



INSTALLATION INSTRUCTIONS
S-SERIES & K-SERIES INSTALLATION KIT #57870 FOR
2014 FORD TRANSIT, REAR DOOR 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 & K-Series Service Manual for part numbers of replacement parts mentioned here.

I. INTRODUCTION

The following instructions are intended to cover installation of S-Series & K-Series lift in through a rear door of a 2014 Ford Transit vehicle.

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

A. TOOLS REQUIRED

Drill with 7/16" drill bit
Marker
Torque Wrench
Wrench

B. PARTS REQUIRED

Kit P/N: R57870

II. S-SERIES & K-SERIES LIFT INSTALLATION

A. 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.

NOTE: Be certain to check for proper travel clearance through doorway.

2. LIFT INSTALLATION GUIDELINES

The mounting of lift is a very important step. Lift performance can be greatly affected by improper mounting and/or fastening of lift. Although fastening details may vary from one vehicle to the next, some general principles always apply:

- Be certain that all mounting bolts are properly installed and tightened. Bolts used to fasten baseplate assembly to vehicle floor should be equivalent to or greater than a strength rating of SAE Grade 5 and torqued to 28 ft. lbs., dry. Always remember that the most important bolts are those at rear of lift, since these bolts retain most of load.
- Refer to **FIG [1]**. Improper fastening sequence or torquing of bolts may result in a warped or buckled baseplate and, therefore, cause lift to operate unevenly.

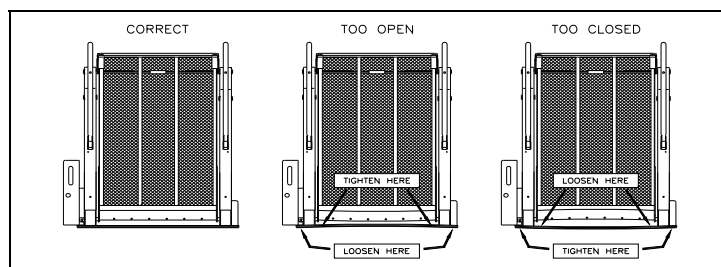


FIG [1]: PLATFORM MOUNTING

3. LIFT INSTALLATION INTO VAN

<p>⚠ WARNING!</p> <p>CHECK FOR HIDDEN OBSTRUCTIONS BELOW FLOOR BEFORE DRILLING OR CUTTING.</p>

- Refer to **FIG [2]** and **FIG [3]**. Aluminum installation template (PN 57871) is available for purchase separate from this kit. Standard kit includes a paper template to assist in location of holes. **NOTE:** Aluminum template shown in figures for clarity.
- Prior to installing vehicle subfloor, installation holes should be drilled in OEM metal floor using the installation template.

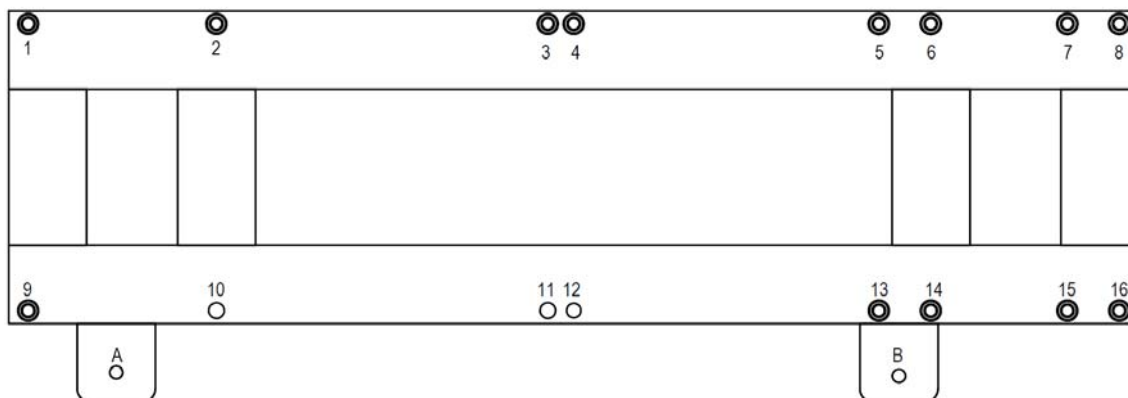


FIG [2]: ALUMINUM INSTALLATION TEMPLATE (57871)

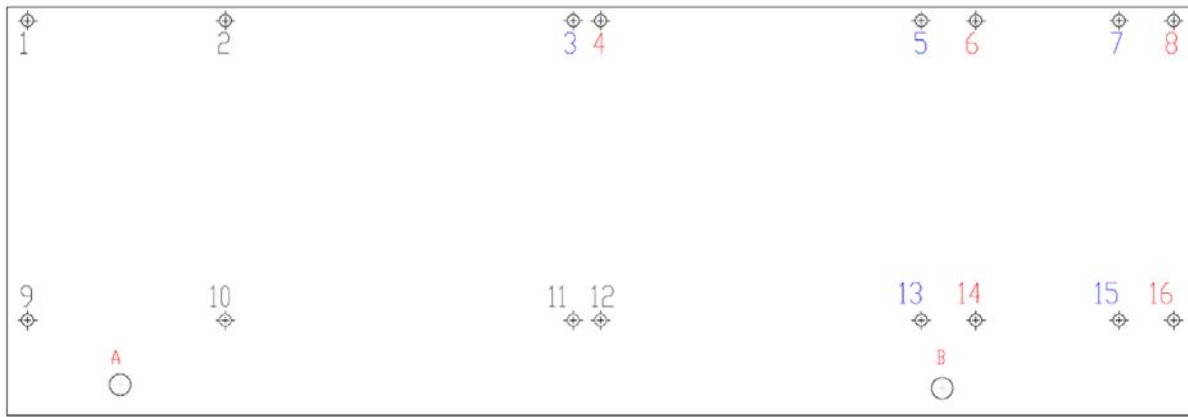


FIG [3]: PAPER INSTALLATION TEMPLATE (57873)

- c. Refer to **FIG [4]**. With OEM vehicle floor exposed, place installation template on floor so that both alignment marks (A and B in the paper template) are concentric with the existing holes in the rear of the van. If using aluminum template, make sure both alignment bushings are concentric with the holes in the rear of the van.

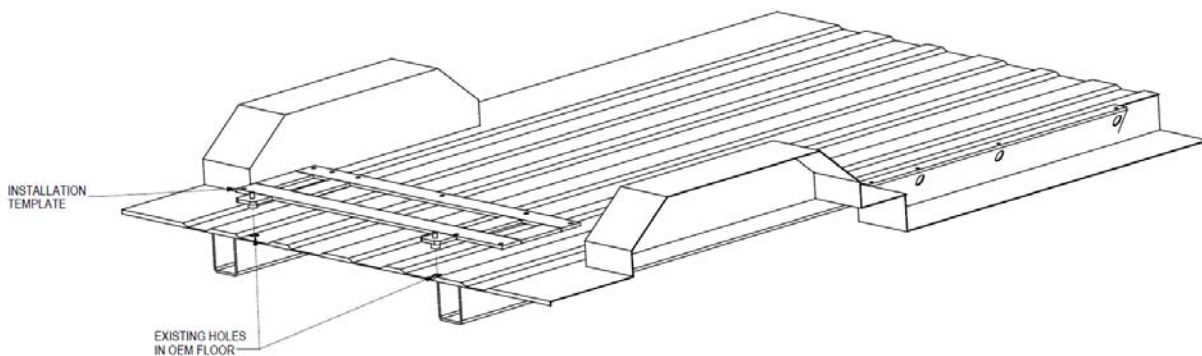


FIG [4]: TEMPLATE PLACEMENT

WARNING!

CHECK FOR HIDDEN OBSTRUCTIONS BELOW FLOOR BEFORE DRILLING OR CUTTING.

- d. Ensure that drill locations are clear of obstructions below the floor. If obstructions exist (wires, lines, etc.) move them temporarily to avoid damage.
- e. If lift being installed uses a 43" wide baseplate, use holes 1, 2, 4, 6, 8, 9, 14, 16
- f. If lift being installed uses a 41" wide baseplate, use holes 1, 2, 3, 5, 7, 9, 13, 15
- g. Using a 7/16" drill bit, drill the 8 installation holes through metal floor. Some locations will be in line with chassis frame rails. Drill holes through all members.
- h. Remove template
- i. Install vehicle subfloor.
- j. Using the holes drilled in the vehicle floor, drill holes in the subfloor material from below the vehicle
- k. Refer to **FIG [5]**. Place lift in vehicle and position so that holes in mounting plate line up with installation holes

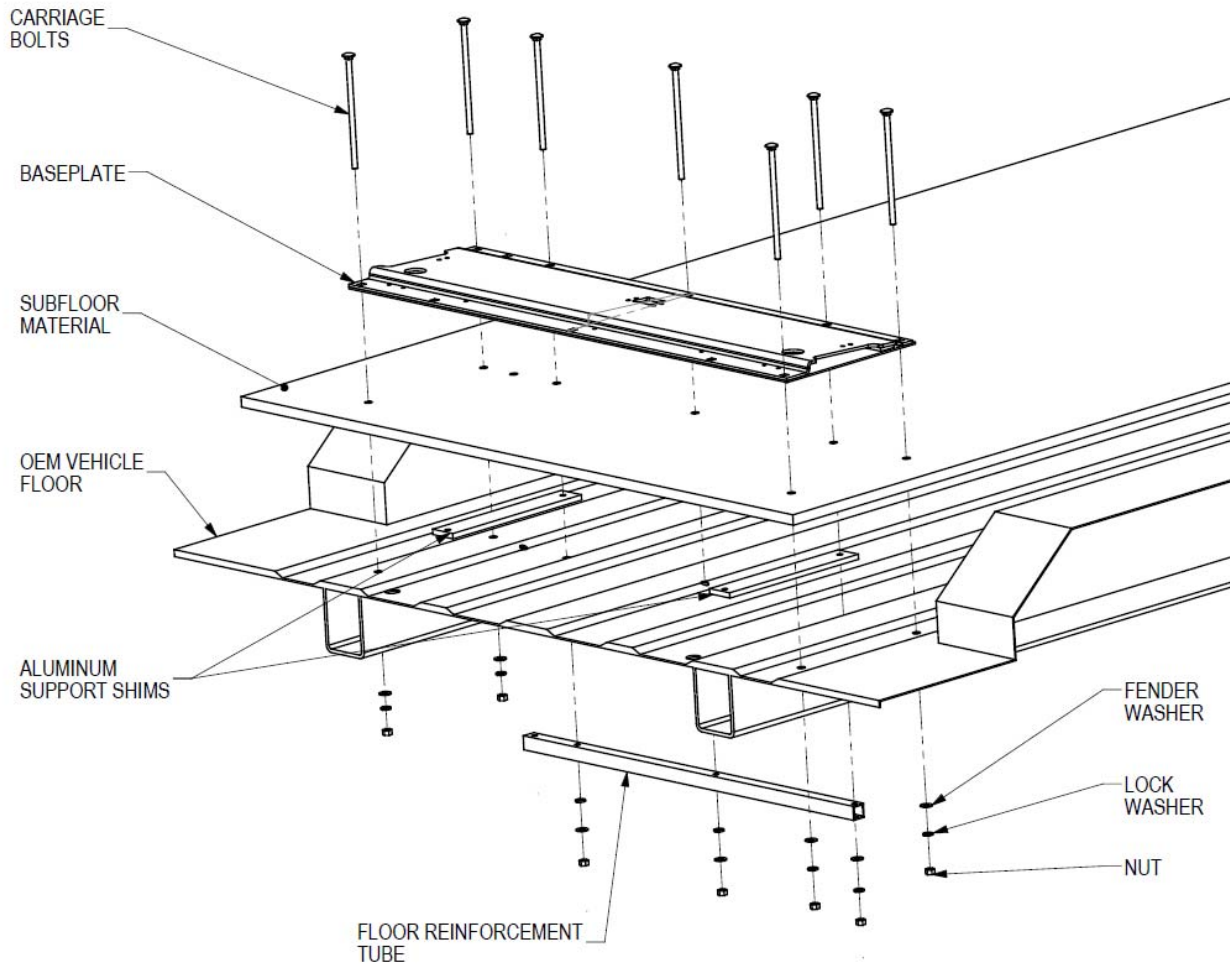


FIG [5]: LIFT PLACEMENT AND SECUREMENT

- l. Place two aluminum support shims between subfloor material and OEM floor. Ensure that shims are underneath the baseplate, placing them as far as possible from the center of the lift to the left and right.
- m. Refer to **FIG [6]**. Insert carriage bolts through baseplate and installation holes.

Hole # (43" BP)	Hole # (41" BP)	Bolt Length	Additional Hardware
1	1	5" (RI28826)	Reinforcement Plate
2, 4, 6	2, 3, 5	3" (RI14-07-312)	Reinforcement Tube
9, 14, 16	9, 13, 15	2 ½ " (RI14-07-310)	N/A
8	7	8" (RI14-07-336)	Reinforcement Plate

FIG [6]: HARDWARE PLACEMENT

- n. (Hole # 2, 3 or 4, 5 or 6) Place reinforcement tube below vehicle floor between the frame rails so that the carriage bolts pass through the 3 holes of the tube.
- o. (Hole # 1, 7 or 8) Install square reinforcement plate below vehicle floor
- p. Install flat washers followed by lock washers then tighten nuts.

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-COMPLIANT	SAFETY ITEM
		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
ST00 & ST01 (SLIDE-AWAY™)	600 POUNDS (272KG)
S 1100 SERIES	800 POUNDS (363KG)
S/K 1200 SERIES	800 POUNDS (363KG)
S/K 2000 SERIES	800 POUNDS (363KG)
S/K 5000 SERIES	800 POUNDS (363KG)
S/K 5500 SERIES	800 POUNDS (363KG)
S/K 2000FF SERIES (TITANIUM™)	1,000 POUNDS (454KG)
S/K 5000FF SERIES (TITANIUM™)	1,000 POUNDS (454KG)

NOTES