



INSTALLATION INSTRUCTIONS S-SERIES INSTALLATION KIT #58770 FOR 2016 MERCEDES SPRINTER, REAR ENTRY INSTALLATION

- Be certain that these supplemental instructions are read and understood completely before installation is attempted. You should also refer to the Service/Owner Manual for additional installation instructions and safety precautions.
- Check contents of this kit and notify Ricon immediately of any missing parts. Claims for damages that have occurred during shipping must be made to the shipper.
- Public use vehicle manufacturers are responsible for complying with the lift lighting requirements in Federal Motor Vehicle Safety Standard No. 404, Platform Lift Installations in Motor Vehicles (49 CFR 571.404).

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- Under no circumstances is maintenance, repair, or adjustment of the product to be performed without the presence of an individual capable of giving aid.
- This lift is driven with hydraulic pressure generated by a hydraulic pump system. The fluid is highly pressurized and possibly very hot. Use extreme caution when doing maintenance and repairs. DO NOT disconnect hoses or fittings when lift is in motion.
- Give immediate attention to all injuries, and administer first-aid, or seek medical attention as necessary.
- Protective eye shields and clothing should be worn during maintenance, repair, and adjustment of the lift.
- Work in a properly ventilated area.
- Check for hidden obstructions before drilling and cutting. Avoid interference with wiring, fuel tank, fuel lines, hydraulic lines, subfloor members, etc.
- Read and understand all instructions before attempting to operate the product.
- Read and understand all instructions before attempting to perform maintenance, repairs, or adjustments to the product.
- Read and comply with warning labels attached to lift.
- Refer to S-Series Service Manual for part numbers of replacement parts mentioned here.

I. INTRODUCTION

The following instructions are intended to cover installation of kit P/N 58770 to accommodate an S-Series lift at the rear entrance of a 2016 Sprinter. This kit can be used for lifts up to 1,000lb rated load.

A. TOOLS REQUIRED

Drill with 7/16" drill bit, 8in or longer
Marker
Torque Wrench capable of 28 ft.-lbs.
Wrench
Recommended: Drill Stand/guide

B. PARTS REQUIRED

Kit P/N: R58770

NOTE: BELOW IS A GUIDELINE TO HELP DETERMINE IF KIT 58770 IS APPLICABLE TO YOUR LIFT INSTALLATION.

APPLICABLE LIFTS	LIFTS NOT APPLICABLE
S20XX	SXX32
S50XX	SXX06
S55XX	SXX40
K55XX	S11XX
	S12XX
	K2XXX

II. S/K-SERIES LIFT INSTALLATION

A. MECHANICAL INSTALLATION

1. PLATE INSTALLATION INTO VAN

⚠ WARNING!
CHECK FOR HIDDEN OBSTRUCTIONS BELOW FLOOR BEFORE DRILLING OR CUTTING.

NOTE: Remove power to the lift prior to commencing installation.

- Remove the spare tire and exhaust hanger from the underside of the vehicle.
- If not already installed, install subfloor into vehicle before beginning lift installation procedure. This will provide the flat surface required for proper installation. Subfloor should be a minimum ¼", high grade plywood.
- Refer to **FIG [1]**. Locate and mark the center bolt in the plastic trim piece of the rear opening.

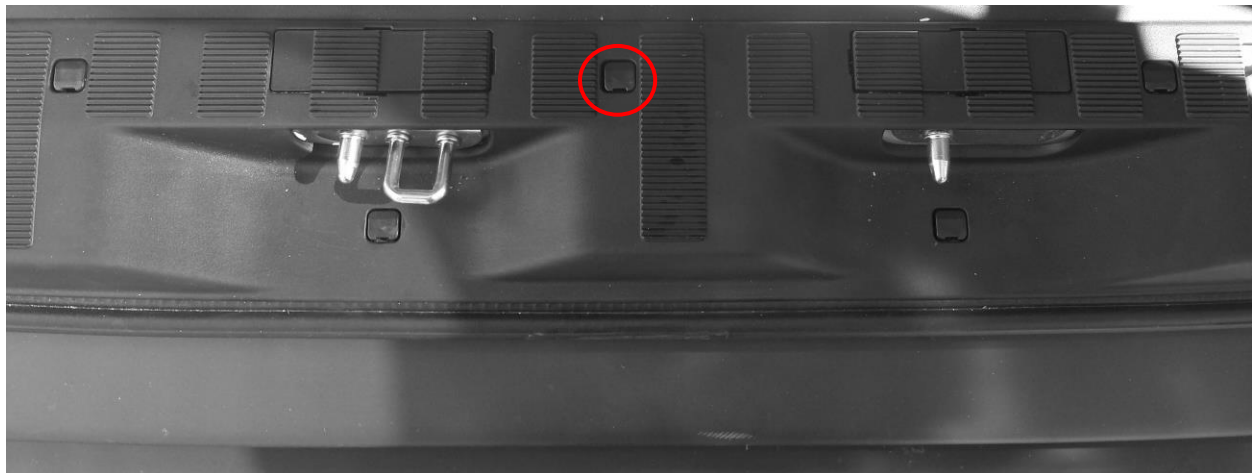


FIG [1]: REAR TRIM CENTER BOLT

- Refer to **FIG [2]**. Locate and mark the center hole of the installation plate P/N 58748.

- e. Refer to **FIG [2]**. Place the plate in the vehicle. Orient the plate so that the countersunk holes face upwards, and the countersunk holes closest to the edge (0.75") are towards the inside of the vehicle.

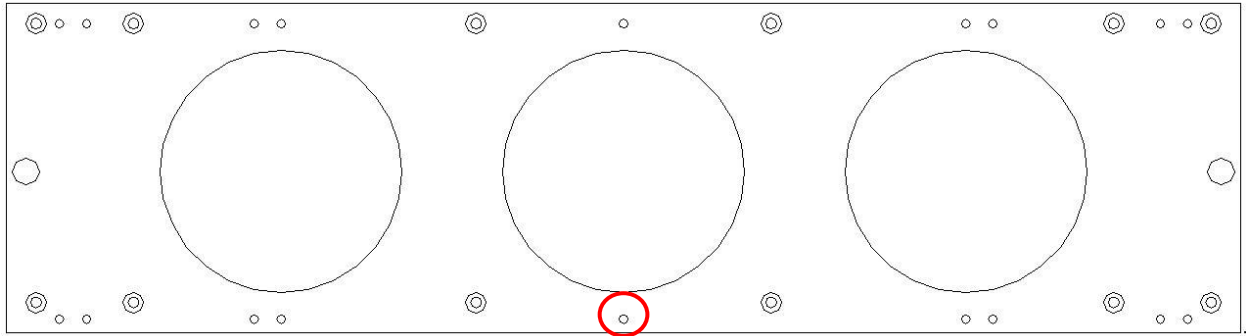


FIG [2]: INSTALLATION PLATE 58748, CENTER LOCATION

- f. Refer to **FIG [3]**. Position the installation plate on the subfloor, 1 ¼" from the edge of the plastic trim, across its entire length, ensuring the centers remain aligned.

NOTE: K-SERIES INSTALLATION; POSITION PLATE 4.45" FROM THE EDGE OF THE PLASTIC TRIM.

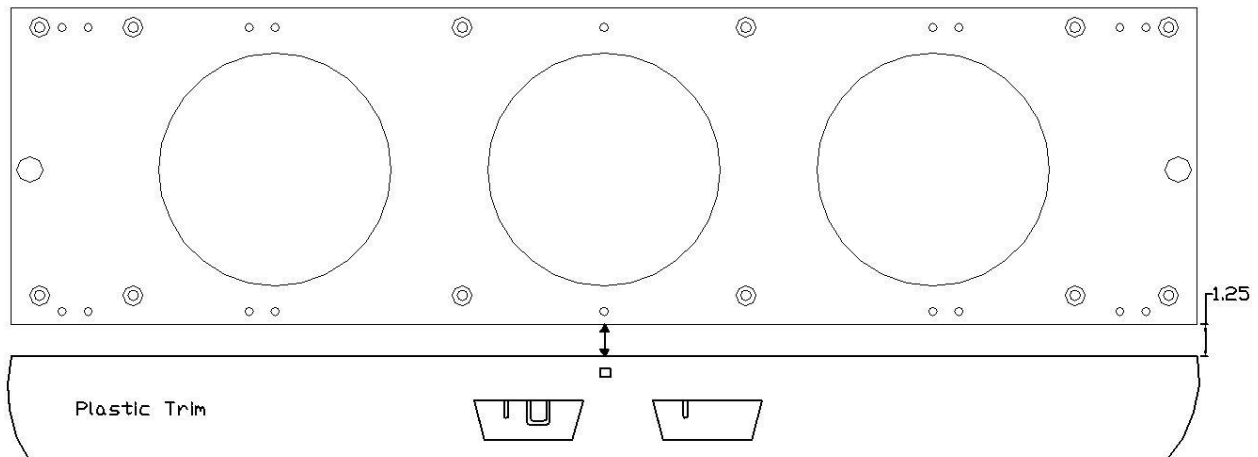


FIG [3]: PLATE ORIENTATION

- g. Using the marker, mark the subfloor with each location for the counter sunk holes circled in **FIG [4]**. Also determine the location of the lifts pump cover (Left or Right side) and mark the appropriate hole at the center of the plate.

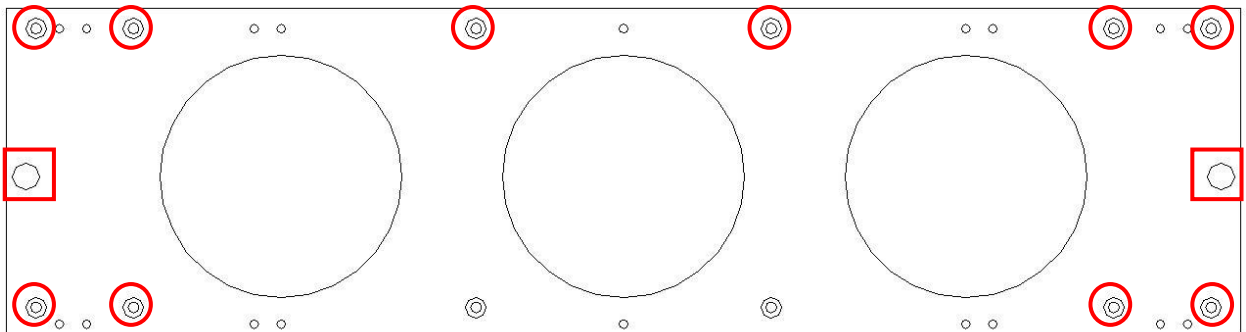


FIG [4]: DRILL LOCATIONS

NOTE: Use of a drill guide is recommended to keep the drill bit perpendicular to the floor when drilling.

- h. Remove the plate. Using a 7/16" drill bit, drill out the appropriate holes. Drill bit must exit through the vehicle chassis in some areas. Deburr as necessary.
- i. Refer to **FIG [5]**. Re-place the plate in the vehicle and install the supplied screws in the following locations;

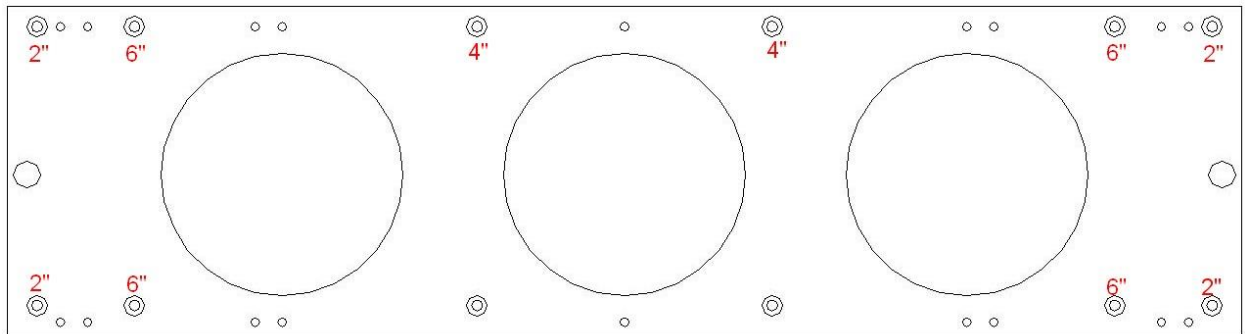


FIG [5]: MOUNTING BOLT LOCATION

- j. Move to the underside of the vehicle. Install and hand tighten the fastening hardware on the 4" long center bolts in the following order; Square plate 58763, Flat Washer, Lock Washer, and 3/8-16 nut.
- k. Refer to **FIG [6]**. Use Installation Bracket 57321 at the inboard corners as shown in the figure below. The bracket must be installed through a small window of the frame

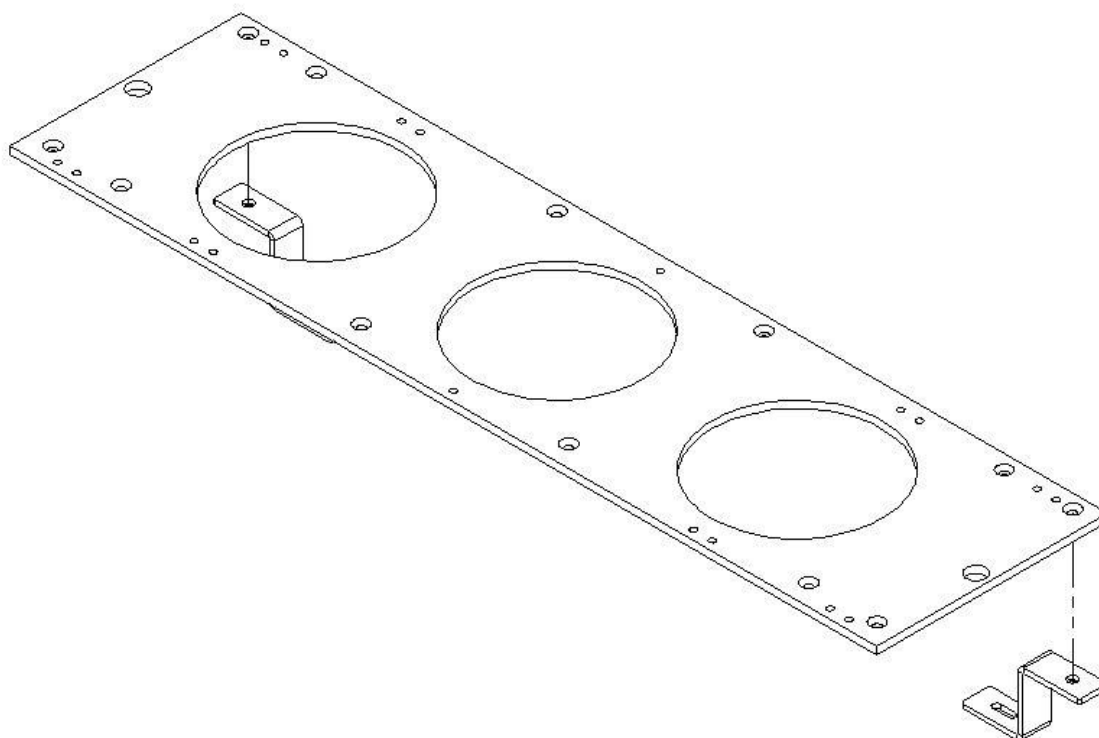


FIG [6]: 57321 INSTALLATION BRACKETS

- I. Ref to **FIG [7]** and **FIG [8]**. Install the installation plates, washers, lock washers, and nuts on the remaining bolts. Torque all fasteners to 28ft.-lbs.

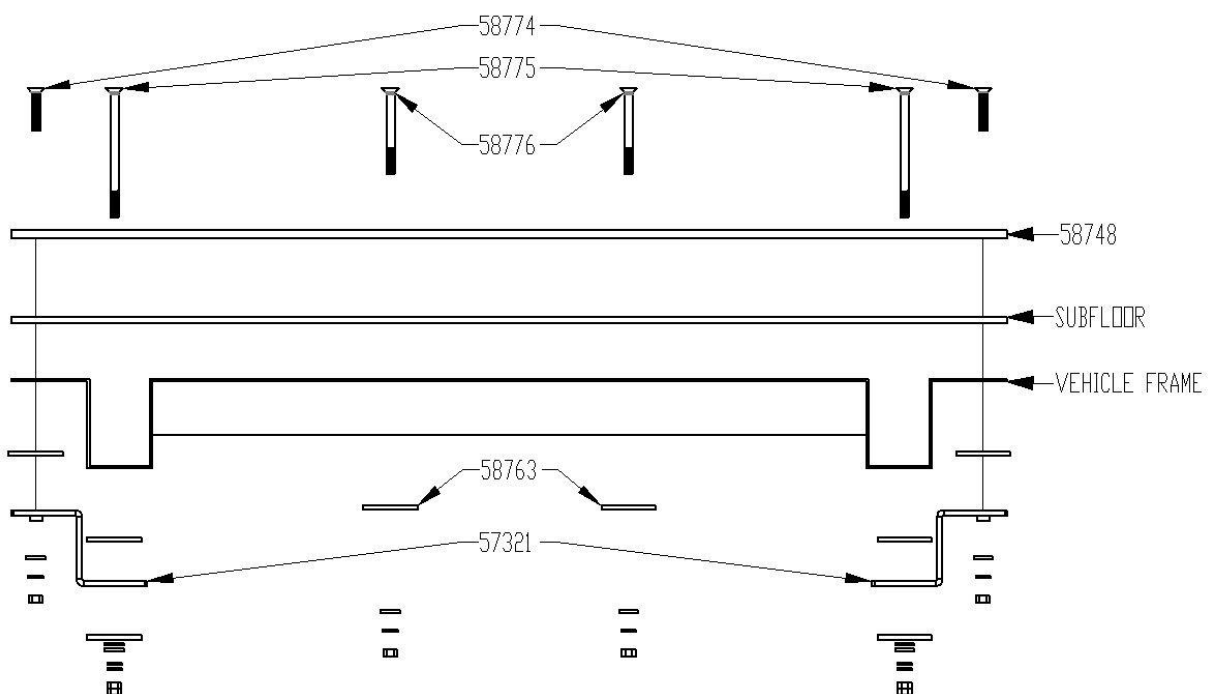


FIG [7]: HARDWARE INSTALLATION DETAIL

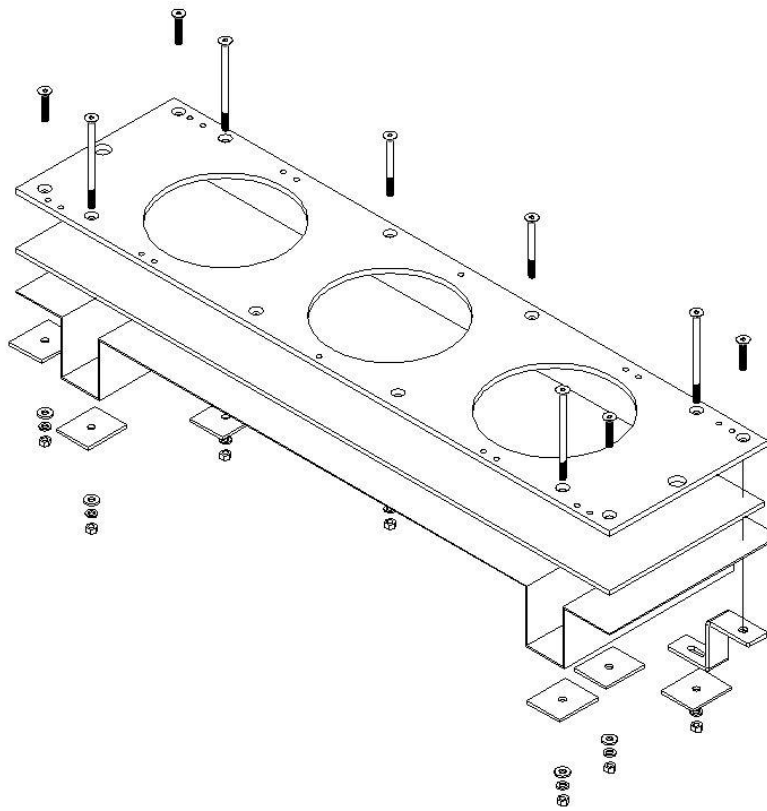


FIG [8]: PLATE INSTALLATION REFERENCE

2. LIFT INSTALLATION

- a. Install the lift onto the plate, aligning the center bolt location of the base plate to the center hole of the plate.
- b. Refer **FIG [9]**. Fasten the lift to the plate using the supplied flanged head bolts. Apply blue Loctite to each bolt and Torque bolts to 28ft.-lbs. Refer to the wheelchair lifts service manual for proper torque pattern.

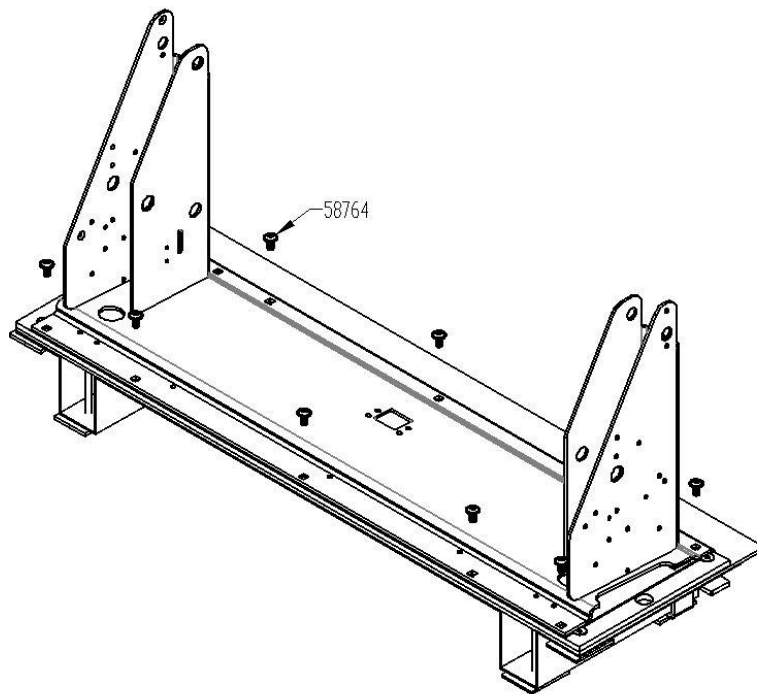


FIG [9]: LIFT INSTALLATION (ONLY BASEPLATE SHOWN FOR CLARITY)

- c. Refer to **FIG [10]**. Install ramp P/N 58762 at the lift threshold area as shown below, making sure to center the ramp between the installation plate.

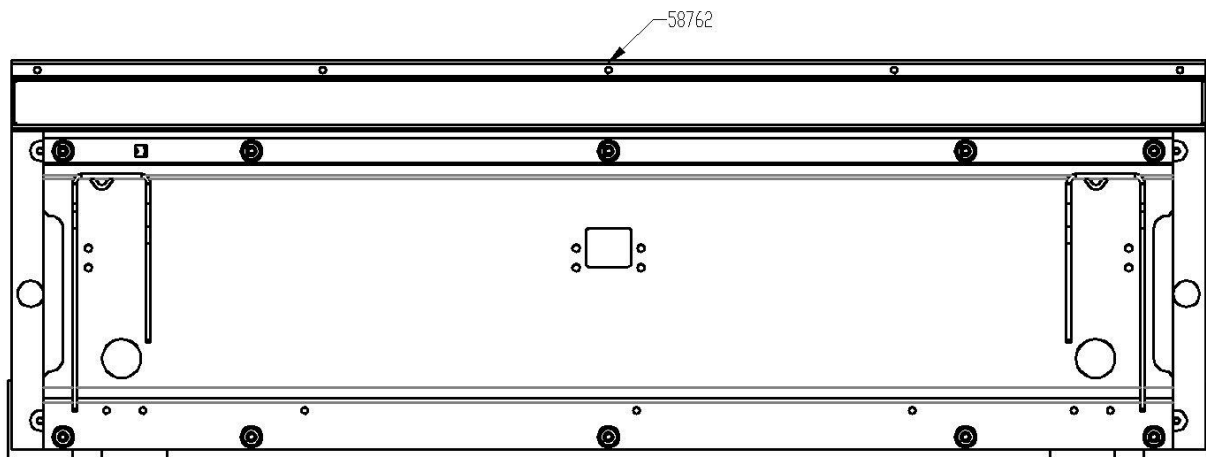


FIG [10]: RAMP INSTALLATION

- d. Fasten the ramp to the subfloor using the supplied wood screws
- e. Complete the installation by installing power, interlocks, etc.

III. SAFETY CHECKLIST FOR VEHICLE MANUFACTURER: S/K-SERIES MODELS

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

COMPLIANT	NON-	SAFETY ITEM
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COMPLIANT		
		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 raise more than 3" above ground if the restraint 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).

A. RATED LOAD CAPACITY OF INSTALLATION BY LIFT MODEL

MODEL	RATED LOAD CAPACITY, MAX
S2000 SERIES	800 POUNDS (363KG)
S5000 SERIES	800 POUNDS (363KG)
S5500 SERIES	800 POUNDS (363KG)
S2000FF SERIES (TITANIUM™)	1,000 POUNDS (454KG)
S5000FF SERIES (TITANIUM™)	1,000 POUNDS (454KG)

NOTES