



# 2009-10 Ford F-150 2WD & 4WD 1"- 2.5" Performance Strut Installation Instructions

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### REQUIRED TOOL LIST:

- Safety Glasses
- Metric / Standard Wrenches & Sockets
- Floor Jack / Jack Stands
- Measuring Tape
- Torque Wrench
- Strut Spring Compressor




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Before beginning the installation, thoroughly & completely read these instructions & the enclosed driver's WARNING NOTICE. Affix the WARNING decal in the passenger compartment in clear view of all occupants. Please refer to the Parts List to insure that all parts & hardware are received prior to the disassembly of the vehicle. If any parts are found to be missing, contact SKYJACKER® Customer Service at 318-388-0816 to obtain the needed items. If you have any questions or reservations about installing this lift kit, call SKYJACKER® Technical Assistance at 318-388-0816.

Make sure you park the vehicle on a level concrete or asphalt surface. Many times a vehicle is not level (side-to-side) from the factory & is usually not noticed until a lift kit has been installed which makes the difference more visible. Using a measuring tape, measure the front & rear (both sides) from the ground up to the center of the fender opening above the axle. Record this information below for future reference.

Driver Side Front: \_\_\_\_\_ Passenger Side Front: \_\_\_\_\_

Driver Side Rear: \_\_\_\_\_ Passenger Side Rear: \_\_\_\_\_

### IMPORTANT NOTES:

- If larger tires (10% more than the stock diameter) are installed, speedometer recalibration will be necessary. Contact your local Ford dealer or an authorized dealer for details.
- After installation a qualified alignment facility is required to align the vehicle to factory specifications.

# Kit Box Breakdown:

## Part #: F9125ST

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
F9125STS	1"- 2.5" 09-UP F150 STRUT	2
F900SP	.625" FORD STRUT SPCR RING	2
I-F9125ST	INST SHEET: F9125ST	1

## Front Installation:

1. With the vehicle on flat level ground, set the emergency brake & block the rear tires.
2. Place a floor jack under the lower control arm's front crossmember & raise the vehicle. Place jack stands under the frame rails, behind the front wheel wells & lower the frame of the vehicle onto the jack stands.
3. Remove the front tires / wheels & disconnect the sway bar end links.
4. Disconnect the tie rod end from the steering knuckle using a 21mm socket & tie rod remover or other suitable tool. (See Photo # 1)
5. Disconnect the upper ball joint from the steering knuckle using a 22mm socket & ball joint remover or other suitable tool.
6. Remove the three upper strut retaining nuts using a 15mm socket. (See Photo # 2)
7. Remove the lower strut mount bolt from the lower A-arm using a 1 1/16" & 1 3/16" socket. Once removed, remove the strut assembly.
8. For upper strut mount alignment purposes, mark the location of the upper strut mount & coil spring prior to disassembly. Using a strut spring compressor, compress the coil spring of the OEM strut assembly. Remove the upper strut retaining nut & upper strut mount using a 17mm socket. Remove the strut from the coil spring & remove the hte OEM bump stop from the upper strut mount. (See Photo # 3)
9. Remove the upper end cap & coil spring seat from the OEM strut. Both can easily be tapped off with a hammer & punch. (See Photo # 4 & 5)



**Note:** There are four snap ring grooves located on the Skyjacker strut body. The ring is installed in the top groove when shipped. This will yield approximately 2.5" of lift. The lower snap ring grooves may be used if less lift is desired. Each snap ring groove equals approximately 1/2" of lift. **Once the coil spring seat spacer ring has been installed & the desired snap ring groove has been selected check all suspension components for any contact or interference. If suspension component contact or interference is present, lower the coil spring seat by selecting a lower snap ring groove until no contact or interference is present.**

10. Install the new Skyjacker coil seat spacer ring (Part # F900SP / See Photo # 6 / Black Arrow), OEM coil spring seat (See Photo # 6 / White Arrow) & new Skyjacker bump stop (with the smaller end pointing up) on the new Skyjacker strut. (See Photo # 6)
11. Insert the new Skyjacker strut through the OEM coil spring & install the OEM upper strut mount aligning the marks made in Step # 8. Tighten the supplied retaining nut using 19mm socket & uncompress the coil spring.
12. Install the new Skyjacker strut assembly by aligning the three upper strut mount studs with the OEM mounting location holes using the OEM hardware & a 15mm socket. (See Photo # 7)
13. Install the lower strut mount using the OEM hardware, 1 1/16", & 1 3/16" socket.
14. Attach the upper ball joint to the steering knuckle using the OEM hardware & 22mm socket.
15. Attach the tie rod to the steering knuckle using the OEM hardware & 21mm socket. (See Photo # 1)
16. Attach the sway bar end links using the OEM hardware.
17. Install the front tires / wheels & lower the vehicle to the ground.



## **FINAL NOTES:**

- After the installation is complete, double check that all nuts & bolts are tight. Refer to the following chart again for the proper torque specifications. (Do not retighten the nuts & bolts where thread lock compound was used.)
- With the vehicle placed on the ground, cycle the steering lock to lock & inspect the steering, suspension, brake lines, front & rear drivelines, fuel lines, & wiring harnesses for proper operation, tightness, & adequate clearance.
- Have the headlights readjusted to the proper settings.
- Have a qualified alignment center realign the front end to the factory specifications.
- Retorque all the bolts after the first 100 miles.

<b><u>TORQUE SPECIFICATIONS</u></b>					
<b><u>INCH SYSTEM</u></b>			<b><u>METRIC SYSTEM</u></b>		
<b>Bolt Size</b>	<b>Grade 5</b>	<b>Grade 8</b>	<b>Bolt Size</b>	<b>Class 8.8</b>	<b>Class 10.9</b>
5/16	15 FT LB	20 FT LB	6MM	5 FT LB	9 FT LB
3/8	30 FT LB	35 FT LB	8MM	18 FT LB	23 FT LB
7/16	45 FT LB	60 FT LB	10MM	32 FT LB	45 FT LB
1/2	65 FT LB	90 FT LB	12MM	55 FT LB	75 FT LB
9/16	95 FT LB	130 FTLB	14MM	85 FT LB	120 FT LB
5/8	135 FT LB	175 FT LB	16MM	130 FT LB	165 FT LB
3/4	185 FT LB	280 FT LB	18MM	170 FT LB	240 FT LB

- **The above specifications are not to be used when the bolt is being installed with a bushing.**

**Seat Belts Save Lives, Please Wear Your Seat Belt.**