 10

**NOTE:** Vertical arms must be parallel for proper operation. Adjust bolts as required. Best results are obtained when lift is mounted on plywood. Shims, although best avoided, may be used if required.



### B. ELECTRICAL INSTALLATION

# **CAUTION**

- Do not route any wire while it is connected to the battery.
- Route wires clear of moving parts, brake lines, and the exhaust system. Secure to the vehicle.
- When routing an electrical wire through vehicle floor or walls, use a grommet to protect wires from chafing.
- Check underside of vehicle before drilling to avoid damage to fuel lines, vent lines, brake lines, or wiring.

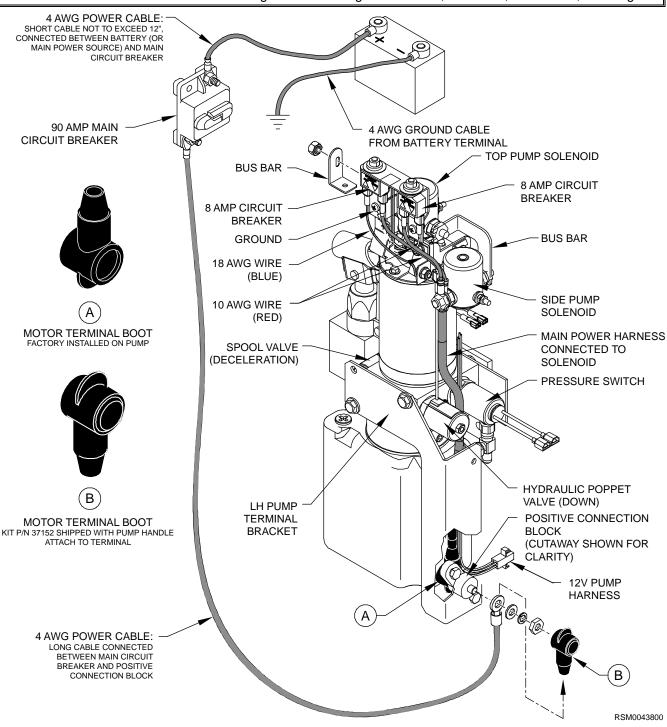


FIGURE 2-11: ELECTRICAL INSTALLATION DIAGRAM

# **↑** CAUTION

KIT P/N 37152 (SHIPPED WITH PUMP HANDLE) MUST BE INSTALLED ONTO RING TERMINAL BEFORE ATTACHING POWER CABLE TO A BATTERY OR POWER SOURCE.



### 1. INSTALL MAIN CIRCUIT BREAKER

- a. Disconnect battery.
- b. Mount main circuit breaker inside engine compartment within 12 inches of battery (to minimize length of unprotected cable). Avoid installing near a heat source.

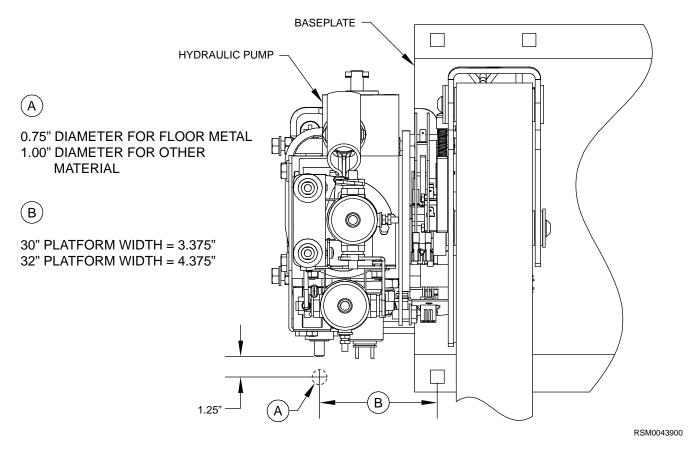
### 2. ROUTE AND CONNECT MAIN POWER CABLE

# **N** CAUTION

Check under-side of vehicle before drilling to avoid damage to fuel lines, vent lines, brake lines, or wiring.

**NOTE:** For applications where power cable is to pass through sheet metal, drill a 3/4" hole and use wire clamp provided. For applications where cable is to pass through plywood, drill a 1" hole and use black plastic grommet provided.

a. Refer to **Figures 2-11** and **2-12**. Drill a hole through vehicle floor near positive connection block so power cable can reach stud of positive connection block. Drill hole where the installed pump cover will cover it.



### FIGURE 2-12: POWER CABLE ACCESS HOLE

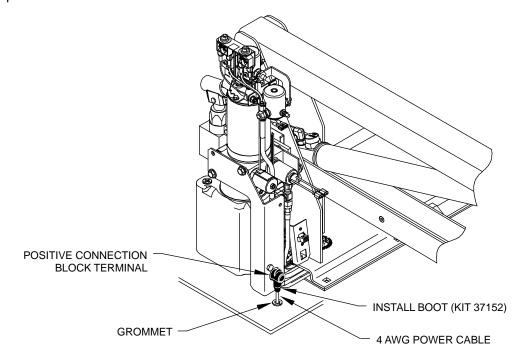
- b. Refer to **Figure 2-11**. Install supplied heavy ring terminals to each end of the short (12" long) 4 AWG power cable. Install one ring terminal, only, to one end of long power cable. Use an appropriate crimp tool (such as Ricon hammer tool, part of kit P/N 01243).
- c. Connect ring terminal end of long 4 AWG power cable to 90A main circuit breaker, then route power cable underneath vehicle floor and up through hole in floor.
- d. Refer to **Figure 2-11**. Detach Kit P/N 37152 (Shipped with pump handle) then install onto ring terminal connector before installing ring terminal onto positive connection block.
- e. Tie power cable to vehicle chassis, and to pump assembly harness using cable ties. Avoid pinch points, exhaust system, moving parts, and brake lines. Verify that power cable is secure.



Be sure that there is no interference with any parts that could damage power cable or other wires in any way.

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f. Refer to Figure 2-13. Cut excess wire from long cable, install heavy ring terminal, and then connect to positive connection block. Verify that red wire from main circuit breaker (if applicable) is securely connected to positive connection block.



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FIGURE 2-13: CABLE ROUTING

g. Connect 12" cable, with ring terminals, from positive battery terminal to main circuit breaker terminal.

### 3. CONNECT CONTROL PENDANT

a. Refer to **Figure 2-14**. Connect hand-held control pendant to six-pin connector at left side of baseplate and secure cable with bracket and supplied cable clamps.

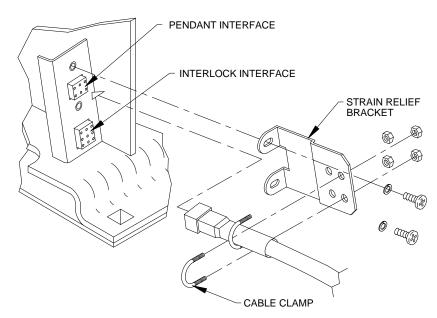
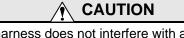


FIGURE 2-14: STRAIN RELIEF KIT

b. Install wall portion of dovetail clip (pendant storage) in an appropriate and safe location near lift.



Be sure that harness does not interfere with any moving parts, or binds against any parts, or is pinched in any way.

### 4. GROUND (COMMON) CONNECTIONS

### a. 12VDC Systems

12VDC powered lifts are chassis grounded and do not require a separate ground cable connection to battery. However, if the common side of the lift electrical system is connected to chassis with a cable, the cable must be attached in a manner that provides a reliable electrical connection. If ground cable is attached to an existing ground circuit, the circuit must be capable of conducting an additional 90 amps.

### b. 24VDC Systems

- Ricon recommends that a dedicated ground cable be used in 24VDC installations. A 4GA cable, or heavier, must be used.
- 2) Refer to **Figure 2-15**. The ground cable is connected from the negative stud (-) on pump motor to the negative battery terminal.

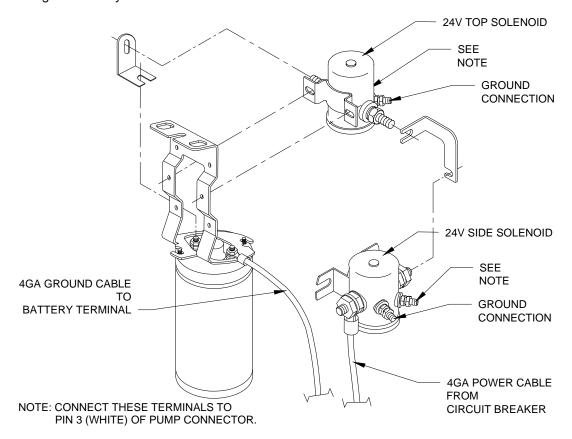


FIGURE 2-15: 24VDC DUAL SOLENOID WIRING

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### 5. INSTALLATION OF INTERLOCK DEVICE

The supplied interlock device must be installed to prevent operation of the lift or vehicle when it is unsafe to do so.

The S-Series lift provides an electrical interlock signal to the vehicle that prevents movement of the vehicle unless the platform is fully stowed. The interlock control also supplies power to the lift only when the vehicle parking brake is set and the transmission is in PARK.

**NOTE:** An 8-amp circuit breaker is located within the lift as a circuit protection device. The circuit interface used by the installer must be capable of carrying an additional 8 amps of continuous current.

Refer to **Figure 2-16**. The interlock installation kit provides a display panel for mounting on the vehicle dashboard. The figure shows an LED display panel. The Lift Power LED lights green when the vehicle transmission is in PARK and the parking brake is set. While the LED is green the lift is lowered and the platform can be deployed. The Not Stowed LED lights red when the platform is not fully stowed into the vehicle. While the LED is red the transmission cannot be shifted out of PARK.

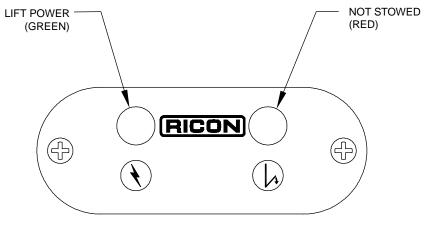


FIGURE 2-16: INTERLOCK DISPLAY PANEL

The installer must verify that none of the original equipment circuit breakers, fuses, or solenoids are bypassed, removed, or altered. Be sure that no wires are left frayed or hanging loose after installation of the interlock device. If you have any questions concerning the proper installation of this interlock device, please contact our Product Support department.

### C. FINAL ADJUSTMENTS

### 1. LIMIT SWITCH ADJUSTMENT

Refer to Figures 2-17, 2-18, and the following procedure.

NOTE: To avoid operational "dead-spots", adjust DEPLOY CUTOFF SWITCH before UP CUTOFF SWITCH.

**NOTE:** When loosening adjustment screws, apply enough pressure to screw to move block instead of screw. (The block might stick if insufficient pressure is applied to screw).

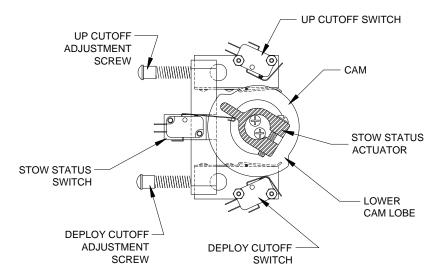


FIGURE 2-17: LIMIT SWITCH ADJUST DIAGRAM

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- a. Fully DEPLOY platform.
- b. Adjust UP CUTOFF ADJUSTMENT SCREW and DEPLOY CUTOFF ADJUSTMENT SCREW 6-8 turns **counterclockwise** and then push screws FORWARD.
- c. Cycle platform to STOW then DEPLOY.
- d. When in DEPLOY position, platform should stop at an angle and NOT even with vehicle floor. If not, turn DEPLOY CUTOFF ADJUSTMENT SCREW an additional 2-3 turns **counterclockwise**, push screw forward, STOW then DEPLOY platform, then repeat this step.
- e. Cycle platform to UP position.
- f. When in UP position, platform should stop short of vehicle floor level. If not, turn UP CUTOFF ADJUSTMENT SCREW an additional 2-3 turns **counterclockwise**, push screw forward, cycle platform DOWN then UP, then repeat this step.
- g. Cycle platform to STOW then DEPLOY.
- h. Push and hold control pendant DEPLOY switch. Slowly turn DEPLOY CUTOFF ADJUSTMENT SCREW clockwise until platform "jogs" down to vehicle floor level. Make sure that clearance between knuckle actuator saddle and parallel arm is 1/8" minimum (distance may be 1/2" maximum and unequal from left or right arm), stop turning screw and release DEPLOY switch.
- i. Position platform DOWN to ground level then UP until it stops.
- j. Push and hold control pendant UP switch. Slowly turn UP CUTOFF ADJUSTMENT SCREW **clockwise** until platform "jogs" up to vehicle floor level. Make sure that clearance between knuckle actuator saddle and parallel arm is 1/8" minimum (distance may be 1/2" maximum and unequal from left or right arm), stop turning screw and release UP switch.

**NOTE:** If lift does not operate after 1-2 full turns of adjustment screw, cycle platform UP and DOWN (The UP CUTOFF SWITCH is less sensitive than DEPLOY CUTOFF SWITCH).

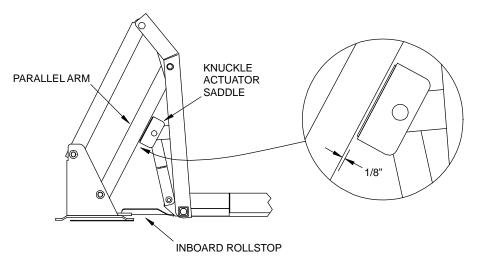


FIGURE 2-18: LIMIT SWITCH ADJUSTMENT CLEARANCE

k. Cycle platform through all functions (DEPLOY, DOWN, UP, and STOW) to verify correct adjustment. Refer to **Table 2-1** if necessary.

TABLE 2-1: LIMIT SWITCH ADJUSTMENT CHART					
COMPONENT	SYMPTOM	CORRECTIVE ACTION	ADJUSTMENT PROCEDURE		
Fold cutoff actuator	Lift does not fold tightly.	Rotate actuator counter-clockwise.	With lift fully folded (handrails should be folded tight against vertical arms), rotate actuator so that it barely trips fold cutoff switch.		
	Pump runs continuously.	Rotate actuator clockwise.	Test lift. Pump should cutoff when lift is folded tight.		

	TABLE 2-1: LIMIT SWITCH ADJUSTMENT CHART				
COMPONENT	SYMPTOM	CORRECTIVE ACTION	ADJUSTMENT PROCEDURE		
Up cutoff adjustment screw	Lift stops low.	Adjust screw clockwise.	Adjust up cutoff switch so that lift stops just before first knuckle actuator saddle or roller touches underside of lower parallel arm. (Saddle or roller should be about 1/8" from lower parallel arm.)		
	Lift stops high.	Adjust screw counter-clockwise.			
Deploy cutoff adjustment screw	Lift stops low.	Adjust screw counter-clockwise.	Adjust deploy limit switch so that lift stops just below "Up" cutoff described in above step. This will give the necessary overlap to avoid "dead" spots.		
	Lift stops high.	Adjust screw clockwise.			
END OF TABLE					

### 2. PLATFORM TILT ADJUSTMENT

Correct platform tilt adjustment is crucial for proper platform rollstop operation, but cannot be adjusted at factory. Factors such as vehicle floor height, lift tilt angle and stiffness of vehicle springs will vary installation geometry.

- a. Deploy and lower lift platform to a position halfway between vehicle floor level and ground level.
- b. Refer to **Figure 2-19**. Adjust left and right platform set screws until platform is level at zero (0) degrees. Turn setscrews clockwise to angle front-end of platform upward, or counter-clockwise to angle downward.
- **NOTE:** At ground level, the distance between heel of platform and ground should be 3/4" to 1". This distance should be measured at initial point of rollstop full deployment.
- **NOTE:** Adjust setscrews on both sides of platform simultaneously and evenly to ensure proper leveling of platform.

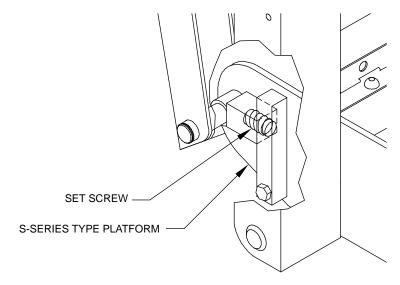


FIGURE 2-19: PLATFORM SET SCREWS

c. Repeat steps a and b as required to achieve proper rollstop operation.

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### 3. PLATFORM PRESSURE SWITCH CHECK AND ADJUSTMENT

Correct adjustment of this pressure switch will prevent platform from folding into vehicle when there is a load of 50 lbs, or more, on the platform.

a. Refer to Figure 2-20. Deploy and lower platform to ground.

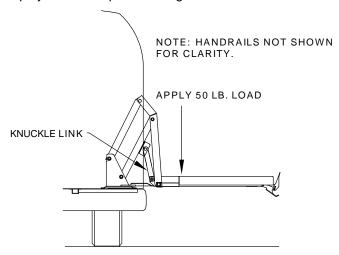


FIGURE 2-20: PRESSURE SWITCH TEST AT FLOOR LEVEL

NOTE: Weight must be 50 lbs. and placed 6 inches from rear edge of platform mesh as shown in Figure 2-21.

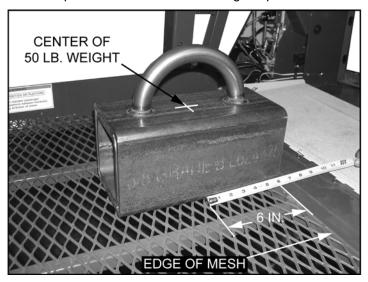


FIGURE 2-21: 50 LB. WEIGHT PLACEMENT ON PLATFORM

- b. Place a 6" x 6" x 12", 50 lb. load on the rear, center portion of platform then raise platform to floor level by pressing and holding the STOW switch.
- c. Refer to **Figure 2-22**. If an alternate weight is to be used, the center of the weight must be 6 inches from the rear edge of the platform mesh.

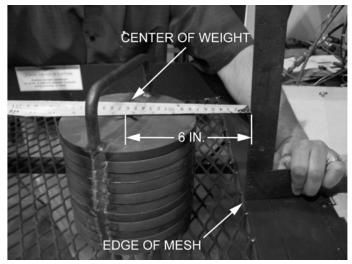
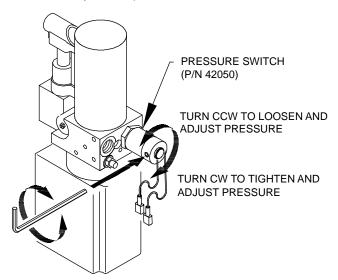


FIGURE 2-22: ALTERNATE 50 LB. WEIGHT

- d. The pressure switch is correctly set if pump motor shuts off when attempting to stow the lift, preventing inward movement of the platform.
- e. The pressure switch is not correctly set if pump motor does NOT shut off and there is inward movement of the platform. Adjustment of the pressure switch will be required.
- NOTE: If adjustment is necessary then pressure switch must be adjusted as shown in FIGURE 2-23.
  - f. Refer to **Figure 2-23**. Loosen the locking set screws from the hydraulic pressure switch, using a 5/64" hex wrench to allow adjustment of the hydraulic pressure switch.



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FIGURE 2-23: PRESSURE SWITCH ADJUSTMENT (P/N 42050)

- g. Turn the hydraulic pressure switch enclosure 1/8 of a turn **counterclockwise** (CCW), by hand to reduce the pressure.
- **NOTE:** Turn the hydraulic pressure switch enclosure **clockwise** (CW) to increase pressure and **counterclockwise** (CCW) to decrease pressure, by hand.
  - h. Stow platform and observe if the motor shuts off.
  - i. If the motor does not shut off, turn the hydraulic pressure switch enclosure 1/8 of a turn **counterclockwise** (CCW), by hand to reduce the pressure.
- **NOTE:** The lift should NOT stow or have inward movement with the weight on the platform.
  - j. Repeat pressure switch adjustment as necessary to achieve correct setting.
  - k. Tighten the locking set screw when the correct pressure setting is achieved.

### D. VERIFY INSTALLATION

- Be certain that no vehicle components interfere with operation of lift.
- The lift is designed to carry the weight of a wheelchair and its passenger. The vehicle structure must be capable of supporting all loads produced during lift operation as well as those forces caused by motion of vehicle when it is driven.

# **♠** CAUTION

- Do not operate lift when test weight is on platform. This load test is designed to test the lift mounting method, not the lift capacity. Remove test weight immediately after check.
- Vehicle suspension will compress and vehicle will lean when test weight is placed on platform. If weighted platform contacts ground, remove weight, raise platform, and retest.
- Ricon recommends that the lift be test loaded at its rated 800 pound load capacity to verify integrity of installation. Position lift platform 2" - 6" above the ground, place 800 pounds in center of platform, and inspect lift mounting brackets and hardware. REMOVE TEST WEIGHT.
- ` Run lift through several complete cycles while checking for proper operation.
- ` Refer to Figure 2-24 on next page and verify that all decals are properly located and affixed as shown.

**NOTE:** The installing dealer affixes the Operating Instructions decal to vehicle in a location clearly visible to the lift operator.

### E. SAFETY CHECKLIST FOR VEHICLE MANUFACTURER

This checklist is intended to verify safe operation of Ricon FMVSS 403 and 404 compliant wheelchair lifts. All requirements must be met for the wheelchair lift to be considered compliant.

COMPLIANT	NON- COMPLIANT	REQUIREMENT
		Wheelchair lift and vehicle properly interlocked (lift cannot be powered unless vehicle interlocks are activated, and interlocks cannot be disengaged unless lift is fully stowed).
		Threshold warning device functioning properly (audible warning and visual warning is activated if threshold area is entered when platform is at least one inch below vehicle floor level).
		Main power switch enables and disables the lift control system.
		Control pendant illuminated when the lift is powered and pendant power turned on.
		Inboard rollstop does not rise from floor level with 25 pounds, or more, at center of barrier.
		Platform unable to rise more than 3" above ground if safety belt is not engaged.
		Platform lighting functional when lift is powered.
		Platform does not stow if a weight of 50 pounds, or more, is present on platform.
		Manual back-up operation fully functional (see operator manual for directions).

### F. CUSTOMER ORIENTATION

### **IMPORTANT**

- Customer Orientation -

Ricon Sales or Service personnel must review the warranty card and Operator manual with the customer to be certain they understand how to safely operate the lift. The customer should be instructed to follow the operating instructions without exception.

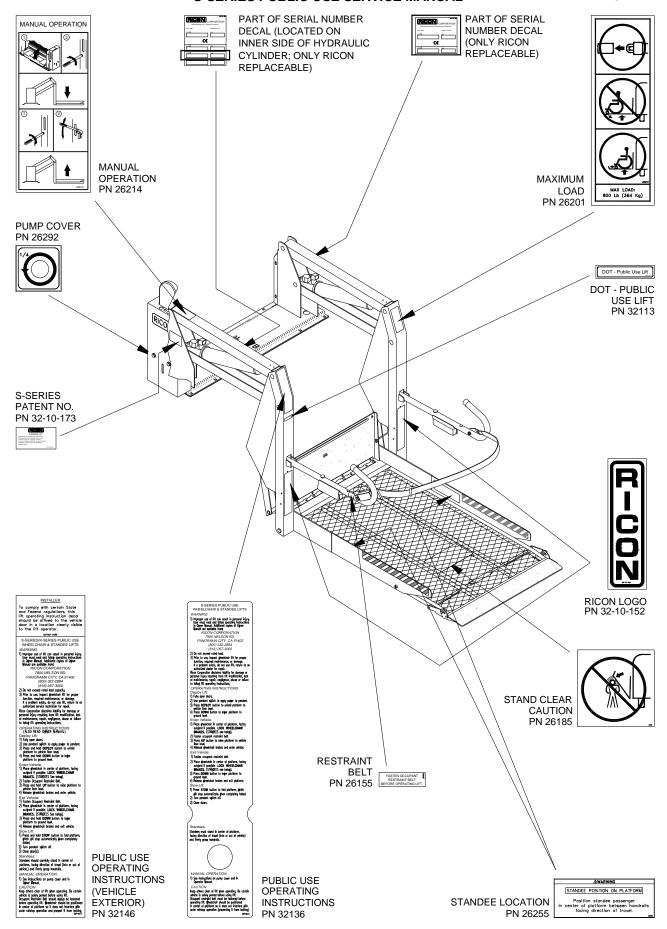


FIGURE 2-24: PUBLIC LIFT DECAL LOCATIONS AND PART NUMBERS

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# III. S-SERIES® PUBLIC USE MAINTENANCE AND REPAIR

egular maintenance of the RICON S-Series<sup>®</sup> Public Use wheelchair lift will help optimize its performance and reduce the need for repairs. This chapter contains cleaning and lubrication instructions, maintenance schedule, troubleshooting section, and maintenance diagrams.

# **♠** CAUTION

This Ricon product is highly specialized. Maintenance and repairs must be performed by a Ricon dealer or qualified service technician using Ricon replacement parts. Modifying or failing to properly maintain this product will void warranty and may result in unsafe operating conditions.

### A. LUBRICATION

# ♠ CAUTION

Do not lubricate motor or other electrical components. Lubrication of electrical components may create unintentional short circuits.

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

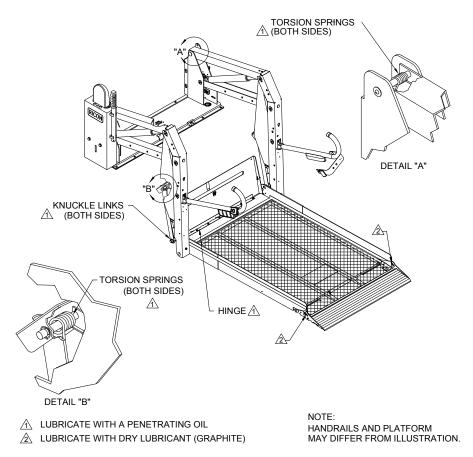


FIGURE 3-1: LIFT LUBRICATION POINTS

### B. CLEANING

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

### C. 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 service intervals referenced in **Table 3-1**. Service should be increased under conditions of heavier use (more than 10 cycles per day).

	TABLE 3-1: MAINTENANCE SCHEDULE					
SERVICE POINT	SERVICE POINT ACTION TO PERFORM					
	10 CYCLES					
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 connector is tight.					
Threshold warning system	Verify that system properly detects objects in threshold area and actuates the audible alarm.					
Bridgeplate load sensor	Verify that sensor inhibits downward movement of platform when a weight is present on lowered bridgeplate.					
	150 CYCLES					
Electrical wiring	Inspect electrical wiring for frayed wires, loose connectors, etc.					
Vehicle interlock	Place vehicle in non-interlock mode and verify that lift does not operate.					
Decals	Verify that lift decals are properly affixed, clearly visible, and legible. Replace, if necessary.					
Armrests	Verify that armrest fasteners are properly tightened.					
Lift mounting points	<ul> <li>Verify that vehicle mounting and support points are undamaged.</li> </ul>					
	<ul> <li>Verify that mounting bolts are sufficiently tight and free of corrosion.</li> </ul>					
Main lifting pivots	Verify that link pins on arms 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	Verify that bridgeplate operates without binding during lift functions.					
	<ul> <li>Verify that bridgeplate deploys fully when platform stops at floor level.</li> </ul>					
	<ul> <li>Verify bridgeplate rests flat against baseplate.</li> </ul>					
Front rollstop	<ul> <li>Verify that rollstop is opened completely when platform is at ground level.</li> </ul>					
<ul> <li>Verify that rollstop closes and locks when platform leaves ground.</li> </ul>						
Hydraulic power unit						
	Check and add fluid when platform is at ground level. Fluid that is added when platform is raised will overflow when platform is lowered.					
	<ul> <li>Verify that pump hydraulic fluid level is at FULL mark when platform is at ground level.</li> <li>Add Texaco 01554 Aircraft Hydraulic Oil or equivalent U.S. mil spec H5606G fluid.</li> </ul>					
	Verify there are no hydraulic fluid leaks.					
	<ul> <li>Verify that manual backup pump operates properly.</li> </ul>					
	1800 CYCLES					
Cleaning and lubrication	Clean lift with mild soap and water and wipe dry. Prevent rust by coating all surfaces with a light weight oil. Remove excess oil.					
	2. Spray penetrating oil (Curtisol® Red Grease 88167 or WD-40®) where specified following directions on container. Remove excess grease from surrounding areas.					
	<u>^</u> CAUTION					
A Ricor	n dealer or qualified service technician must perform the following safety check.					
	3600 CYCLES					
Hydraulic cylinder,	Check hydraulic cylinder for evidence of leaks.					
hoses and fittings	<ul> <li>Inspect hydraulic hoses for damage.</li> </ul>					
	<ul> <li>Verify that all fittings are tight.</li> </ul>					
	END OF TABLE					

### D. TROUBLESHOOTING

The troubleshooting guides are designed to provide logical starting points to locate general problems that could occur with lift. However, not all possible problems or combinations of problems are listed. For troubleshooting lift, refer to **Tables 3-2** and **3-3**. The guides do not incorporate routine safety precautions or preliminary procedures and assume that vehicle battery is fully charged and battery terminals/connectors are clean and tight.

# **№** WARNING

THE TROUBLESHOOTING GUIDES DO NOT INCORPORATE ROUTINE SAFETY PRECAUTIONS OR PRELIMINARY PROCEDURES. DURING THE RICON WARRANTY PERIOD A TRAINED, RICON DEALER OR QUALIFIED SERVICE TECHNICIAN MUST PERFORM TROUBLESHOOTING. AFTER THE WARRANTY PERIOD, IT IS RECOMMENDED THAT TROUBLESHOOTING BE CONTINUED BY A RICON DEALER OR QUALIFIED SERVICE TECHNICIAN.

### 1. LIFT TROUBLESHOOTING

TABLE 3-2: TROUBLESHOOTING LIFT OPERATION							
SYMPTOM		POSSIBLE CAUSE	REMEDY				
Hydraulic fluid leaks		Loose hydraulic fitting.	Make sure fitting is PROPERLY tightened.				
		Hydraulic component defective.	Discontinue use of lift. Have repairs made by a Ricon dealer or qualified service technician.				
Rollstop does not open		Obstruction of rollstop release latch.	Raise lift and remove obstruction.				
Lift functions	Abnormal Operation.	Obstruction in lifting frame.	Remove obstruction and check for any damage				
		Backup pump manual release valve OPEN.	Turn manual release valve CLOCKWISE until slightly snug.				
		Hydraulic fluid may be low.	While platform is at GROUND LEVEL, be certain that pump hydraulic fluid level is maintained at required FULL level. Add only Texaco 01554 Aircraft Hydraulic Oil or equivalent U.S. mil spec H5606G fluid.				
		Air may be trapped in hydraulic system.	Purge hydraulic system by operating lift through its maximum range of travel for at least four complete cycles. (For vehicles that do not use full travel of lift, the maximum range of travel is accomplished by raising vehicle on a service hoist or ramp.)				
	No Operation.	Control system circuit breaker tripped.	Reset circuit breaker.				
		Backup pump manual release valve OPEN.	Turn manual release valve CLOCKWISE until slightly snug.				
		Hydraulic hose or fitting leak.	Contact a Ricon dealer for repair.				
		Hydraulic fluid may be low.	While platform is at GROUND LEVEL, be certain that pump hydraulic fluid level is maintained at required FULL level. Add only Texaco 01554 Aircraft Hydraulic Oil or equivalent U.S. mil spec H5606G fluid.				
		Air can be trapped in hydraulic system.	Purge hydraulic system by operating lift through its maximum range of travel for at least four complete cycles. (For vehicles that do not use full travel of lift, the maximum range of travel is accomplished by raising vehicle on a service hoist or ramp.)				
	END OF TABLE						

### 2. PUMP SOLENOID LED STATUS INDICATOR

Refer to **Figure 3-2**. Two identical solenoids provide a margin of safety in the event that one of the solenoids fails with its contacts closed. A two-color status indicator LED is located between the 8A circuit breakers to monitor the condition of the two solenoids. The LED is normally off when the pump is not operating and becomes green when the pump operates. When the pump is not operating and the top solenoid has failed the LED will be red. The LED will be green when the side solenoid has failed.

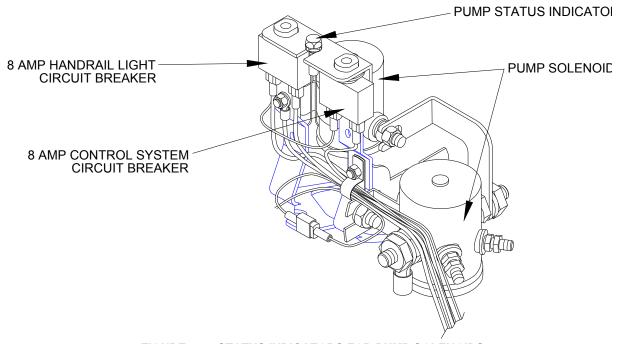


FIGURE 3-2: STATUS INDICATORS FOR PUMP SOLENOIDS

### 3. BRIDGEPLATE CABLE ASSEMBLY REPLACEMENT

The following steps provide instructions for replacing the bridgeplate (also known as inner rollstop or IRS) cable assembly. Refer to **Figure 3-3** on following page. Please follow these instructions carefully. Call Ricon Product Support if you need assistance.

- a. Study the routing of the cable before removing it.
- b.a. Deploy the lift platform to vehicle floor level. Be certain that bridgeplate is resting against baseplate assembly.
- e.b. Remove pinch point shields from the left and right vertical arm assemblies.
- d.c. Assemble and secure one end of an IRS cable to the IRS pulley mount block (#1; located inside the left vertical arm assembly) using a hex screw, bushing, and washer.
- e.d. Route the cable around the IRS pulley mount block bushing (#2). Verify that cable is routed between the bushing tab and the point where the cable makes contact with the bushing. Install washer and hex nut over bushing and cable assembly.
- f.e. Continue to route the cable around grooved bearings #3, #4, and #5.
- e.f. Route the cable down the length of the vertical arm assembly and around grooved bearing #6.
- h.g. Assemble and secure the end of the IRS cable to the left side of the bridgeplate (#7) using a hex screw, washer, bushing, and he nut. Be sure to install a hex nut on the inside of the inner rollstop.
- i.h. Repeat for right side.
- ⊬i. Reinstall pinch point shields removed in step 2.

### 4. S-SERIES LIMIT SWITCH STATES

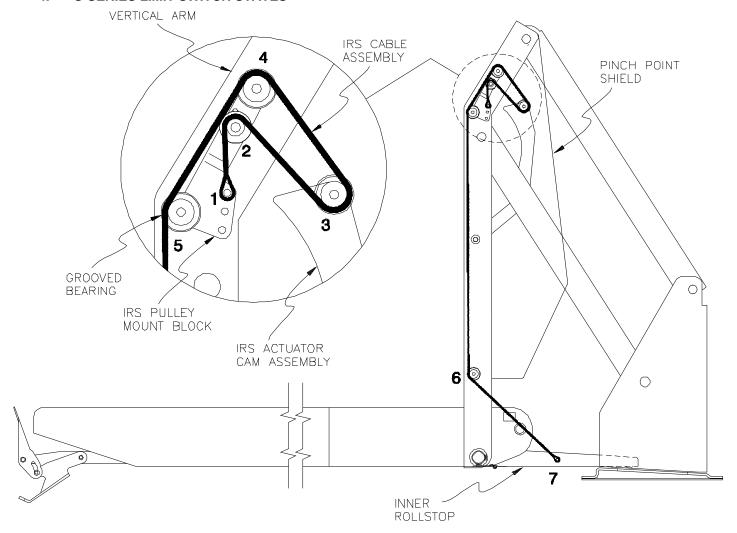
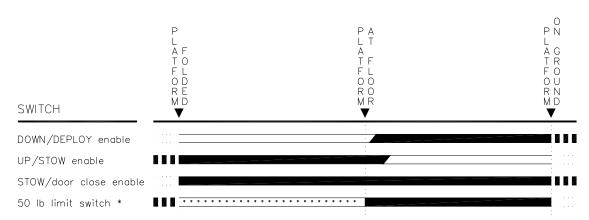


FIGURE 3-3: BRIDGEPLATE CABLE ROUTING



st 50 lb limit switch actuates when weight on platform exceeds 50 lbs during IN platform motion.

FIGURE 3-4: LIMIT SWITCH ACTUATION CHART

### E. HYDRAULIC CIRCUIT DIAGRAM

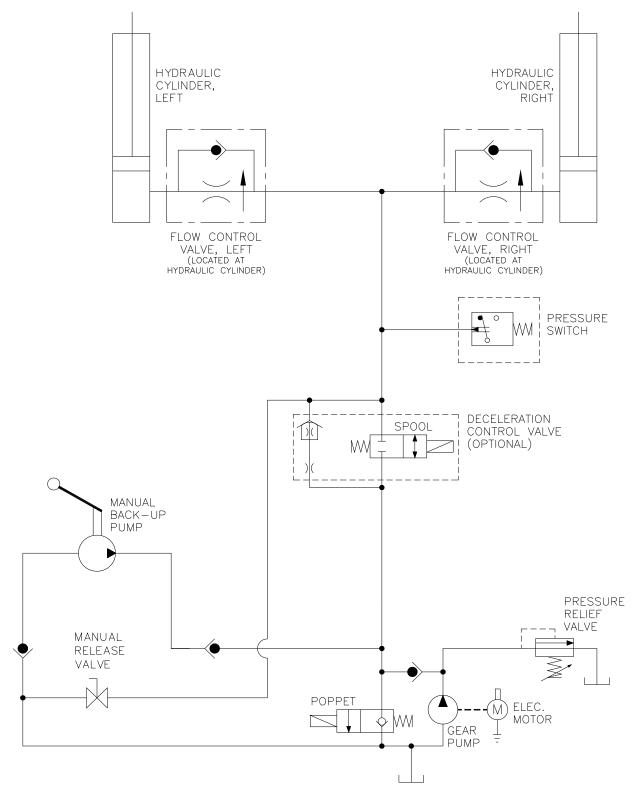


FIGURE 3-5: S-SERIES HYDRAULIC CIRCUIT

### F. ELECTRICAL WIRING DIAGRAM

### 1. DIAGRAM LEGEND

### a. Wire Color Codes

TABLE 3-4: WIRE COLOR CODES					
LETTER	COLOR	LETTER	COLOR		
ВК	Black	R	Red		
BL	Blue	VI	Violet		
BR	Brown	GY	Gray		
GN	Green	W	White		
0	Orange	Y	Yellow		
END OF TABLE					

# b. Electrical Connector Description

Refer to **Figure 3-6**. The standard electrical connectors used by Ricon are Molex .062" Series. These connectors have terminal numbers molded onto the back. Use these numbers and colors to identify all wires.

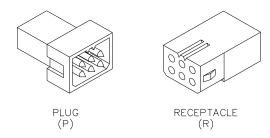


FIGURE 3-6: MOLEX CONNECTORS

### c. Diagram Labels

12V	12 Volts — Circuit current rating is also given
DC	Door Close — Direct command
DO	Door Open — Direct command
DOE	Door open Enable — From Door Open cutoff switch
DWN	Pump Down — Used by OUT and DWN
DWNA	Down Attempt — Must be enabled
FAST	Signal to speedup valve for UP and DOWN
GND	GROUND
OUTA	Out Attempt — Out must be enabled
SDA	System Deploy Attempt — DO followed by OUT
SSA	System Store Attempt — IN followed by DC
UP	Pump Up — Used by UP and IN
UPA	Up Attempt — Up must be enabled

## d. Electrical Symbols

**Figure 3-7** shows standard symbols used in the electrical wiring diagram.

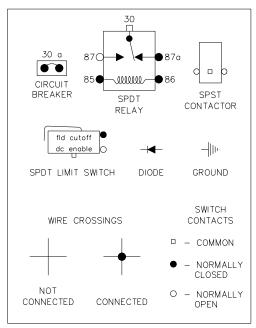


FIGURE 3-7: DIAGRAM SYMBOLS

## e. WIRING DIAGRAM

Refer to Figures 3-8 and 3-9 on the following two pages for the S-series public use wiring diagram.

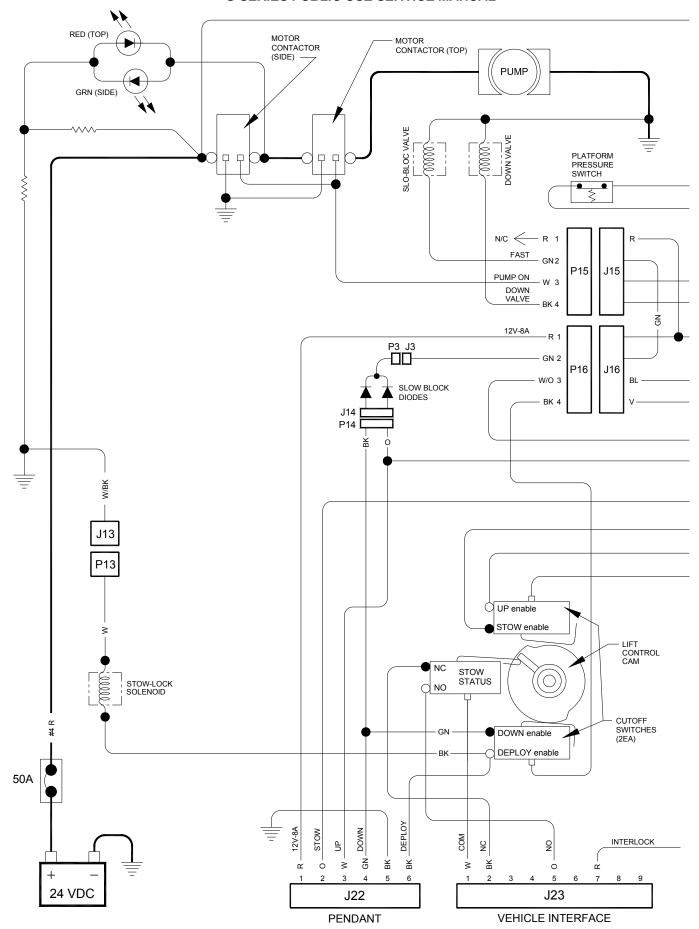


FIGURE 3-8: S-SERIES PUBLIC USE WIRING DIAGRAM - SHEET 1

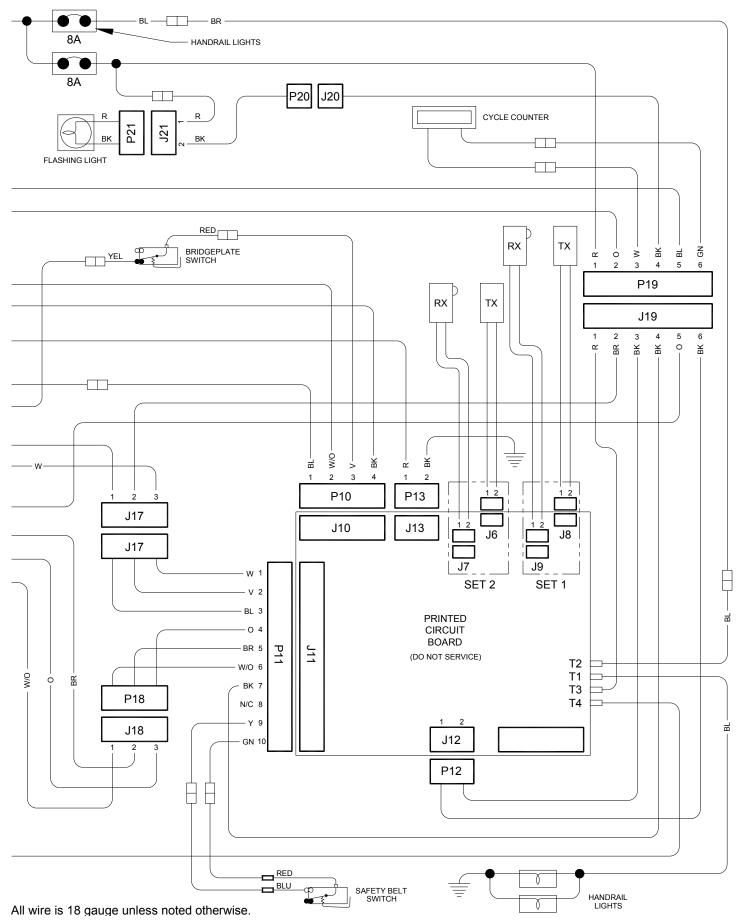


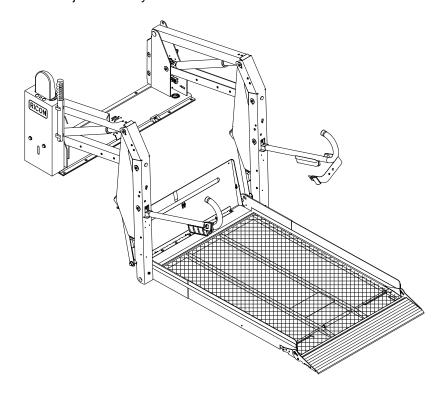
FIGURE 3-9: S-SERIES PUBLIC USE WIRING DIAGRAM - SHEET 2

## IV. S-SERIES® PUBLIC USE SPARE PARTS

FEBRUARY 2014 -

his chapter contains spare parts diagrams and lists for the RICON S-Series<sup>®</sup> Public Use wheelchair lift. The exploded view of each major lift assembly shows individual components referenced by numbers. On each associated list are the reference numbers, part descriptions, quantities used, and Ricon part numbers.

NOTE: To order a part, locate the part or assembly on an exploded view, note its reference number, find this number on the associated parts list (following page), and order the part number in the far right column. Most kits contain a single part (plus hardware). Therefore, you may need to order more than one kit if the part is used more than once on a major assembly.



<b>PARTS DIAG</b>	RAM	PAGE
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FIGURE 4-4:	PUBLIC USE ELECTRICAL SYSTEM	4-10
FIGURE 4-5:	PUBLIC USE PENDANT	4-12
FIGURE 4-6:	PUBLIC USE PLATFORM	4-14
FIGURE 4-7:	PUBLIC USE TRAVELING FRAME	4-18
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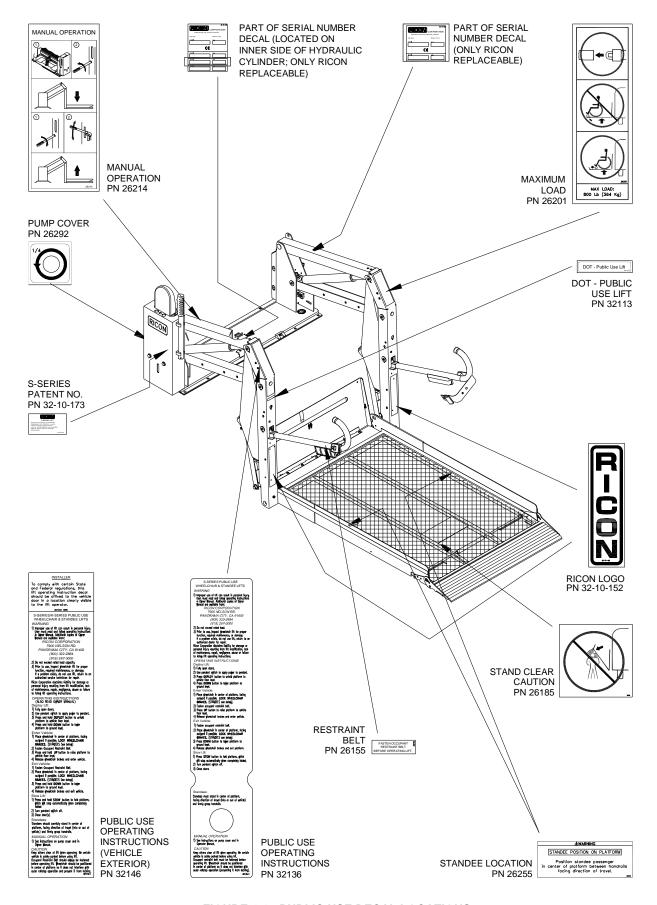


FIGURE 4-1: PUBLIC USE DECAL LOCATIONS



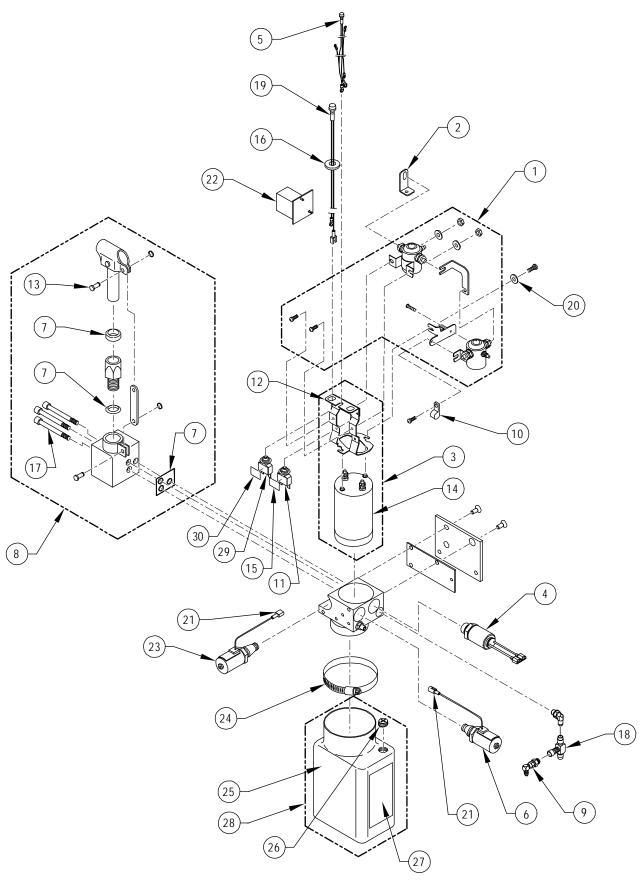


FIGURE 4-2: PUBLIC USE PUMP ASSY

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FIGURE 4-2: PUBLIC USE PUMP ASSY					
FIG.	DESCRIPTION	QTY	CONFIG.	PART NO.	
1	KIT, SOLENOID, 12V, SPST	2		29297	
2	BUS BAR, ISKRA MOTOR	1		10807	
3	KIT, MOTOR ASSY, W/BRACKET, 12V	1		14345	
4	KIT, PRESSURE SWITCH, WITH INSTRUCTIONS	1		42050	
5 *	LIGHT ASSY, INDICATOR, 12V (SUPERSEDED) SEE 5A	1		19067	
5A	PCB, PUMP LED ASSY, 12V	1		45561	
6	KIT, SPOOL VALVE, WITH DECELERATION, 12V	1		01176	
6A *	KIT, SPOOL VALVE, WITH DECELERATION, 24V	1		01177	
7	KIT, SEAL, PUMP, MANUAL BACK-UP	1		V2-SH-220	
8	BACK-UP PUMP, MANUAL	1		V2-SH-210	
9	FITTING ASSY, SNL, 1/4J X 1/4J, STEEL	1		VS-SH-06	
10	CABLE CLAMP, 3/16", NYLON (BAG OF 10)	1		19798	
11	CIRCUIT BREAKER KIT, 8 AMP, W/HDWR & DECAL	1		V2-SH-005	
12	BRACKET, SOLENOID	1		10507	
13	PIN & RETAINING RING	2		V2-SH-017	
14	MOTOR ASSY, 12V, 3", ISKRA	1		14332	
15	DECAL, 8 AMP CIRCUIT BREAKER	1		18797	
16	ADAPTER, .625 D-HOLE TO .484 ROUND	1		V2-ES-059	
17	SCREW, SHC, 1/4-20 X 2.25L (BAG OF 10)	3		32407	
18	FITTING, SRT, 1/4J, STEEL	1		V2-SH-012	
19	LIGHT, LIFT ARMED INDICATOR, 12V, GREEN	1		UL-ES-034	
19A *	LIGHT, LIFT ARMED INDICATOR, 24V, GREEN	1		V2-ES-016	
20	WASHER, FLAT, .406X.812X.065 (BAG OF 10)	1		17510	
21	TERM, SPL, M22-18 FULLINS, (BAG OF 10)	1		29388	
22	COUNTER ASSY	1		33048	
23	HYDRAULIC POPPET VALVE ASSY (DOWN VALVE), 12V	1		V2-SH-105	
23A *	HYDRAULIC POPPET VALVE ASSY (DOWN VALVE), 24V	1		V2-SH-136	
24	HOSE CLAMP	1		V2-SH-109	
25	RESERVOIR, PUMP, PLASTIC	1		V2-SH-108	
26	PLUG, RESERVOIR, BREATHER	1		V2-SH-106	
27	DECAL,OIL LEVEL WARNING	1		32-10-154	
28	RESERVOIR, PUMP, PLASTIC W/DECAL & PLUG	1		30938	
29	CIRCUIT BREAKER, 30AMP, WHITE	1		26510	
30	DECAL, 30 AMP BREAKER, HYDRAULIC, PUMP ASSY	1		44270	

 $\textbf{NOTE} \hbox{: } (\mathsf{REF}) \hbox{ in QTY column is for Referenced Parts Only and are not sold as spare parts}.$ 

NOTE: \* Item or configuration not shown.

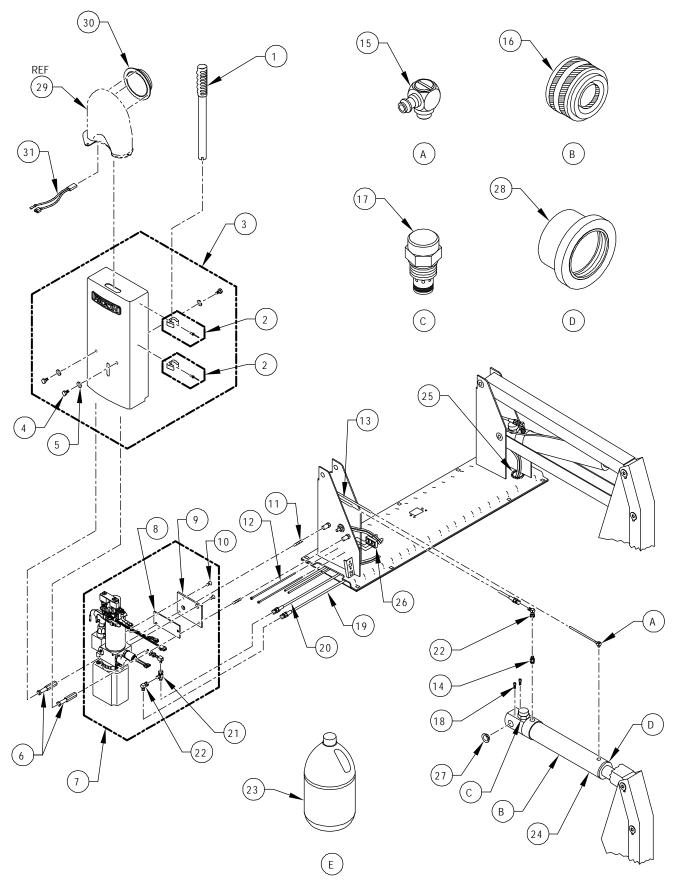


FIGURE 4-3: PUBLIC USE HYDRAULIC SYSTEM

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	FIGURE 4-3: PUBLIC USE HYDRAULIC SYSTEM					
FIG.	DESCRIPTION	QTY	CONFIG.	PART NO.		
1	HANDLE, MANUAL BACKUP PUMP	1		V2-SH-111		
2	KIT, TOOL CLIP, W/HARDWARE	2		19557		
3	COVER, ASSY, PUMP, LH	1		V2-CV-220		
3A *	COVER, ASSY, PUMP, RH	1		V2-CV-221		
4	SCREW, HEX, 5/16-18 X 5/8" GR 5 (BAG OF 10)	3		14495		
5	WASHER, FLT, .344 X .688 X .065 (BAG OF 10)	3		13350		
6	HEX ROD, PUMP STANDOFF	2		V2-CV-015		
7 **	PUMP ASSY, W/O INTERLOCK, STD, DECEL VALVE, 12V, LH	1		PM212200108		
7A **	PUMP ASSY, W/O INTERLOCK, STD, DECEL VALVE, 12V, RH	1		PM212200308		
7B **	PUMP ASSY, W/O INTERLOCK, RAISED SCK, 12V, RH	1		PM212100408		
7C **	PUMP ASSY, W/O INTERLOCK, RAISED, 12V, DECEL, LH	1		PM212100208		
8	PLATE, PUMP COVER MOUNT	1		V2-AC-71		
9	PLATE, PUMP MOUNT	1		V2-AC-70		
10	SCREW, FLAT HEAD, 5/16-18 X 3/4" (BAG OF 10)	2		14499		
11	STUD, THREADED, 5/16-18 X 1.75" (BAG OF 10)	2		14500		
12	CABLE TIE, 5.5", BLACK (BAG OF 10)	2		25697		
13	TUBE, POLYURETHANE, 6MM x 4MM, BLACK	9'		22-02-230		
14	ADAPTOR, #6 SAE MALE X #4 JIC MALE	2		26591		
15	FITTING, "L", MALE 10-32 X 1/4", BARB	2		V2-SH-16		
16 *	KIT, CYL REPAIR (W/SEALS) (SUPERSEDED BY 21829)	2		V2-SH-56		
16A	KIT, CYL REPAIR (PISTON/GLAND ASSY)	2		21829		
17	KIT, FLOW CONTROL, FIXED RATE .50 GPM (KIT OF 2)	1		30968		
18	SCREW, HEX RECESS HEAD, 1/4-20 X 1 (BAG OF 10)	4		14491		
19	HOSE ASSY, HYDRAULIC, 61" X 1/4 JIC X 1/4 JIC	1		V2-SH-009		
19A *	HOSE ASSY, HYDRAULIC, 64" X 1/4 JIC X 1/4 JIC	1		16601		
20	HOSE ASSY, HYDRAULIC, 26" X 1/4 JIC X 1/4 JIC	1		V2-SH-008		
21	FITTING, RUN TEE, 1/4 JIC M-M-F	1		V2-SH-012		
22	FITTING, "L", 1/4 JIC M-F SWIVEL	3		VS-SH-06		
23	OIL, HYDRAULIC, TEXACO #15, MEETS MIL-H-5606G	1	GAL	20-16-051		
24	CYLINDER ASSY 37", (BLACK)	2	S2000	VT-SH-105K		
24A *	CYLINDER ASSY 40", (BLACK)	2	S5000	V5-SH-105K		
24B *	CYLINDER ASSY 43", (BLACK)	2	S5500	30836K		
25	GROMMET, CATERPILLAR, 3/16" X 12"	1		26647		
26	SPACER, CABLE OR HOSE	2		25557		
27	KIT FLANGE BEARING, 3/4" ID (KIT OF 10)	4		19576		
28 *	GLAND NUT, 1.50", WITH SEAL (SUPERSEDED BY 21829)	2		13009		
28A	GLAND ASSY (FOR S/N ABOVE 236622) (SEE KIT 21829)	2		42305		

 $\textbf{NOTE:} \quad \text{$^*$} \qquad \text{Item or configuration not shown.}$ 

**NOTE**: \*\* Refer to Pump Assembly figure for parts breakdown.



FIGURE 4-3: PUBLIC USE HYDRAULIC SYSTEM CONT'D					
FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.	
29	COVER, LIGHT	1		31783	
30	LIGHT, BEACON	1		32440	
31	LIGHT ASSY, EXTENSION	1		33049	

**NOTE**: \* Item or configuration not shown.

**NOTE**: \*\* Refer to Pump Assembly figure for parts breakdown.

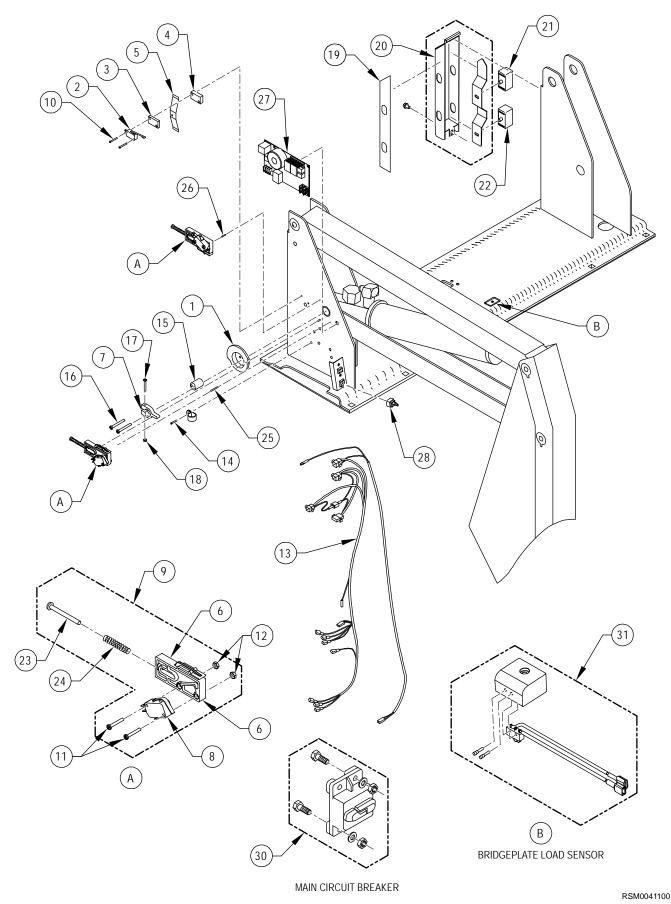


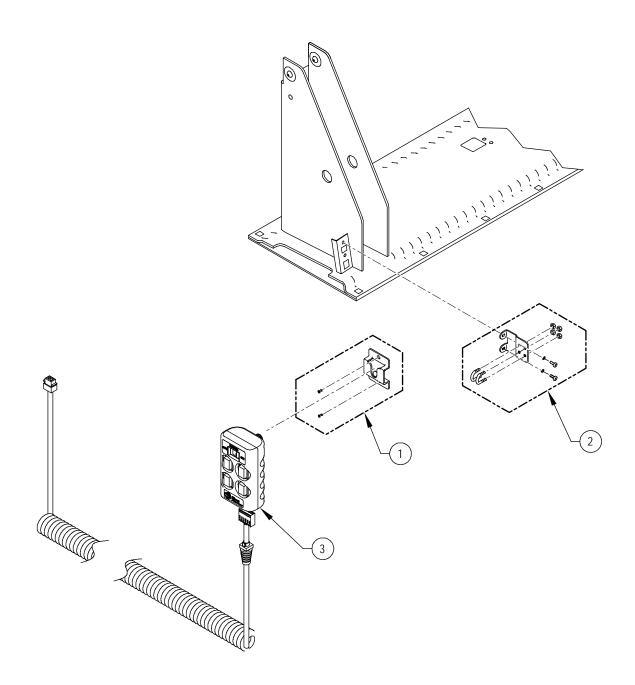
FIGURE 4-4: PUBLIC USE ELECTRICAL SYSTEM



FIGURE 4-4: PUBLIC USE ELECTRICAL SYSTEM					
FIG.	DESCRIPTION	QTY	CONFIG.	PART NO.	
1	CAM, LIFT CONTROL	1		V2-AC-107	
2	SWITCH, LIMIT, FOLD CUTOFF	1		V2-ES-111	
3	BLOCK, FOLD CUTOFF SWITCH OFFSET, 1/4" THICK	1		V2-ES-78	
4	BLOCK, FOLD CUTOFF SWITCH OFFSET, 3/8" THICK	1		V2-ES-79	
5	SPRING, RETAINING, UPPER/LOWER SWITCH BLOCK	1		V2-ES-95	
6 *	SWITCH BLOCK ASSEMBLY (SUPERSEDED BY 34314)	2		V2-ES-82	
6A	SWITCH BLOCK	2		34314	
7	ACTUATOR, FOLD CUTOFF	1		V2-AC-089	
8	SWITCH, LIMIT, FLOOR LEVEL POWER CUTOFF, UP & DOWN	2		V2-ES-110	
9	KIT, LIMIT SWITCH BLOCK REPLACEMENT	2		V2-ES-61	
10	SCREW, 4-40 X 1.25 PAN HEAD (BAG OF 10)	1		15908	
11	SCREW, 4-40 X .75 PAN HEAD (BAG OF 10)	1		15909	
12	NUT, HEX, 4-40 (BAG OF 10)	1		15903	
13 **	ELECTRICAL HARNESS, MAIN, W/O INTERLOCK	1		33032	
14	MS, 10-24 X ½ PHIL PAN (BAG OF 10)	1		13304	
15	PIN, EXTENSION FOLD CUTOFF (BAG OF 10)	1		15914	
16	MS 10-24 X 1 3/4 PHIL PAN (BAG OF 10)	1		29318	
17	MS 8-32 X 1 1/4 PHIL PAN (BAG OF 10)	1		15906	
18	NUT, HEX, 8-32 NYLON INSERT (BAG OF 10)	1		15907	
19	TAPE, NON-REFLECTIVE	1		35706	
20	ENCLOSURE, SENSOR, PAINTED (P/N 32295 OBS)	2		35403	
21	SENSOR, PHOTOBEAM, RECEIVER	2		32499	
22	SENSOR, PHOTOBEAM, TRANSMITTER	2		32498	
23	SCREW, RD HEAD, 10-24 X 2" (BAG OF 10)	1		14497	
24	SPRING, COMPRESSION, .30 X 2.06L	2		V2-ES-93	
25	DIS;ROLLPIN,3/32x1(BAG OF 10)	1		14498	
26	ROLLPIN, .94 X .50 (BAG OF 10)	1		14496	
27	PCB ASSEMBLY, PUBLIC	1		55914	
28	SHORTING PLUG	1		UL-ES-007	
29 *	HARNESS, PCB TO CAM SWITCH	1		33030	
*	HARNESS, PCB TO POWER INTERRUPT	1		33031	
*	HARNESS, INTERLOCK	1		33044	
*	HARNESS, PCB TO PLATFORM	1		33807	
30	KIT, CIRCUIT BREAKER, MAIN (90A) – 12 VOLTS	1		01010K	
30A *	KIT, CIRCUIT BREAKER, 50 AMP – 24 VOLTS	1		01291	
31	BRIDGEPLATE LOAD SENSOR	1		31791	

NOTE: \* Item or configuration not shown.

NOTE: \*\* Does not include all harnesses. Reference Item 29.



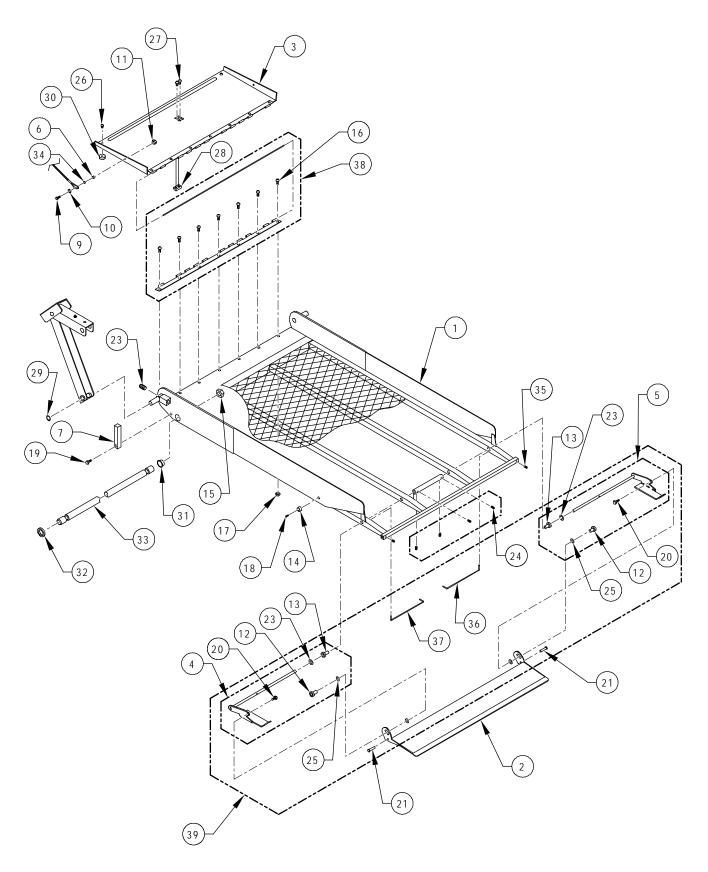
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FIGURE 4-5: PUBLIC USE PENDANT



FIGURE 4-5: PUBLIC USE PENDANT				
FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.
1	KIT, PENDANT, MOUNT	1		33021
2	KIT, CTL HARNESS, STRAIN RELIEF, W/U-BOLT	1		01007
3	KIT, PENDANT, W/7FT CORD	1	S2003	33022
	KIT, PENDANT, W/7FT CORD	1	S2005	33022
	KIT, PENDANT, W/7FT CORD	1	S2006	33022
	KIT, PENDANT, W/7FT CORD	1	S2008	33022
	KIT, PENDANT, W/7FT CORD	1	S2010	33022
	KIT, PENDANT, W/7FT CORD	1	S2036	33022
	KIT, PENDANT, W/7FT CORD	1	S5003	33022
	KIT, PENDANT, W/7FT CORD	1	S5005	33022
	KIT, PENDANT, W/7FT CORD	1	S5006	33022
	KIT, PENDANT, W/7FT CORD	1	S5010	33022
	KIT, PENDANT, W/7FT CORD	1	S5503	33022
	KIT, PENDANT, W/7FT CORD	1	S5505	33022
	KIT, PENDANT, W/7FT CORD	1	S5510	33022
3A *	KIT, PENDANT, W/COILED CORD (SUPERSEDED 33436)	1		42968
3B *	KIT, PENDANT, W/STEEL CORD (SUPERSEDED 33029)	1		44852
3C *	KIT, PENDANT, COIL CORD, .29 DIA, PUSH BUTTON BLK	1	S2005	42968
*	KIT, PENDANT, COIL CORD, .29 DIA, PUSH BUTTON BLK	1	S2010	42968
*	KIT, PENDANT, COIL CORD, .29 DIA, PUSH BUTTON BLK	1	S5006	42968
*	KIT, PENDANT, COIL CORD, .29 DIA, PUSH BUTTON BLK	1	S5503	42968
*	KIT, PENDANT, COIL CORD, .29 DIA, PUSH BUTTON BLK	1	S5505	42968
*	KIT, PENDANT, COIL CORD, .29 DIA, PUSH BUTTON BLK	1	S5510	42968
3D *	KIT, PENDANT, STEEL CORD, 7 FT, FMVSS, BLK	1	S2003	44852
*	KIT, PENDANT, STEEL CORD, 7 FT, FMVSS, BLK	1	S2005	44852
*	KIT, PENDANT, STEEL CORD, 7 FT, FMVSS, BLK	1	S2010	44852
*	KIT, PENDANT, STEEL CORD, 7 FT, FMVSS, BLK	1	S5005	44852
*	KIT, PENDANT, STEEL CORD, 7 FT, FMVSS, BLK	1	S5510	44852

NOTE: \* Item or configuration not shown.



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FIGURE 4-6: PUBLIC USE PLATFORM



FIG. ITEM         DESCRIPTION         QTY         CONFIG.         PART NO.           1         * PLATFORM ASSY, SOLID, 30 X 51         1         \$2003         32467           * PLATFORM ASSY, SOLID, 30 X 51         1         \$5003         32467           1A * PLATFORM ASSY, SOLID, 30 X 51         1         \$5503         33489           1B * PLATFORM ASSY, SOLID, 32 X 51         1         \$2005         32446           * PLATFORM ASSY, SOLID, 32 X 51         1         \$5505         33485           1C * PLATFORM ASSY, SOLID, 32 X 51         1         \$5505         33485           1D * PLATFORM ASSY, SOLID, 32 X 51         1         \$5505         33485           1D * PLATFORM ASSY, SOLID, 34 X 54         1         \$2010         32469           1E * PLATFORM ASSY, SOLID, 34 X 54         1         \$5510         34249           2 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)         1         \$5003         39951           ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)         1         \$5003         39951           2A * ROLLSTOP ASSY, 6", 32" WIDE PLATFORM (SUPERSEDED P/N 32445)         1         \$2005         39952           2B * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM         1         \$5510         39953           * C * ROL	FIGURE 4-6: PUBLIC USE PLATFORM					
* PLATFORM ASSY, SOLID, 30 X 51			DESCRIPTION	QTY	CONFIG.	PART NO.
1A * PLATFORM ASSY, SOLID, 30 X 51       1       S5503       33489         1B * PLATFORM ASSY, SOLID, 32 X 51       1       S2005       32446         * PLATFORM ASSY, SOLID, 32 X 51       1       S5005       32446         1C * PLATFORM ASSY, SOLID, 32 X 51       1       S5505       33485         1D * PLATFORM ASSY, SOLID, 34 X 54       1       S2010       32469         1E * PLATFORM ASSY, SOLID, 34 X 54       1       S5510       34249         2 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)       1       S2003       39951         ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)       1       S5503       39951         ROLLSTOP ASSY, 6", 32" WIDE PLATFORM (SUPERSEDED P/N 32466)       1       S2005       39952         2B * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM       1       S2010       39953         * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM       1       S5510       39953         2C * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM       1       S5516       39954         * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM       1       S5516       39954         * BRIDGEPLATE, 30"       1       S5503       32464         BRIDGEPLATE, 30"       1       S5503       32464         BR BRIDGEPLATE, 32"	1	*	PLATFORM ASSY, SOLID, 30 X 51	1	S2003	32467
1B * PLATFORM ASSY, SOLID, 32 X 51         1         \$2005         32446           * PLATFORM ASSY, SOLID, 32 X 51         1         \$5005         32446           1C * PLATFORM ASSY, SOLID, 32 X 51         1         \$5505         33485           1D * PLATFORM ASSY, SOLID, 34 X 54         1         \$2010         32469           1E * PLATFORM ASSY, SOLID, 34 X 54         1         \$5510         34249           2 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)         1         \$2003         39951           ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)         1         \$5503         39951           ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)         1         \$5503         39951           2A * ROLLSTOP ASSY, 6", 32" WIDE PLATFORM (SUPERSEDED P/N 32445)         1         \$2005         39952           2B * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM         1         \$2010         39953           * C * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM         1         \$5510         39954           * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM         1         \$5506         39954           * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM         1         \$5506         39954           * BRIDGEPLATE, 30"         1         \$5003         32464           3A		*	PLATFORM ASSY, SOLID, 30 X 51	1	S5003	32467
* PLATFORM ASSY, SOLID, 32 X 51	1A	*	PLATFORM ASSY, SOLID, 30 X 51	1	S5503	33489
1C * PLATFORM ASSY, SOLID, 32 X 51	1B	*	PLATFORM ASSY, SOLID, 32 X 51	1	S2005	32446
1D * PLATFORM ASSY, SOLID, 34 X 54  1E * PLATFORM ASSY, SOLID, 34 X 54  2 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)  1 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)  1 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)  1 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)  2A * ROLLSTOP ASSY, 6", 32" WIDE PLATFORM (SUPERSEDED P/N 32445)  2B * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM (SUPERSEDED P/N 32445)  ** ROLLSTOP ASSY, 6", 34" WIDE PLATFORM  1 S2010 39953  ** ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM  1 S5510 39954  ** ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM  1 S5506 39954  ** ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM  1 S5516 39954  3 BRIDGEPLATE, 30"  1 S2003 32464  BRIDGEPLATE, 30"  1 S5503 33488  3B * BRIDGEPLATE, 32"  1 S5505 33483  3D * BRIDGEPLATE, 34"  1 S2010 32470  3E * BRIDGEPLATE, 34"  1 S5510 33082		*	PLATFORM ASSY, SOLID, 32 X 51	1	S5005	32446
1E * PLATFORM ASSY, SOLID, 34 X 54 2 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466) 1 S2003 39951 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466) 1 S5003 39951 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466) 1 S5503 39951 2A * ROLLSTOP ASSY, 6", 32" WIDE PLATFORM (SUPERSEDED P/N 32445) 1 S2005 39952 2B * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM (SUPERSEDED P/N 32445) 1 S2010 39953 * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM 1 S5510 39953 2C * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM 1 S5506 39954 * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM 1 S5516 39954 3 BRIDGEPLATE, 30" 1 S2003 32464 BRIDGEPLATE, 30" 1 S5003 32464 3A * BRIDGEPLATE, 30" 1 S5503 33488 3B * BRIDGEPLATE, 30" 1 S5503 33488 3B * BRIDGEPLATE, 32" 1 S2005 32444 3C * BRIDGEPLATE, 32" 1 S2005 32444 3C * BRIDGEPLATE, 34" 1 S2010 32470 3E * BRIDGEPLATE, 34" 1 S5510 33082	1C	*	PLATFORM ASSY, SOLID, 32 X 51	1	S5505	33485
2 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466) 1 S2003 39951 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466) 1 S5003 39951 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466) 1 S5503 39951 2A * ROLLSTOP ASSY, 6", 32" WIDE PLATFORM (SUPERSEDED P/N 32445) 1 S2005 39952 2B * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM 1 S2010 39953 * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM 1 S5510 39953 2C * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM 1 S5006 39954 * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM 1 S5516 39954 3 BRIDGEPLATE, 30" 1 S2003 32464 BRIDGEPLATE, 30" 1 S5003 32464 3A * BRIDGEPLATE, 30" 1 S5503 33488 3B * BRIDGEPLATE, 32" 1 S2005 32444 3C * BRIDGEPLATE, 32" 1 S2005 32444 3C * BRIDGEPLATE, 32" 1 S5505 33483 3D * BRIDGEPLATE, 34" 1 S2010 32470 3E * BRIDGEPLATE, 34" 1 S5510 33082	1D	*	PLATFORM ASSY, SOLID, 34 X 54	1	S2010	32469
ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466) 1 S5003 39951 ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466) 1 S5503 39951  2A * ROLLSTOP ASSY, 6", 32" WIDE PLATFORM (SUPERSEDED P/N 32445) 1 S2005 39952  2B * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM 1 S2010 39953  * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM 1 S5510 39953  2C * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM 1 S5006 39954  * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM 1 S5516 39954  * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM 1 S5516 39954  3 BRIDGEPLATE, 30" 1 S2003 32464  3A * BRIDGEPLATE, 30" 1 S5503 32464  3A * BRIDGEPLATE, 30" 1 S5503 32444  3C * BRIDGEPLATE, 32" 1 S2005 32444  3C * BRIDGEPLATE, 32" 1 S2005 32444  3C * BRIDGEPLATE, 34" 1 S2010 32470  3E * BRIDGEPLATE, 34" 1 S5510 33082	1E	*	PLATFORM ASSY, SOLID, 34 X 54	1	S5510	34249
ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466) 1 S5503 39951  2A * ROLLSTOP ASSY, 6", 32" WIDE PLATFORM (SUPERSEDED P/N 32445) 1 S2005 39952  2B * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM 1 S2010 39953  * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM 1 S5510 39953  2C * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM 1 S5506 39954  * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM 1 S5516 39954  3 BRIDGEPLATE, 30" 1 S2003 32464  BRIDGEPLATE, 30" 1 S5003 32464  3A * BRIDGEPLATE, 30" 1 S5503 33488  3B * BRIDGEPLATE, 32" 1 S2005 32444  3C * BRIDGEPLATE, 32" 1 S5505 33483  3D * BRIDGEPLATE, 34" 1 S2010 32470  3E * BRIDGEPLATE, 34" 1 S5510 33082	2		ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)	1	S2003	39951
2A * ROLLSTOP ASSY, 6", 32" WIDE PLATFORM (SUPERSEDED P/N 32445) 1 S2005 39952 2B * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM 1 S2010 39953     * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM 1 S5510 39953  2C * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM 1 S5006 39954     * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM 1 S5516 39954 3 BRIDGEPLATE, 30" 1 S2003 32464 BRIDGEPLATE, 30" 1 S5503 32464 3A * BRIDGEPLATE, 30" 1 S5503 33488 3B * BRIDGEPLATE, 32" 1 S2005 32444 3C * BRIDGEPLATE, 32" 1 S5505 33483 3D * BRIDGEPLATE, 34" 1 S2010 32470 3E * BRIDGEPLATE, 34" 1 S5510 33082			ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)	1	S5003	39951
2B * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM       1       \$2010       39953         * ROLLSTOP ASSY, 6", 34" WIDE PLATFORM       1       \$5510       39953         2C * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM       1       \$5006       39954         * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM       1       \$5516       39954         3 BRIDGEPLATE, 30"       1       \$2003       32464         BRIDGEPLATE, 30"       1       \$5503       33488         3B * BRIDGEPLATE, 32"       1       \$2005       32444         3C * BRIDGEPLATE, 32"       1       \$5505       33483         3D * BRIDGEPLATE, 34"       1       \$5510       33082			ROLLSTOP ASSY, 6", 30" WIDE PLATFORM (SUPERSEDED P/N 32466)	1	S5503	39951
* ROLLSTOP ASSY, 6", 34" WIDE PLATFORM  1 S5510 39953  2C * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM  1 S5006 39954  * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM  1 S5516 39954  3 BRIDGEPLATE, 30"  1 S2003 32464  BRIDGEPLATE, 30"  1 S5503 33488  3B * BRIDGEPLATE, 32"  1 S2005 32444  3C * BRIDGEPLATE, 32"  1 S5505 33483  3D * BRIDGEPLATE, 34"  1 S2010 32470  3E * BRIDGEPLATE, 34"  1 S5510 33082	2A	*	ROLLSTOP ASSY, 6", 32" WIDE PLATFORM (SUPERSEDED P/N 32445)	1	S2005	39952
2C * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM       1       \$5006       39954         * ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM       1       \$5516       39954         3       BRIDGEPLATE, 30"       1       \$2003       32464         BRIDGEPLATE, 30"       1       \$5503       33488         3B * BRIDGEPLATE, 32"       1       \$2005       32444         3C * BRIDGEPLATE, 32"       1       \$5505       33483         3D * BRIDGEPLATE, 34"       1       \$5510       33082	2B	*	ROLLSTOP ASSY, 6", 34" WIDE PLATFORM	1	S2010	39953
* ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM  1 S5516 39954  3 BRIDGEPLATE, 30" 1 S2003 32464  BRIDGEPLATE, 30" 1 S5003 32464  3A * BRIDGEPLATE, 30" 1 S5503 33488  3B * BRIDGEPLATE, 32" 1 S2005 32444  3C * BRIDGEPLATE, 32" 1 S5505 33483  3D * BRIDGEPLATE, 34" 1 S2010 32470  3E * BRIDGEPLATE, 34" 1 S5510 33082		*	ROLLSTOP ASSY, 6", 34" WIDE PLATFORM	1	S5510	39953
3 BRIDGEPLATE, 30" 1 S2003 32464 BRIDGEPLATE, 30" 1 S5003 32464  3A * BRIDGEPLATE, 30" 1 S5503 33488  3B * BRIDGEPLATE, 32" 1 S2005 32444  3C * BRIDGEPLATE, 32" 1 S5505 33483  3D * BRIDGEPLATE, 34" 1 S2010 32470  3E * BRIDGEPLATE, 34" 1 S5510 33082	2C	*	ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM	1	S5006	39954
BRIDGEPLATE, 30" 1 S5003 32464  3A * BRIDGEPLATE, 30" 1 S5503 33488  3B * BRIDGEPLATE, 32" 1 S2005 32444  3C * BRIDGEPLATE, 32" 1 S5505 33483  3D * BRIDGEPLATE, 34" 1 S2010 32470  3E * BRIDGEPLATE, 34" 1 S5510 33082		*	ROLLSTOP ASSY, 6", 39.5" WIDE PLATFORM	1	S5516	39954
3A * BRIDGEPLATE, 30"       1 S5503 33488         3B * BRIDGEPLATE, 32"       1 S2005 32444         3C * BRIDGEPLATE, 32"       1 S5505 33483         3D * BRIDGEPLATE, 34"       1 S2010 32470         3E * BRIDGEPLATE, 34"       1 S5510 33082	3		BRIDGEPLATE, 30"	1	S2003	32464
3B * BRIDGEPLATE, 32"       1 S2005 32444         3C * BRIDGEPLATE, 32"       1 S5505 33483         3D * BRIDGEPLATE, 34"       1 S2010 32470         3E * BRIDGEPLATE, 34"       1 S5510 33082			BRIDGEPLATE, 30"	1	S5003	32464
3C * BRIDGEPLATE, 32"       1 S5505 33483         3D * BRIDGEPLATE, 34"       1 S2010 32470         3E * BRIDGEPLATE, 34"       1 S5510 33082	ЗА	*	BRIDGEPLATE, 30"	1	S5503	33488
3D * BRIDGEPLATE, 34"       1 S2010 32470         3E * BRIDGEPLATE, 34"       1 S5510 33082	3B	*	BRIDGEPLATE, 32"	1	S2005	32444
3E * BRIDGEPLATE, 34" 1 S5510 33082	3C	*	BRIDGEPLATE, 32"	1	S5505	33483
	3D	*	BRIDGEPLATE, 34"	1	S2010	32470
	3E	*	BRIDGEPLATE, 34"	1	S5510	33082
4 KIT, ROLLSTOP ACTUATOR REPLACEMENT, LH 1 22903	4		KIT, ROLLSTOP ACTUATOR REPLACEMENT, LH	1		22903
4A * KIT, ACTUATOR, 34" PLATFORM, LH (12.25") 1 45584	4A	*	KIT, ACTUATOR, 34" PLATFORM, LH (12.25")	1		45584
5 KIT, ROLLSTOP ACTUATOR REPLACEMENT, RH 1 22902	5		KIT, ROLLSTOP ACTUATOR REPLACEMENT, RH	1		22902
5A * KIT, ACTUATOR, 34" PLATFORM, RH (12.25") 1 55671	5A	*	KIT, ACTUATOR, 34" PLATFORM, RH (12.25")	1		55671
6 SPACER, BRIDGEPLATE SPRING 2 UV-PF-839	6		SPACER, BRIDGEPLATE SPRING	2		UV-PF-839
7 BLOCK, PLATFORM LEVEL ADJUSTMENT 1 VT-AH-142	7		BLOCK, PLATFORM LEVEL ADJUSTMENT	1		VT-AH-142
8 KIT, COLLAR, ROLLSTOP ACTUATOR, 6.25" 1 28775	8		KIT, COLLAR, ROLLSTOP ACTUATOR, 6.25"	1		28775
9 SCREW, HEX HEAD, 1/4-20 X 7/8" (BAG OF 10) 2 15920	9		SCREW, HEX HEAD, 1/4-20 X 7/8" (BAG OF 10)	2		15920
10 WASHER, 1/4" ID, FLAT SAE (BAG OF 10) 2 17504	10		WASHER, 1/4" ID, FLAT SAE (BAG OF 10)	2		17504
11 NUT, HEX, 1/4-20, NYLON INSERT (BAG OF 10) 2 15919			·			
12 "T" NUT, STAINLESS (BAG OF 10) 2 14485			•			
13 BUSHING, BRONZE, .392ID 2 V2-BU-195			,			
14 BUMPER, UHMW PLASTIC, 75ID X .38 T 2 V2-AC-027						
15 NUT, HEX, 5/16-18 (BAG OF 10) 2 13349						
16 SCREW, BUTTON HEAD, 5/16-18 X 3/4", SST (BAG OF 10) 7 15983			,			

NOTE: \* Fully assembled platform with all items shown except item 33 and 34.

**NOTE**: \*\* Must be used with V2-AC-102.



FIGURE 4-6: PUBLIC USE PLATFORM (CONT'D)				
FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.
17	NUT, HEX, 5/16-18, NYLON INSERT, SST, (BAG OF 10)	7		14415
8	SCREW, TEK PAN HEAD, 8 X 3/4" (BAG OF 10)	2		15911
9	SCREW, HEX HEAD, 5/16-18 X 1, GR5 (BAG OF 10)	2		15953
0	SCREW, HEX HEAD, 1/4-20 X 1/2", GR5 (BAG OF 10)	2		34518
1	PIN, ROLLSTOP (BAG OF 10)	2		19513
2	WASHER, FLAT, .81OD X .41ID (BAG OF 10)	2		17510
3	SETSCREW, HEX RECESS, 1/2-20 X 1-1/4" (BAG OF 10)	2		19704
4	SETSCREW, HEX RECESS, 1/4-20 X 1/4" CUP POINT (BAG OF 10)	4		13312
5	WASHER, FLAT, NYLON, .32ID X .75OD X .031 (BAG OF 10)	4		14467
6	SCREW, BUTTON HEAD, 1/4-20 X 3/8, SST (BAG OF 10)	2		13309
7	SCREW, BUTTON HEAD, 5/16-18 X 1/2", SST (BAG OF 10)	2		14484
8 **	CATCH, BASE LATCH	1		V2-AC-103
9	RETAINING RING, .75" EXT (BAG OF 10)	2		11796
0	GUIDE, 1.00 OD X 1/4-20 ID	2		UL-AC-034
1	BUSHING, 1"ID X 1/2" (BAG OF 10)	2		19579
2	SHIM, PVC	2		V2-BU-091
3	KIT, SHAFT, MAIN, PLATFORM, 1" X 39.13", 32" (REF P/N VT-PI-49)	1	S2005	34893
	KIT, SHAFT, MAIN, PLATFORM, 1" X 39.13", 32" (REF P/N VT-PI-49)	1	S5005	34893
	KIT, SHAFT, MAIN, PLATFORM, 1" X 39.13", 32" (REF P/N VT-PI-49)	1	S5505	34893
3A *	KIT, SHAFT, MAIN, PLATFORM, 1" X 40.50", 34" (REF 16607)	1	S2010	34887
	KIT, SHAFT, MAIN, PLATFORM, 1" X 40.50", 34" (REF 16607)	1	S5510	34887
3B *	KIT, SHAFT, MAIN, 1.00 X 36.50L (PACKAGED)	1	S2003	34890
3C *	KIT, SHAFT, MAIN, 1.00 X 46.00L (PACKAGED)	1	S5006	34892
*	KIT, SHAFT, MAIN, 1.00 X 46.00L (PACKAGED)	1	S5516	34892
4	BUSHING, STEEL, .25ID X .32OD X .19L	2		V2-BU-003
5	SETSCREW, HEX RECESS 1/4-20 X 1/4", CONE POINT (BAG OF 10	0) 2		14492
6	SPRING, TORSION, RH	1		V2-SP-022
7	SPRING, TORSION, LH	1		V2-SP-021

KIT, REPLACEMENT ASSY, 6" ROLLSTOP, 32" PLATFORM

NOTE: \* Fully assembled platform with all items shown except item 33 and 34.

KIT, HINGE, W/PIN, CHARCOAL GREY

**NOTE**: \*\* Must be used with V2-AC-102.

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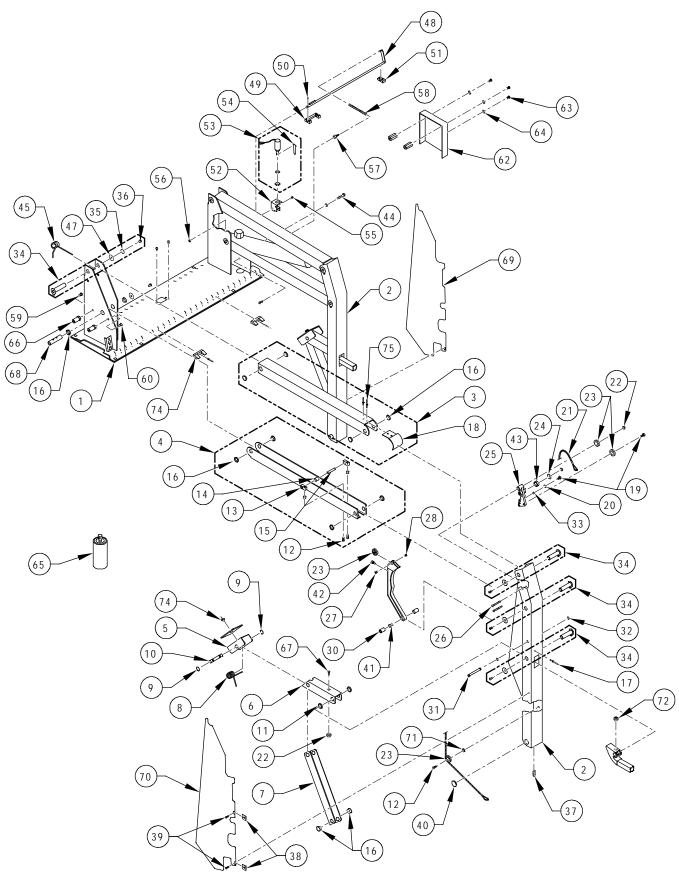


FIGURE 4-7: PUBLIC USE TRAVELING FRAME

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	FIGURE 4-7: PUBLIC USE TRAVELING FRAME					
FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.		
1	BASEPLATE ASSY, 32"W, W/O INTERLOCK (FMVSS) LH	1	S2005	36248		
	BASEPLATE ASSY, 32"W, W/O INTERLOCK (FMVSS) LH	1	S5005	36248		
	BASEPLATE ASSY, 32"W, W/O INTERLOCK (FMVSS) LH	1	S5505	36248		
1A *	BASEPLATE ASSY, 32"W, W/O INTERLOCK (FMVSS) RH	1	S2005	36248R		
*	BASEPLATE ASSY, 32"W, W/O INTERLOCK (FMVSS) RH	1	S5005	36248R		
*	BASEPLATE ASSY, 32"W, W/O INTERLOCK (FMVSS) RH	1	S5505	36248R		
1B *	BASEPLATE ASSY, 34", W/O INTERLOCK	1	S2010	16618		
*	BASEPLATE ASSY, 34", W/O INTERLOCK	1	S5510	16618		
2	VERTICAL ARM ASSY, RH	1	S20XX	VT-AC-241		
2A	VERTICAL ARM ASSY, LH	1	S20XX	VT-AC-242		
2B *	VERTICAL ARM ASSY, RH	1	S5003	V5-AC-241		
2C *	VERTICAL ARM ASSY, LH	1	S5003	V5-AC-242		
2D *	VERTICAL ARM ASSY, RH	1	S5500	33476		
2E *	VERTICAL ARM ASSY, LH	1	S5500	33477		
3	TOP ARM ASSY	2	S2000	VT-AC-250		
3A *	TOP ARM ASSY	2	S5000	V5-AC-250		
3B *	TOP ARM ASSY	2	S5500	30858		
4	BOTTOM ARM ASSY	2	S2000	VT-AC-252		
4A *	BOTTOM ARM ASSY	2	S5000	V5-AC-252		
4B *	BOTTOM ARM ASSY	2	S5500	30835		
5	SADDLE ASSEMBLY, w/T-NUT	2		VT-AC-046		
6	UPPER LINK, KNUCKLE	2		VT-AC-070		
7	LINK, VERTICAL KNUCKLE ASSY	2	S2000	VT-AC-069		
7A *	LINK, VERTICAL KNUCKLE ASSY	2	S5000	V5-AC-069		
7B *	LINK, VERTICAL KNUCKLE ASSY	2	S5500	30863		
8	SPRING, KNUCKLE ACTUATOR	2		VT-SP-42		
9	RETAINING RING, .75" EXT (BAG OF 10)	1		14-31-075		
10	PIN, SNAP RING, .75 OD X 2.15L	2		VT-PI-41		
11	KIT, SPACER, IRS CAM	4		01224		
12	SCREW, BHS, 1/4-20 X 1", SST (BAG OF 10)	1		19715		
13	BLOCK, CAM ROLLER (SUPERSEDED V2-AC-025)	4		37729		
14	ROLLER, BRIDGEPLATE CAM	2		V2-AC-124		
15	PIN, CAM ROLLER	2		V2-PI-094		
16	KIT FLANGE BEARING, 3/4" ID (KIT OF 10)	3		19576		
17	RIVET, BLIND, 3/16 X 3/8", ALUM (BAG OF 10)	1		15918		
18	CAP, END, UPPER PARALLEL ARM	2		V2-AC-89		
19	SCREW, HEX HEAD, 1/4-20 x 3/4, GR5 (BAG OF 10)	4		13308		
19A	SCREW, FLAT HEAD, 1/4-20 x ½ (BAG OF 10)	1		15928		
20	WASHER, FLAT HEAD, .63OD x .28ID x .065 (BAG OF 10)	2		17504		

**NOTE**: \* Item or configuration not shown.



FIGURE 4-7: PUBLIC USE TRAVELING FRAME (CONT'D)						
FIG. ITEM	DESCRIPTION	QTY	CONFIG.	PART NO.		
21	KIT, REPLACEMENT, CABLE ASSY, IRS, BRIDGEPLATE, 52.75"	2	S2000	16094		
21A *	KIT, REPLACEMENT, CABLE ASSY, IRS, BRIDGEPLATE, 49.75"	2	S5000	16095		
21B *	KIT, REPLACEMENT, CABLE ASSY, IRS, BRIDGEPLATE, 58.50"	2	S5500	34247		
22	NUT, HEX, 1/4-20, NYLON INSERT (BAG OF 10)	2		15919		
23	BEARING, GROOVED	8		VS-AH-06		
24	WASHER, FENDER, 1.00OD x .28ID x .065 (BAG OF 10)	2		25623		
25	BLOCK, PULLEY MOUNT, BRIDGEPLATE	2		V2-AC-112		
26	SCREW, BUTTON HEAD, 1/4-20 x 2 1/4, SST (BAG OF 10)	1		19720		
27	T-NUT, FLAT HEAD, 10-24 X .25 OD X .44L	2		V2-AC-015		
28	SCREW, FLAT HEAD, 10-24 x ½ (BAG OF 10)	1		13303		
29	CAM ASSY, BRIDGEPLATE ACTUATOR	2		V2-AC-190		
30	KIT, SPACER, RUBBER, BRIDGEPLATE CAM	4		01224		
31	PIN, SNAP RING, .38 OD X 3.09 L	2		VS-PI-09		
32	RETAINING RING, .38 ID (BAG OF 10)	1		11795		
33	BUSHING, STEEL, .25 ID X .32 OD X .19 L	2		V2-BU-003		
34	KIT, RETROFIT, PIN, LINK-ARM, w/ HDWR	3		16679		
35	WASHER, FENDER, 5/16, SST (BAG OF 10)	1		15921		
36	SCREW, BUTTON HEAD, 5/16-18 X 1/2 SST, w/ NYLCK (BAG OF 1	0) 1		14494		
37	SETSCREW, 3/8-16 x 3/8, CUP PT (BAG OF 10)	1		11797		
38	SPRING NUT, 10-24, U-TYPE (BAG OF 10)	1		11799		
39	SCREW, PAN HEAD, 10-24 x 1/2" (BAG OF 10)	1		13304		
40	PLUG, 1" LOW PROFILE, BLACK NYLON	2		25563		
41	BEARING, NYLINER, 3/8 ID 11/16 L	2		25562		
42	BUMPER, BUTTON, BRIDGEPLATE CAM (BAG OF 10)	1		19783		
43	BUMPER, BRIDGEPLATE CAM, ANTI-RATTLE	2		V2-BU-090		
44	SCREW, HEX HEAD, 1/4-20 X 1-3/4, GR5 (BAG OF 10)	1		25696		
45	SPRING, UPPER PARALLEL ARM	2		V2-SP-97		
46	SETSCREW, 5/16-18 x 1, CUP PT (BAG OF 10)	1		15830		
47	WASHER, KEYED	2		20258		
48	KIT, LATCH RELEASE, 30", w/BLOCKS & HDWR	1		28768		
48A	KIT, LATCH RELEASE, 26", w/BLOCKS & HDWR	1		28767		
49	BLOCK, CENTER MOUNTING, BASE LATCH	1		V2-AC-102		
50	DOWEL PIN, .094 DIA X .38 L (BAG OF 10)	1		25615		
51	BLOCK, MOUNT, BASE LATCH	1		V2-AC-001		
52	BRACKET, STOW LOCK SOLENOID	1		V2-AC-108		
53	KIT, SOLENOID ASSY, 12V	1		V2-ES-127		
54	CLIP, SPRING, BASE LATCH, SST	1		V2-AC-009		
55	SCREW, PAN HEAD, 10-24 x ½ (BAG OF 10)	1		13304		
55 A	SCDEW, FLAT HEAD, 10.24 x 1/2 (BAC OF 10)			14406		

SCREW, FLAT HEAD, 10-24 x ½, SST (BAG OF 10)

**NOTE**: \* Item or configuration not shown.



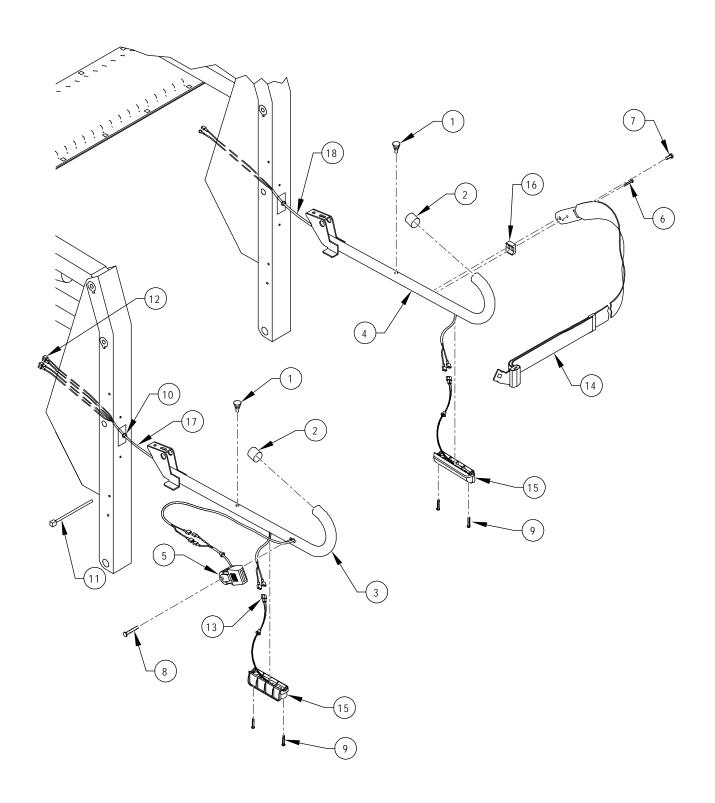
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FIGURE 4-7: PUBLIC USE TRAVELING FRAME (CONT'D)					
FIG.	DESCRIPTION	QTY	CONFIG.	PART NO.	
56	NUT, HEX, NYLON INSERT, 10-24 (BAG OF 10)	1		13382	
57	PIN, SPRING MOUNTING	1		V2-PI-095	
58	SPRING, STO-LOCK RELEASE, .380D X 3.5"	1		V2-SP-093	
59	SCREW, HEX HEAD, 5/16-18 X 3/4" (BAG OF 10)	1		15901	
60	SCREW, FLAT HEAD, 5/16-18 X 3/4" (BAG OF 10)	1		14499	
61	SCREW, BUTTON HEAD, 1/4-20 X 1/2", SST (BAG OF 10)	1		15902	
62	COVER, BASE LATCH	1		V2-CV-123	
63	SCREW, HEX HEAD, 5/16-18 X .625, GR 5 (BAG OF 10)	1		14495	
64	WASHER, FLAT, .69OD x .34ID x .065 (BAG OF 10)	1		13350	
65	SPRAY PAINT, TOUCH-UP, CHARCOAL	1		25340	
66	BUSHING, E-COVER MOUNT	2		V2-BU-081	
67	SCREW, HEX HEAD, 1/4-20 X 1, GR5 (BAG OF 10)	1		14493	
68	PIN, CONTROL CAM	1		V2-PI-091	
69	KIT, PINCH POINT SHIELD w/ HDWR, RH	1	S2000	29178	
69A *	KIT, PINCH POINT SHIELD w/ HDWR, RH	1	S5000	29171	
*	KIT, PINCH POINT SHIELD w/ HDWR, RH	1	S5500	29171	
69B *	KIT, PINCH PT SHIELD, w/HDWR, RH	1	S2003	29179	
70	KIT, PINCH POINT SHIELD w/ HDWR	1	S2000	29162	
70A *	KIT, PINCH POINT SHIELD w/ HDWR, LH	1	S5000	29157	
*	KIT, PINCH POINT SHIELD w/ HDWR, LH	1	S5500	29157	
70B *	KIT, PINCH PT SHIELD, w/HDWR, LH	1	S2003	29162	
71	BUSHING, 5/8" OD X 3/16" ID	2		VS-AH-13	
72	GROMMET, .30 ID x .88 OD x .44 (BAG OF 10)	1		23391	
73	KIT, REPLACEMENT SOLENOID, 12V	1		01238	
74	GUIDE BLOCK, BRIDGEPLATE	2		34343	
75	RIVET, BLIND, STEEL 3/16 X 5/8 (BAG OF 10)	4		34519	

NOTE: \* Item or configuration not shown.

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FIGURE 4-8: PUBLIC USE HANDRAILS



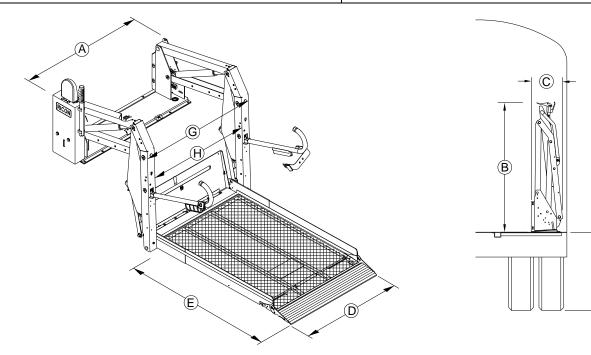
FIGURE 4-8: PUBLIC USE HANDRAILS					
FIG.	DESCRIPTION	QTY	CONFIG.	PART NO.	
1	BUMPER, RUBBER (BAG OF 10)	1		20653	
2	CAP, ROUND, BLACK	2		25550	
3	HANDRAIL, LH	1	S2000	32989	
	HANDRAIL, LH	1	S5000	32989	
	HANDRAIL, LH	1	S5500	32989	
3A *	HANDRAIL ASSY, FMVSS, LH, W/BUCKLE ASSY	1	S2005-C	36569	
*	HANDRAIL ASSY, FMVSS, LH, W/BUCKLE ASSY	1	S5000	36569	
*	HANDRAIL ASSY, FMVSS, LH, W/BUCKLE ASSY	1	S5500	36569	
3B *	HANDRAIL ASSY, FMVSS, LH, W/BUCKLE ASSY, SPL	REF	S2036	46257	
3C *	HANDRAIL ASSY, FMVSS, LH, w/BUCKLE ASSY	1	S2003-F	32479	
*	HANDRAIL ASSY, FMVSS, LH, w/BUCKLE ASSY		S2005-C	32479	
4	HANDRAIL, RH	1	S2000	32988	
	HANDRAIL, RH	1	S5000	32988	
	HANDRAIL, RH	1	S5500	32988	
4A *	HANDRAIL ASSY, FMVSS, RH	1	S2005-C	36570	
*	HANDRAIL ASSY, FMVSS, RH	1	S5000	36570	
*	HANDRAIL ASSY, FMVSS, RH	1	S5500	36570	
4B *	HANDRAIL ASSY, FMVSS, RH, SPLIT PLATFORM	REF	S2036	46258	
4C *	HANDRAIL ASSY, FMVSS, RH	1	S2003-F	32483	
*	HANDRAIL ASSY, FMVSS, RH		S2005-F	32483	
5	KIT, BUCKLE ASSY, w/ SWITCH	1		22017	
6	SCREW, PAN HEAD, 10-24 X 3/4 (BAG OF 10)	1		15957	
7	SCREW,HEX, 5/16-18 X 3/4 SST (BAG OF 10)	1		17508	
8	SCREW, HEX HEAD, 5/16-18 X 1.0, SST (BAG OF 10)	1		19706	
9	SCREW, PHP, 8TEK X 3/4 (BAG OF 10)	1		15911	
10	BUSHING, SNAP-IN	1		28-26-077	
11	CABLE TIE, STD X 1.5 DIA, BLACK (BAG OF 10)	1		25697	
12	TERMINAL, SLIP, F, 14-16, FULLINSUL (BAG OF 10)	1		13318	
13	TERMINAL, SLIP, M, 22-18, FULLINSUL	1		26359	
14	RESTRAINT BELT, ANGLED, W/SLIDER, SEE ITEM 14A KIT	1		16630	
14A *	KIT, RESTRAINT BELT, ASSY, 34"	1		16092	
15	LIGHT ASSY, PLATFORM	2		32478	
16	SPACER, HANDRAIL	1		V2-AC-063	
17	HARNESS, RESTRAINT BELT, LH	1		32455	
18	HARNESS, RESTRAINT BELT, RH	1		33808	

NOTE: \* Item or configuration not shown.

## **APPENDIX 1 LIFT SPECIFICATIONS**

9	S-SERIES PUBLIC USE V	WHEELCHAIR LIFT
Power	65 amp avg/cycle, 1250 psi .5 amp avg/cycle, 1250 psi	Manual backup-up Manual backup-down

Rated load capacity, max .....800 lbs Manual backup-up ...... hand pump Manual backup-down.....pressure release valve Lift weight..... approx 340 - 370 lbs



DIMENSIONS (inches/millimeters)										
	Α	В	С	D	E	F	G	Н		
MODEL	Stationary frame width	Height (folded)	Installation depth (folded)	Usable platform width	Usable platform length	Floor-to- ground travel	Traveling frame width	Clear entry width		
S2005	47 / 1194	55 / 1397	14 / 356	32 / 813	51 / 1295	42 / 1067	40 / 1016	32 / 813		
S2010	49 / 1245	55 / 1397	14 / 356	34 / 864	54 / 1372	42 / 1067	42 / 1067	34 / 864		
S5505	47 / 1194	58 / 1473	14 / 356	32 / 813	51 / 1295	51 / 1295	40 / 1016	32 / 813		
S5510	49 / 1245	58 / 1473	14 / 356	34 / 864	54 / 1372	51 / 1295	42 / 1067	34 / 864		
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