II. INSTALLATION

This chapter contains instructions for installing the RICON S-Series and K-Series 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 lift applications, 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 (32ii399e) 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 and K-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)
S2005	40.5 [1029]	55.0 [1397]	42.0 [1067]
S2010	43.0 [1092]	55.0 [1397]	42.0 [1067]
S5005	40.5 [1029]	55.0 [1397]	48.0 [1219]
S5010	43.0 [1092]	55.0 [1397]	48.0 [1219]
S5505	40.5 [1029]	58.0 [1473]	51.0 [1295]
S5510	43.0 [1092]	58.0 [1473]	51.0 [1295]
K2005	40.5 [1029]	55.0 [1397]	37.0 [940]
K2010	43.0 [1092]	55.0 [1397]	37.0 [940]
K5005	40.5 [1029]	55.0 [1397]	43.0 [1092]
K5010	43.0 [1092]	55.0 [1397]	43.0 [1092]
K5505	40.5 [1029]	58.0 [1473]	48.0 [1219]
K5510	43.0 [1092]	58.0 [1473]	48.0 [1219]

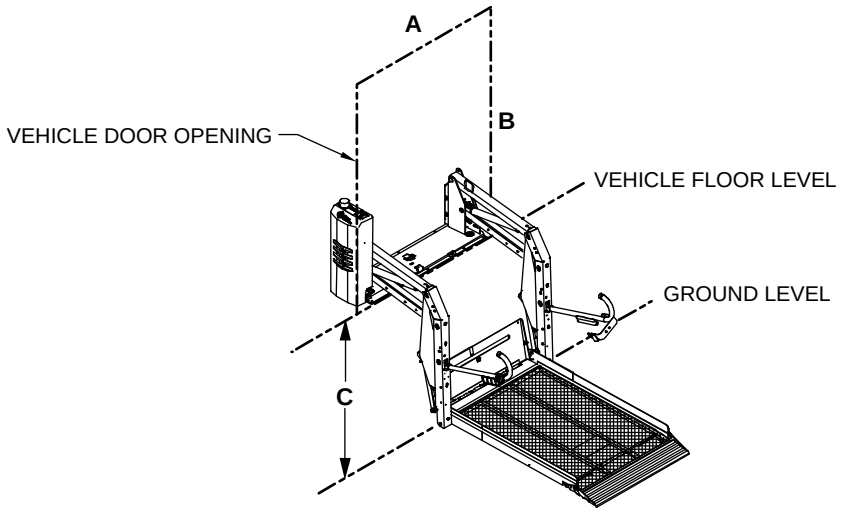


FIGURE 2-1: DOOR OPENING REQUIREMENTS

b. **VEHICLE FLOOR STRENGTH REQUIREMENTS**

Rated Load: 800 lbs Standard Load: 600 lbs Standard Load Test: 1800 lbs

MODEL	L1	L2	A *	B **	C
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 (column A) indicate tensile load pulling upward at the inboard edge mounting holes of the base plate.

****** Positive numbers (column B) indicate compressive load pushing floor downward at the outboard edge mounting holes of the base plate.

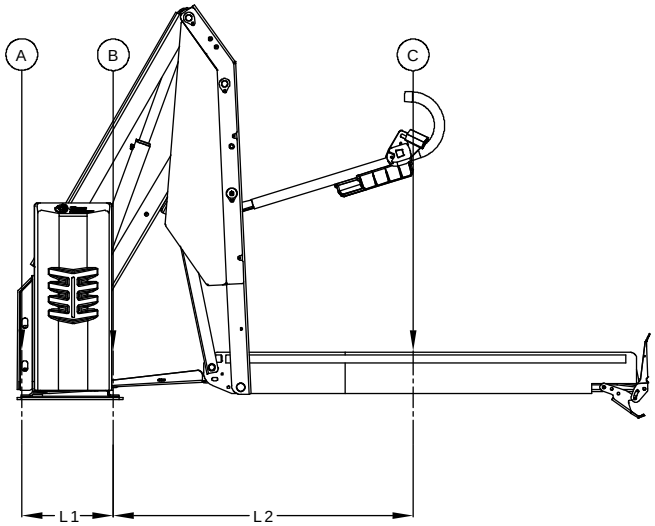


FIGURE 2-2: FLOOR STRENGTH REQUIREMENTS

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.

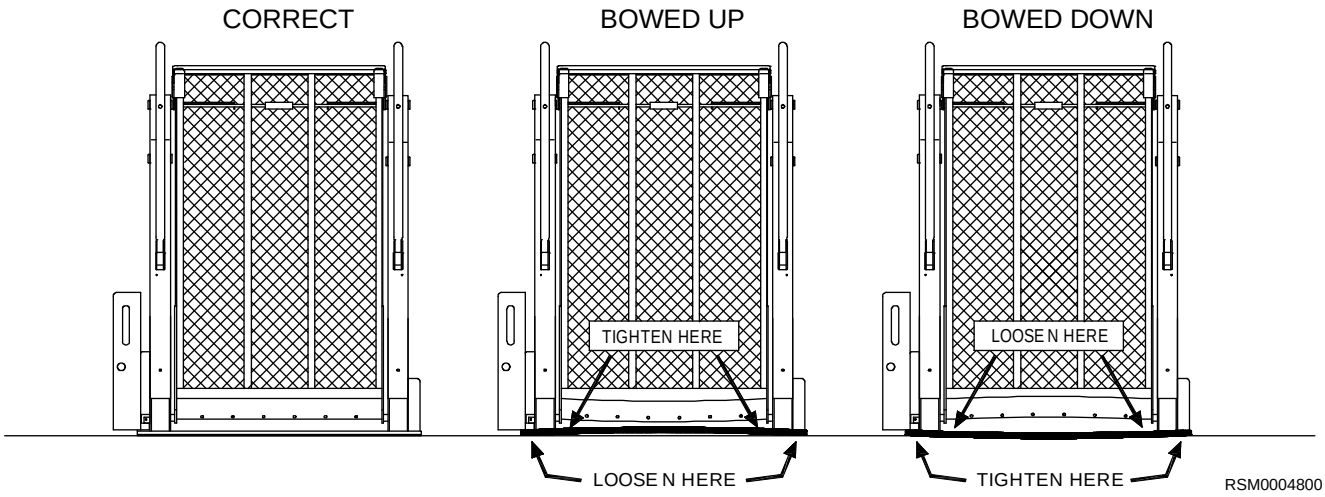


FIGURE 2-3: FORD VAN CLAMPING BAR ARRANGEMENT

- 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.

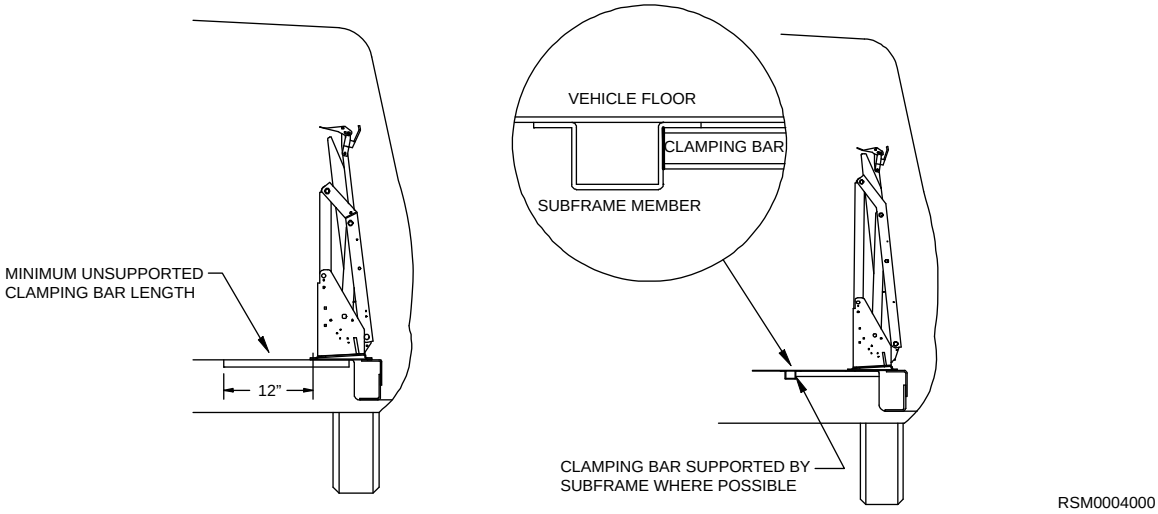


FIGURE 2-4: FORD VAN CLAMPING BAR ARRANGEMENT

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.

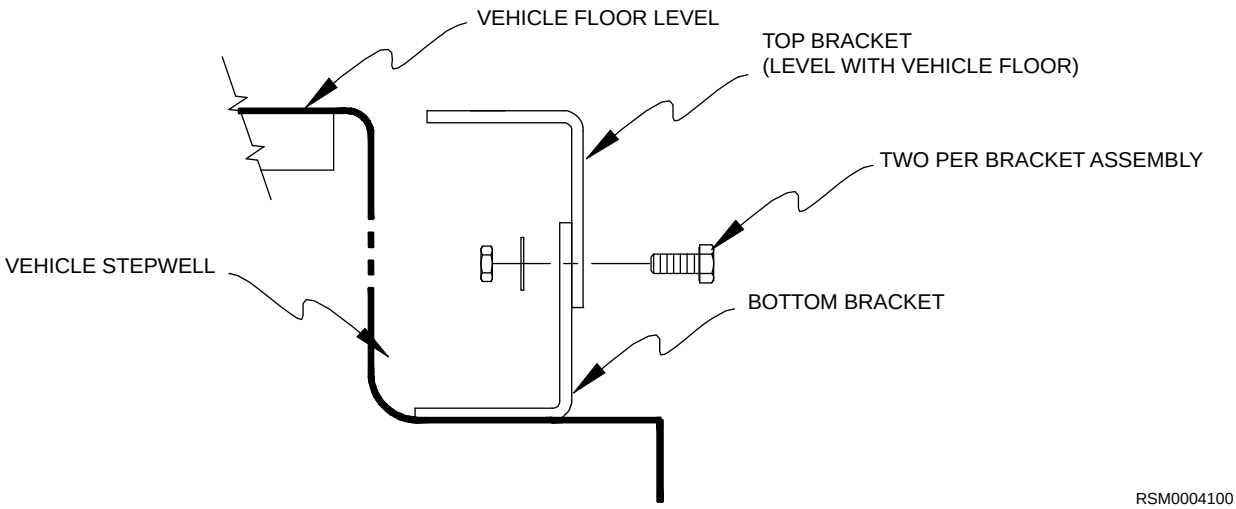


FIGURE 2-5: STEPWELL BRACKET

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.

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.

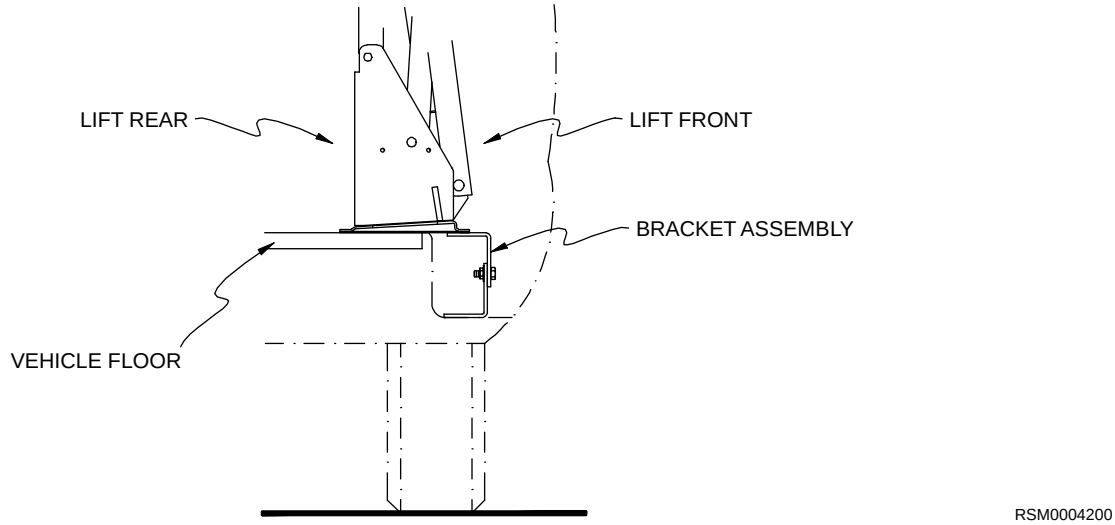


FIGURE 2-6: BRACKET ASSEMBLY

e. Fasten Baseplate to Floor:

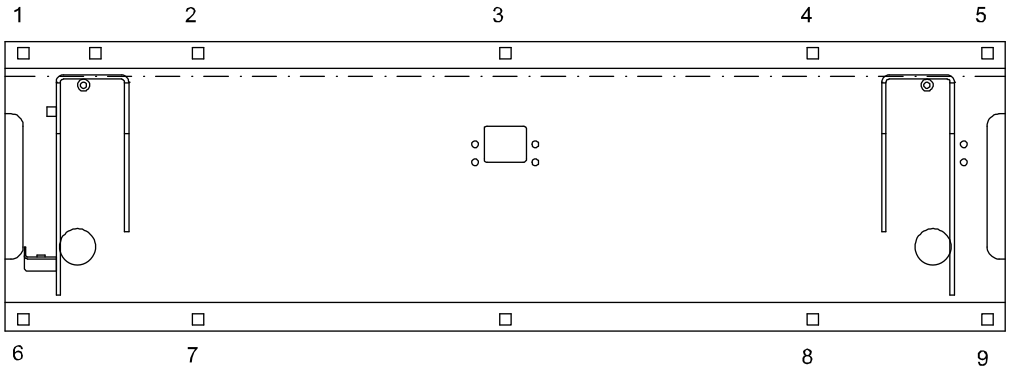
NOTE: If Ricon power door operators are used, install them first. They may influence location of lift.

- æ Be certain baseplate is flush against vehicle floor. The baseplate may be slightly offset in door opening to provide proper clearance for passenger seats.
- æ Before drilling, verify that lift position does not interfere with closing of vehicle doors or operation of passenger seats.
- æ 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:

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

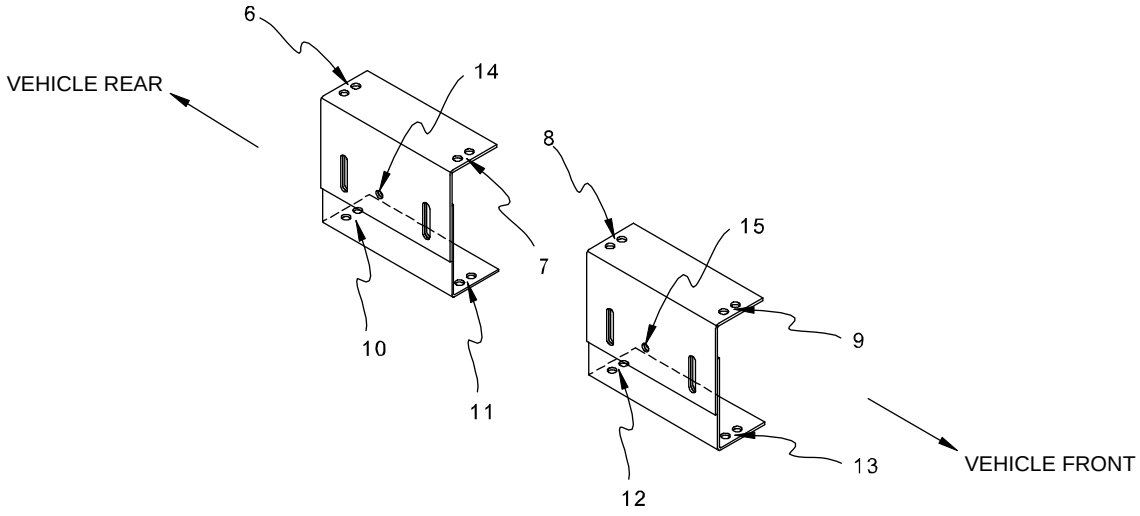
1) Refer to **Figure 2-7**. Mark and drill five 25/64" baseplate mounting holes (1, 2, 3, 4, and 5) through vehicle floor. (On Dodge and GM vans, you must drill through vehicle floor and subframe).
2) Place five 8" x 3/8" carriage bolts (use 4" x 3/8" bolts on Ford vans) into holes to secure position.



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FIGURE 2-7: VAN BASEPLATE HOLES

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.



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FIGUR 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 eight carriage bolts (six on Dodge van with sliding door) to 28 ft. lbs. in the appropriate sequence:

DODGE WITH SWING DOORS, ALL FORD AND GM VANS **3, 1, 2, 4, 5, 6, 7, 8, 9**

DODGE WITH SLIDING DOORS **3, 1, 2, 4, 5, 6, 9**

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.

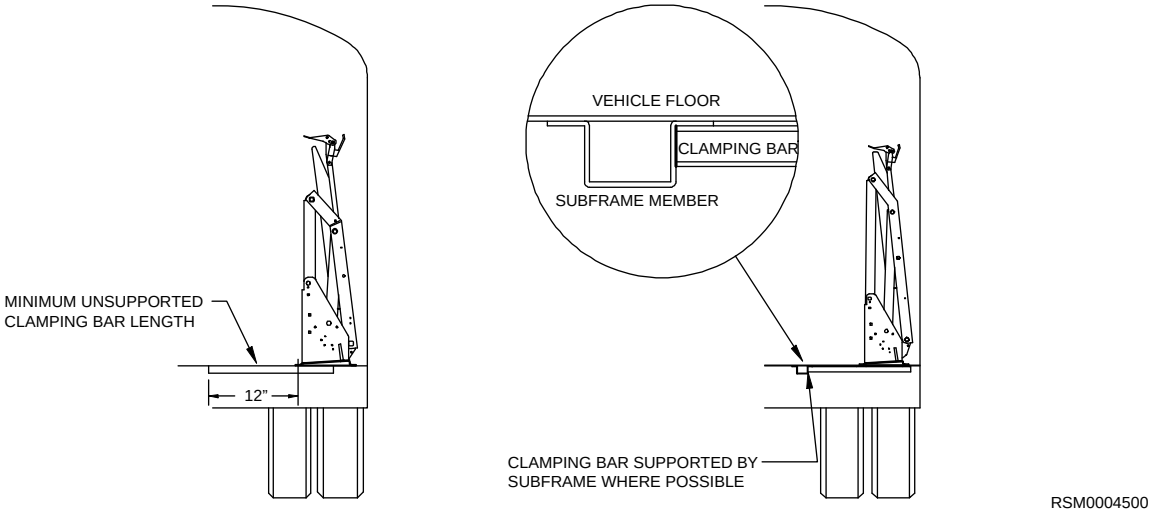


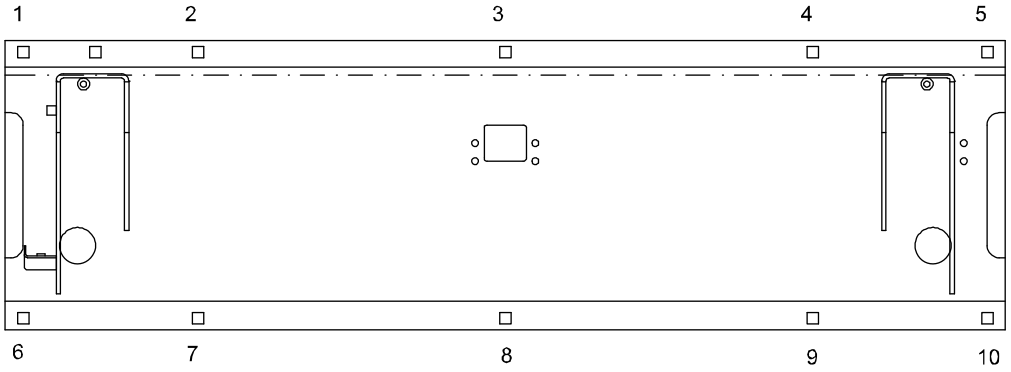
FIGURE 2-9: BUS CLAMPING BAR ARRANGEMENT

⚠ 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.



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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 eight carriage bolts to 28 ft. lbs. in the following sequence:

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

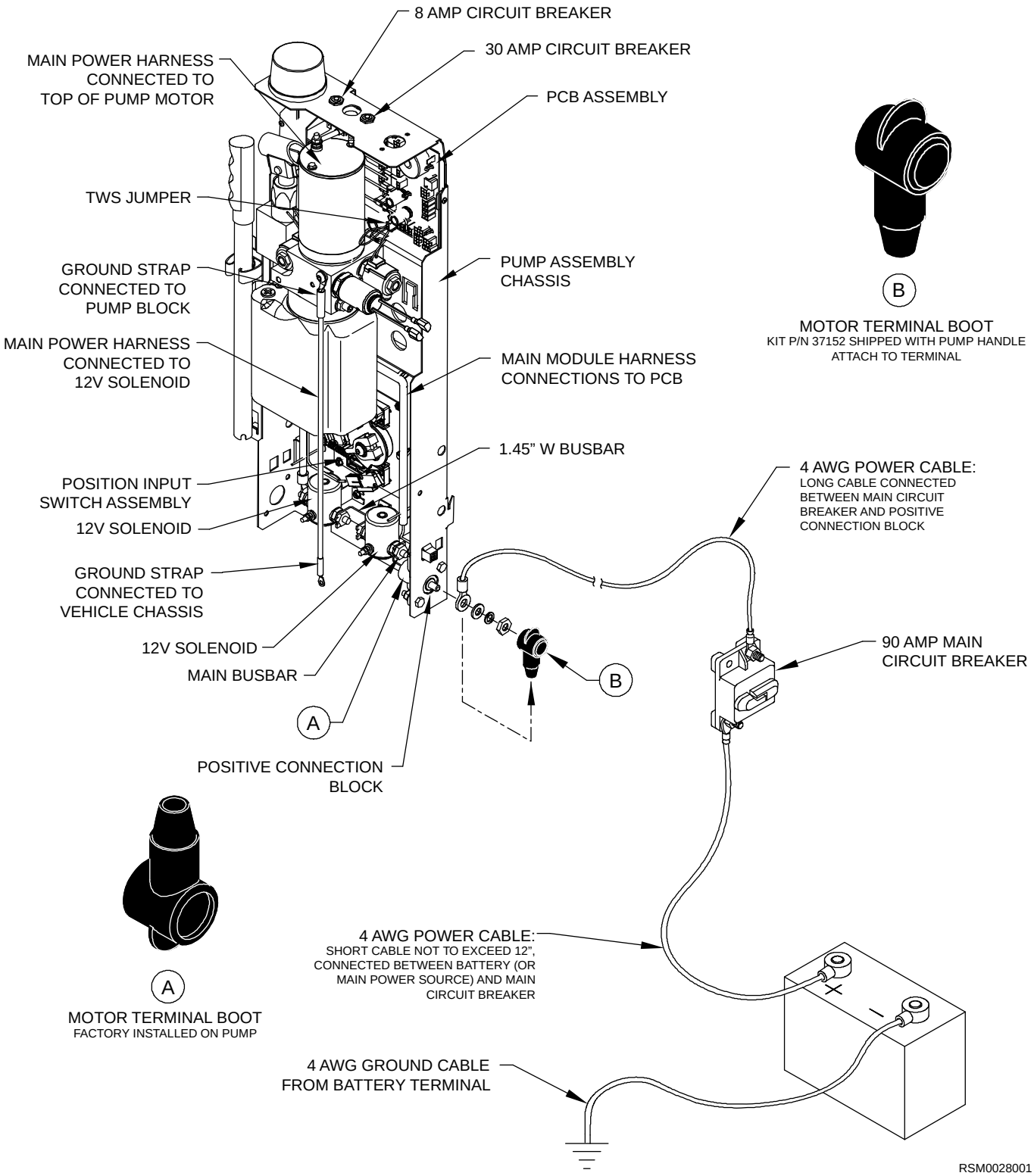


FIGURE 2-11: ELECTRICAL INSTALLATION DIAGRAM

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.

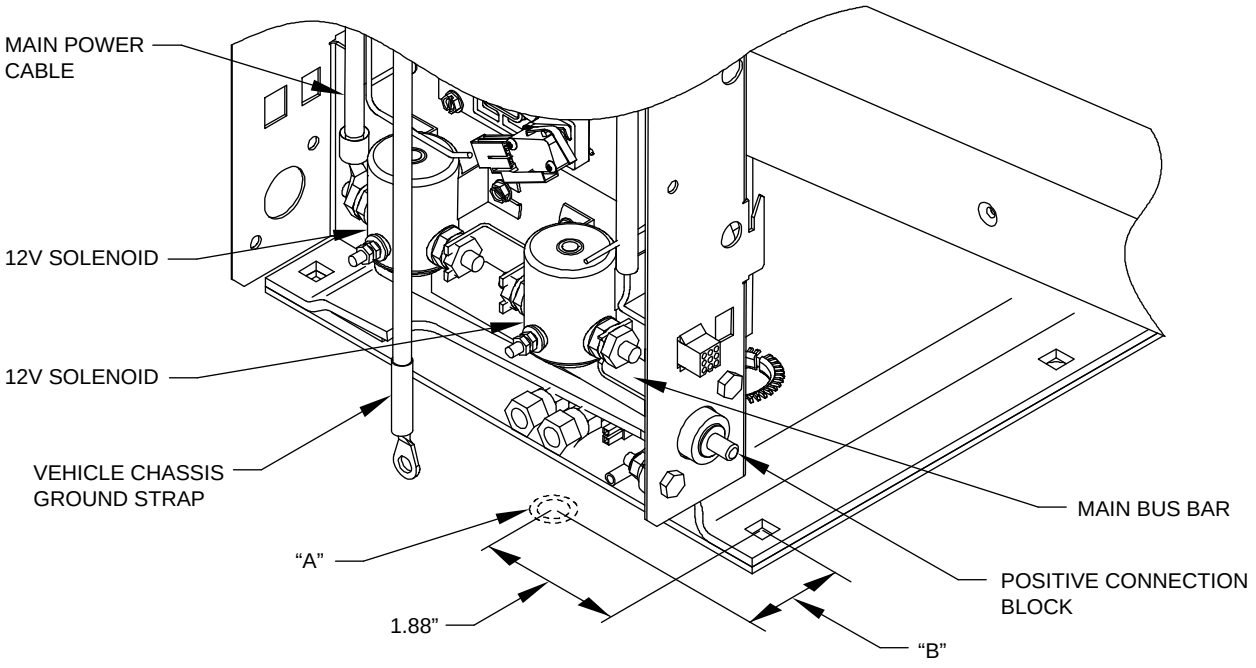
2. ROUTE AND CONNECT MAIN POWER CABLE

⚠ 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 **Figure 2-12**. Drill a hole through the vehicle floor near the positive connection block (stud on the side of the pump chassis that is attached to the main bus bar) so power cable can be connected. Drill hole where the installed pump cover will cover it.



"A": 0.75 DIAMETER FOR FLOOR METAL
1.00 DIAMETER FOR OTHER MATERIAL

"B": 30" PLATFORM WIDTH = 1.25"
32" PLATFORM WIDTH = 2.25"

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FIGURE 2-12: POWER CABLE ACCESS HOLE

b. 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. Tie power cable to vehicle chassis, using cable ties. Avoid pinch points, exhaust system, moving parts, and brake lines. Verify that power cable is secure.

⚠ CAUTION

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

e. 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 connected to positive connection block.

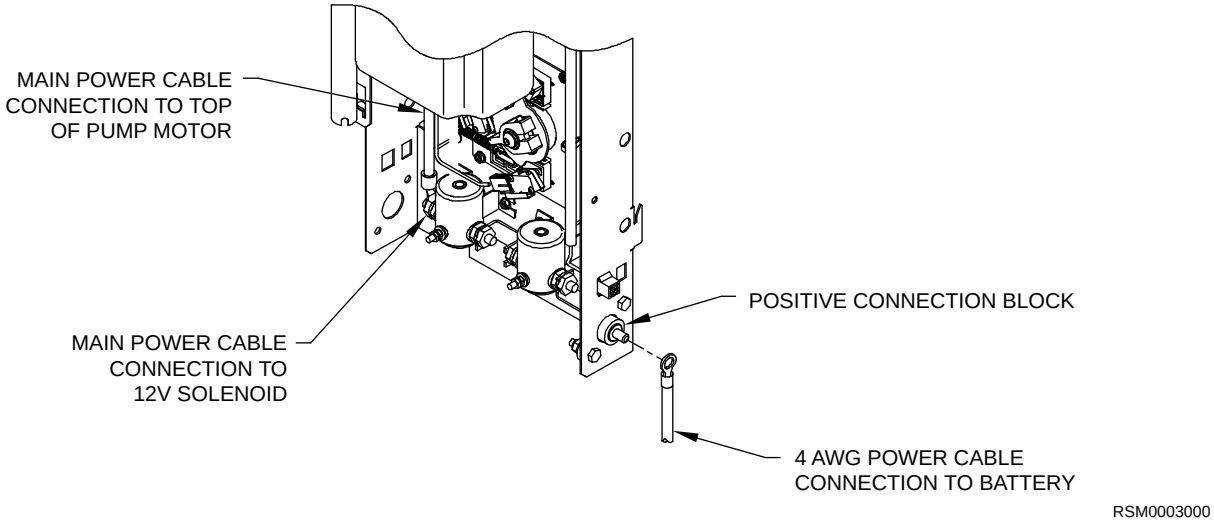


FIGURE 2-13: CABLE ROUTING

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

3. GROUND CONNECTIONS

a. Refer to **Figure 2-14**. Locate 4GA ground cable that is pre-installed then install ground cable to vehicle chassis. Avoid pinch points, exhaust system, moving parts, and brake lines. Verify that ground cable is secure.

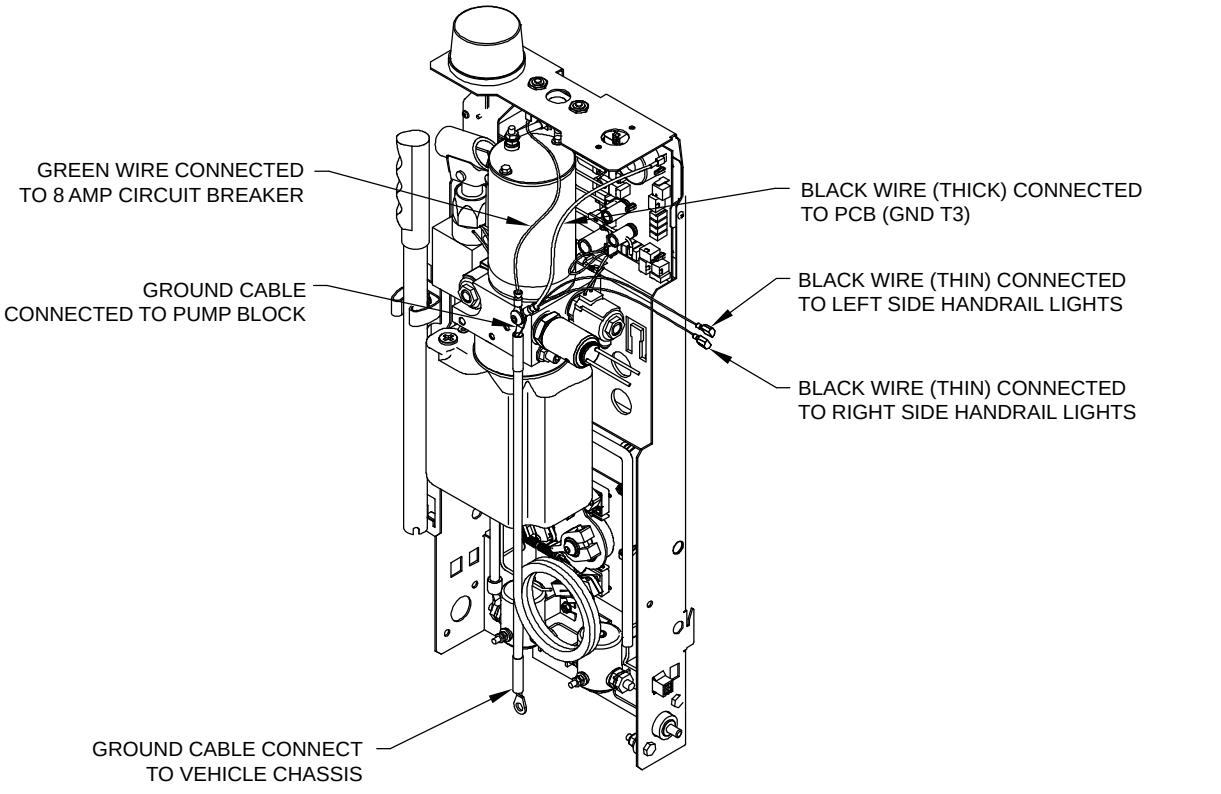


FIGURE 2-14: GROUND CABLE

b. Refer to **Figure 2-14**. Ensure other wires that are fasted with the ground cable are secure and remain connected after installation.

c. **12 VDC Systems**

12 VDC 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.

d. **24 VDC Systems**

1) Ricon recommends that a dedicated ground cable be used in 24 VDC 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.

4. CONTROL PENDANT

a. Refer to **Figure 2-15**. Remove pump cover to gain access to PCB assembly then insert six-pin connector with cord through pump cover and chassis assembly openings.

b. Refer to **Figure 2-15**. Install six pin connector of hand-held control pendant to J23 input connector of PCB.

c. Slide pump cover back onto pump assembly chassis.

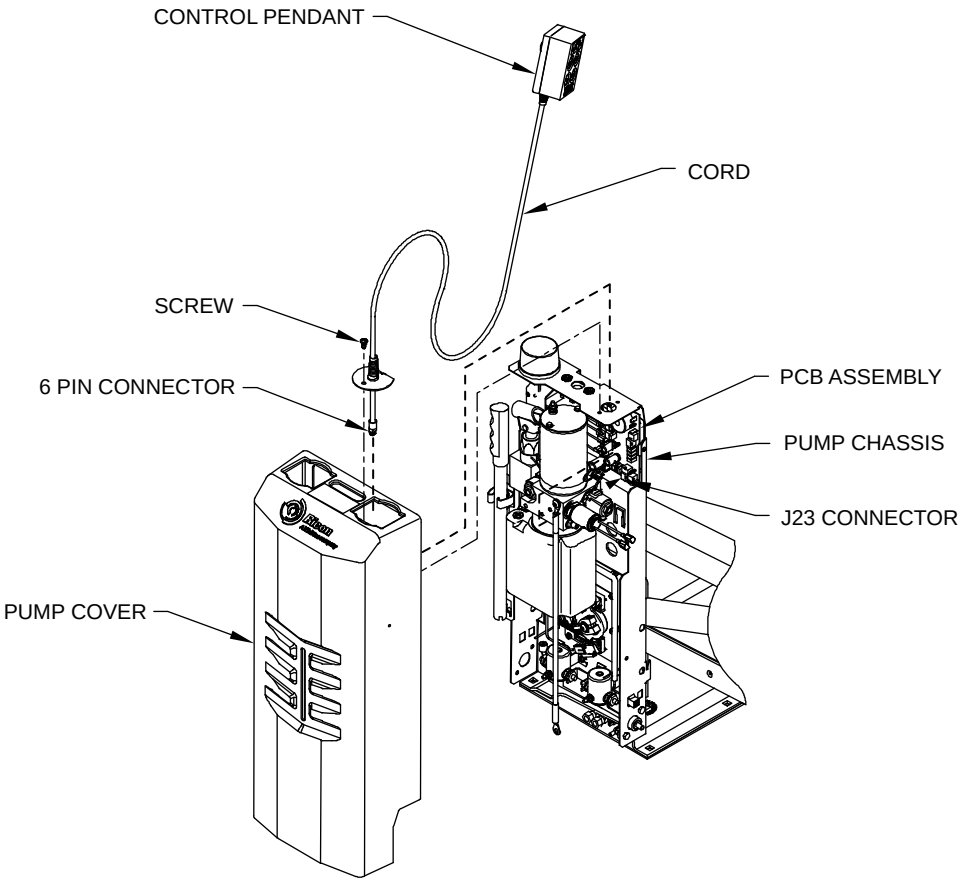


FIGURE 2-15: CONTROL PENDANT

d. Refer to **Figure 2-15**. Install screw to secure control pendant bracket to pump assembly chassis.

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

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 and K-Series lifts provide 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: A 30-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 30 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.

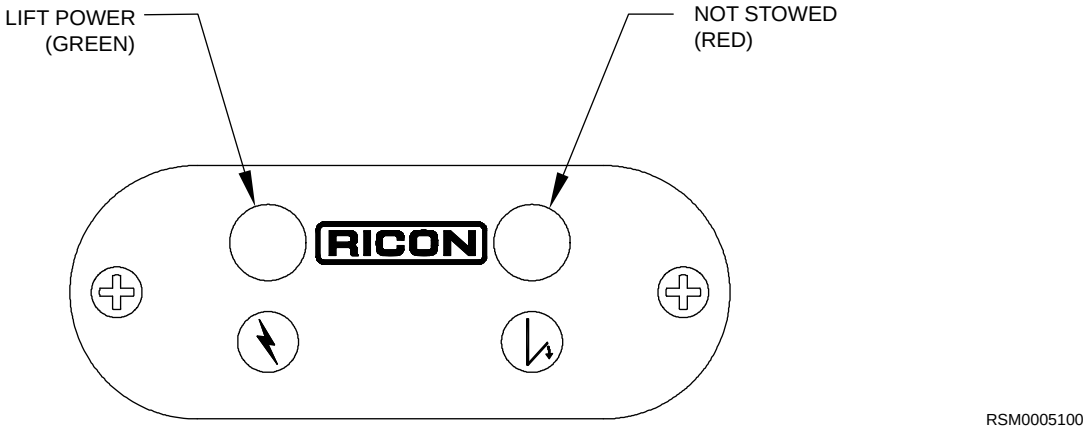


FIGURE 2-16: INTERLOCK DISPLAY PANEL

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.)

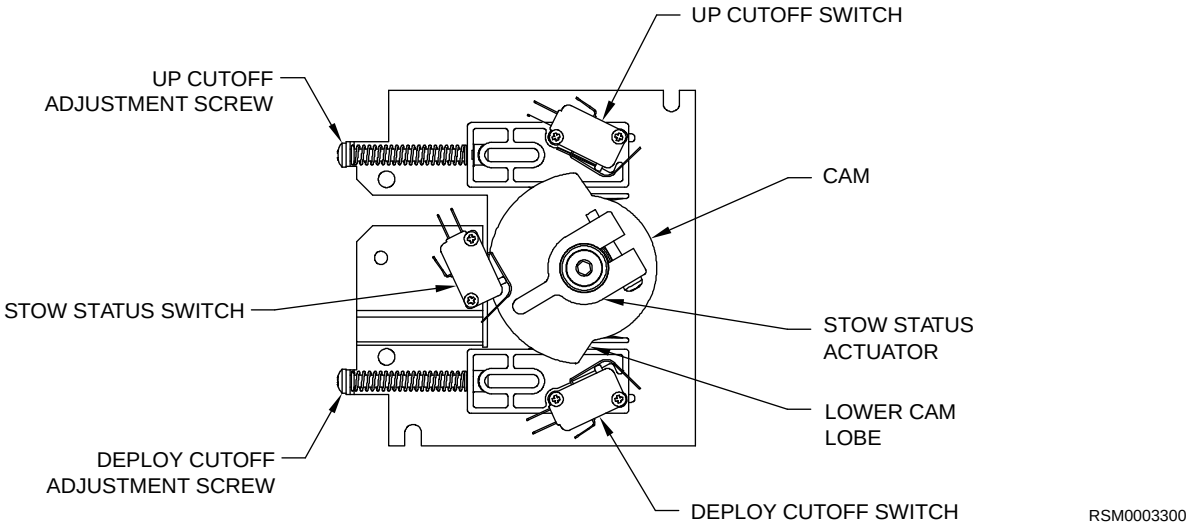


FIGURE 2-17: LIMIT SWITCH ADJUSTMENT DIAGRAM

a. Fully DEPLOY platform.
b. Adjust UP CUTOFF ADJUSTMENT SCREW and DEPLOY CUTOFF ADJUSTMENT SCREW 6-8 turns **counterclockwise** (CCW) 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** (CCW), 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** (CCW), 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** (CW)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.

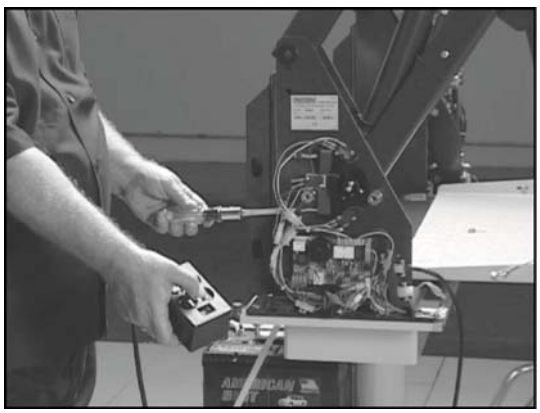


FIGURE 2-18: LIMIT SWITCH ADJUSTMENT DIAGRAM

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** (CW) 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.)

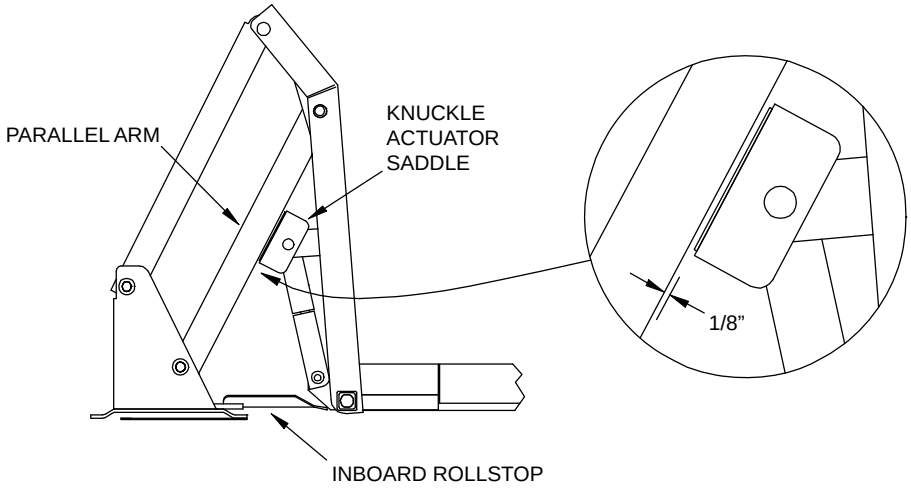


FIGURE 2-19: LIMIT SWITCH ADJUSTMENT CLEARANCE

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 CAM (CCW).	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 (CW).	Test lift. Pump should cutoff when lift is folded tight.
Up cutoff adjustment screw	Lift stops low.	Adjust screw (CW).	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 (CCW).	
Deploy cutoff adjustment screw	Lift stops low.	Adjust screw (CCW).	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 (CW).	
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 2-20**. 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.

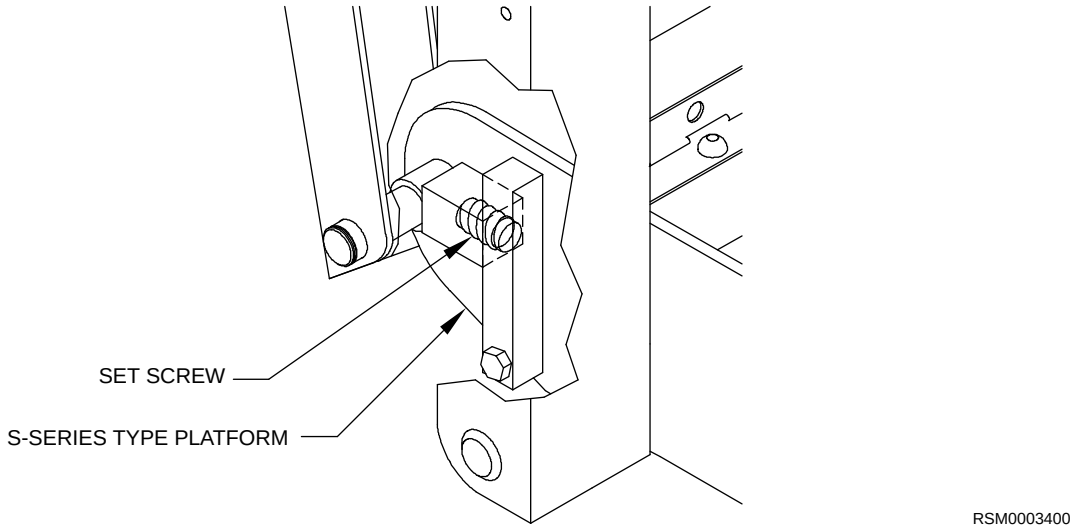


FIGURE 2-20: S/K-SERIES PLATFORM SET SCREWS

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

3. K-SERIES PLATFORM FOLDING LINKAGE ADJUSTMENT

For K-Series with split platforms, the front portion of the platform is connected to the rear portion with a hinge. The front portion is folded with linkages located at the right and left sides of the platform. The length of the linkage might require adjustment after installation of the lift or after disassembly of the platform.

NOTE: Perform the PLATFORM TILT ADJUSTMENT procedure before adjusting the linkage.

a. Deploy and lower the platform to a position about halfway between floor level and ground level.

b. Refer to **Figure 2-21**. Inspect the gaps on both sides of the platform folding joints. The gaps must be uniform. If the gaps are not uniform, adjustment is required.

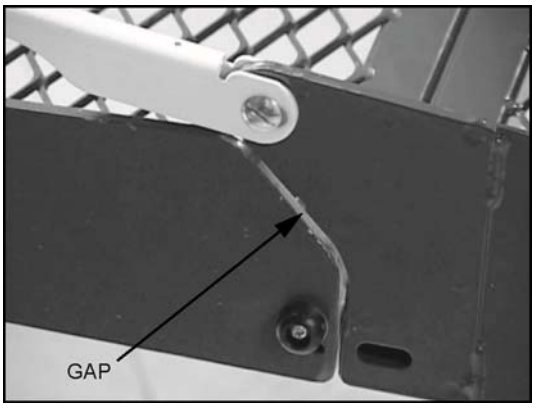


FIGURE 2-21: S/K-SERIES PLATFORM SET SCREWS

c. Refer to **Figure 2-22**. Loosen the jam nuts (right and left sides) and use the adjusters to set the length of the linkages so that the front and rear portions are in the same plane; the two surfaces of the platform portions must be flat without any apparent folding along the hinge.

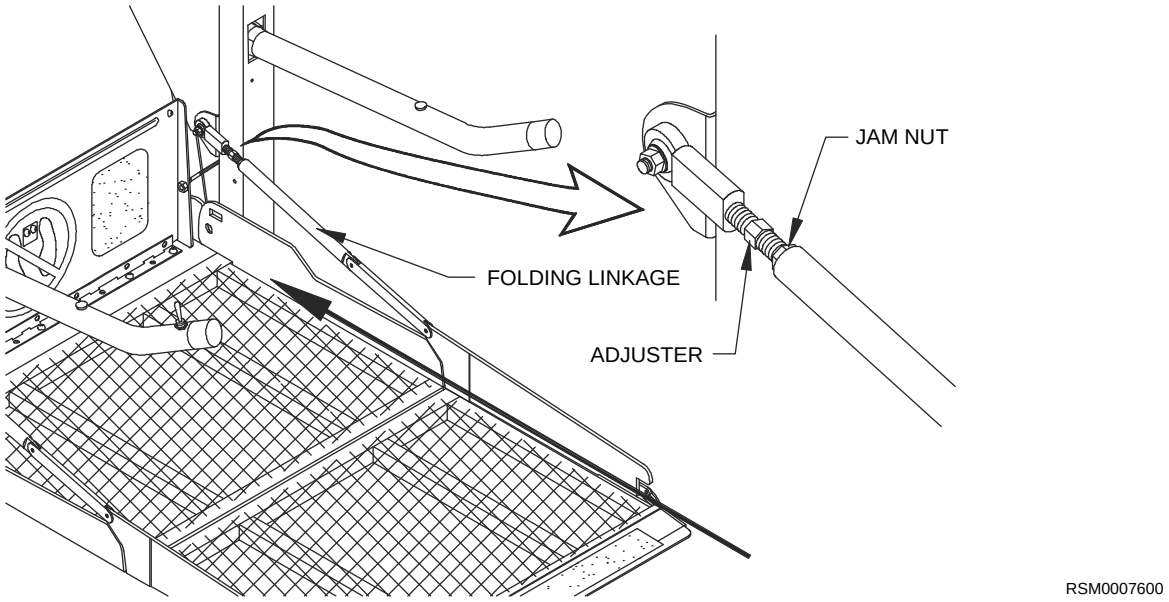


FIGURE 2-22: ADJUSTMENT HARDWARE FOR PLATFORM FOLDING LINKAGE

d. Verify that the tension of both linkages is the same by sighting along the outer edge of the platform (arrow in figure). Tighten jam nuts.

e. Lower platform until it settles on the ground. Verify that a slight amount of slack is present in both linkages. If either linkage is under tension, repeat steps a and b.

4. K-SERIES OUTER ROLLSTOP BARRIER ADJUSTMENT

NOTE: This procedure is done to tighten the outer rollstop barrier by adjusting the universal platform folding brackets that are attached to the vertical arms on a K-Series lift.

a. Fully stow the platform and check to see if there is movement of the outer rollstop barrier. If there is sufficient movement, deploy the platform to floor level.

b. Refer to **Figures 2-23**. Turn the screws to loosen the folding bracket. Slightly move the bracket down to add pre-load on the platform link assembly.

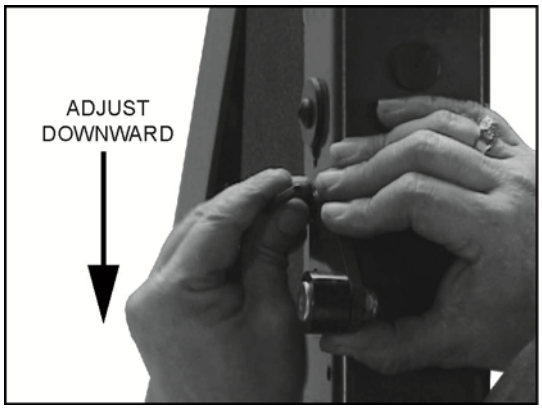


FIGURE 2-23: PLATFORM FOLDING BRACKET

c. Tighten the screws then repeat for the opposite folding bracket.

d. Stow the platform and verify that the outer rollstop barrier securely folds and locks with no movement.

5. PLATFORM PRESSURE SWITCH CHECK AND ADJUSTMENT

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

a. Refer to **Figure 2-24**. Deploy and lower platform to ground.

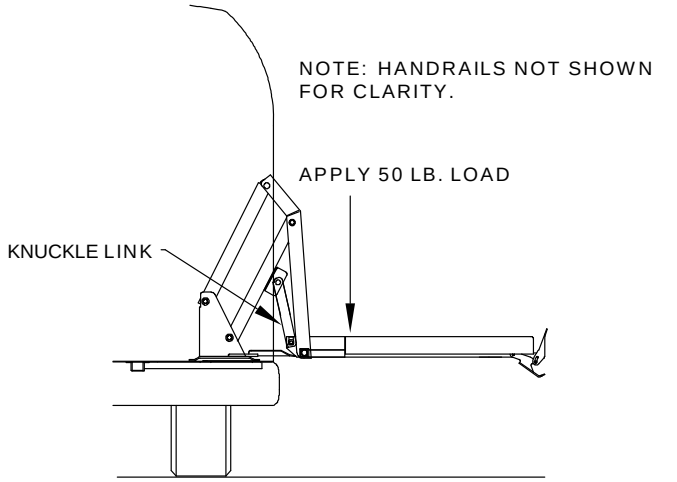


FIGURE 2-24: PRESSURE SWITCH TEST AT FLOOR LEVEL

NOTE: Weight must be 50 lbs. and placed 6 inches from rear edge of platform mesh as shown in **Figure 2-25**.

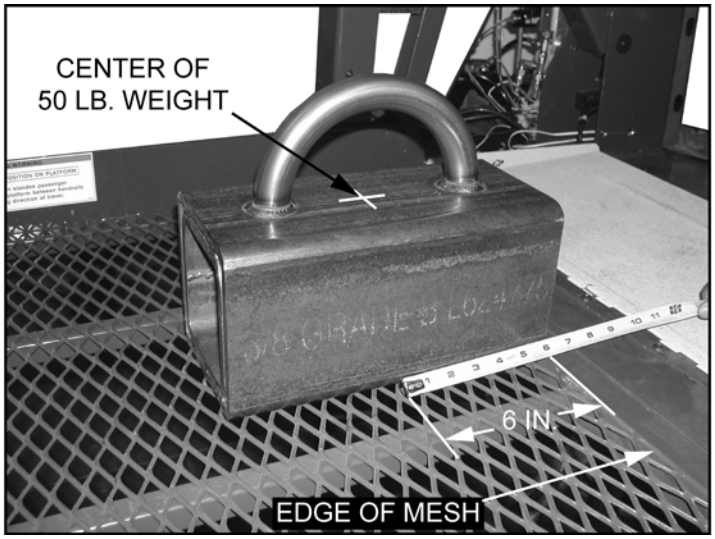


FIGURE 2-25: 50 LB. WEIGHT PLACEMENT ON PLATFORM

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 2-26**. 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.

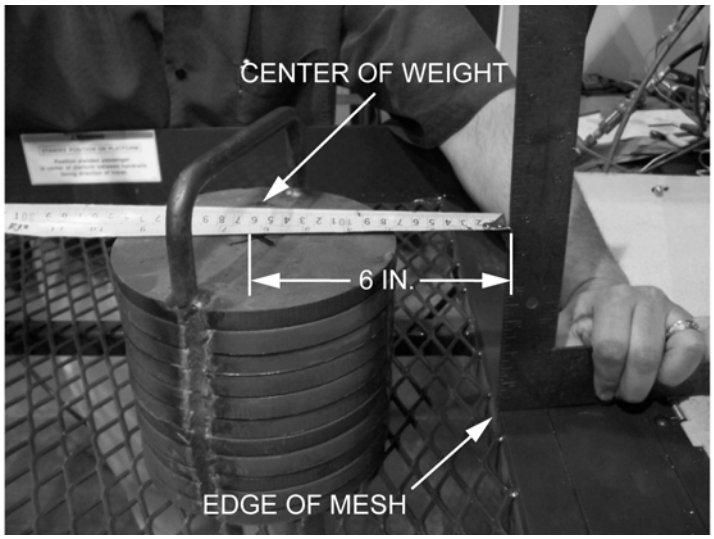


FIGURE 2-26: ALTERNATE 50 LB. WEIGHT

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 2-27**.

f. Refer to **Figure 2-27**. Loosen the locking set screws from the hydraulic pressure switch, using a 5/64" hex wrench to allow adjustment of the hydraulic pressure switch.

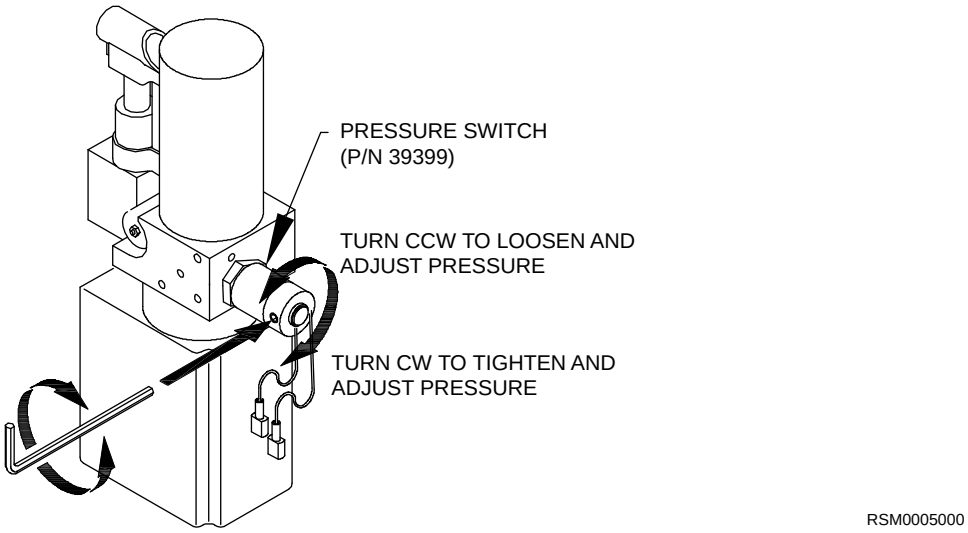


FIGURE 2-27: PRESSURE SWITCH ADJUSTMENT (P/N 39399)

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 600 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.

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 (Public Use Lift Only).
		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).

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