



# 2007- 2010 Toyota FJ Cruiser 1" - 3" 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<sup>®</sup> 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<sup>®</sup> 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:

- This lift is determined from the amount of lift to the front of the vehicle, while only lifting the rear to a position level with the front.
- If larger tires (10% more than the stock diameter) are installed, speedometer recalibration will be necessary. Contact your local Toyota 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 #: FJ730ST

<u>ITEM#</u>	<u>DESCRIPTION</u>	<u>QTY</u>
513STS	TOY 1-3" ADJ PERF STRUT	2
FJ25R	2-2.5" FJ CRSR REAR CLS,PR	1
SBE702	END LINKS REAR 3" FJ CRUISR	1
I-FJ730ST	INST SHEET: 3" FJ STRUT	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 cross member & 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.
4. Remove the ABS line from the upper A-arms using a 10mm socket & disconnect the ABS / brake line from the steering knuckle. (See Photo #1)
5. Disconnect the outer tie rod from the steering knuckle using a tie rod remover or other suitable tool. (See Photo #2)
6. Disconnect the lower strut mount from the lower A-arm & disconnect the sway bar end link. (See Photo #3)
7. Disconnect the upper A-arm ball joint from the top of the steering knuckle using a ball joint remover or other suitable tool. (See Photo #4)



8. Remove the upper strut mounting bolts from the upper frame mount & remove the strut. (See Photo #5)
9. Using a spring compressor, unload the tension on the upper mount of the coil assembly. Remove the upper strut retaining nut & remove the strut from the bottom. (See Photo #6)



Photo #5

**Note:** There are six snap ring grooves located on the new Skyjacker strut body for 1" to 3" lift heights. The ring is installed in the second groove from the top when shipped. This will yield 2.5" - 3" of lift. The upper groove is only to be used when 2.5" - 3" of lift is desired, after aftermarket accessories have been added that weigh the front of the vehicle down (ie. winch, after market bumper, & etc). The lower grooves can be used if you would like to keep the factory rake of the vehicle (front of vehicle lower than the rear). **Once the coil spring seat retaining ring has been installed, check all suspension components for any contact or interference. If suspension component contact or interference is present, lower the coil spring seat by lowering the coil spring seat retaining ring until no contact or interference is present.**



Photo #6

10. Re-assemble using the Skyjacker Strut. (See Photo #7) **Note:** The factory upper stem bushings will be re-used.
11. Attach the strut assembly to the lower A-arm using the factory hardware. **Note:** Install the bolt from the rear, towards the front. (See Photo #8)
12. Attach the upper strut mount to the frame using the factory hardware. Re-attach the upper A-arm to the steering knuckle. **Note:** It may be necessary to use a pry bar to pull the A-arm down far enough to re-attach.



Photo #7

13. Re-attach the ABS line / brake line & sway bar end links. (See Photo #9)



Photo #8

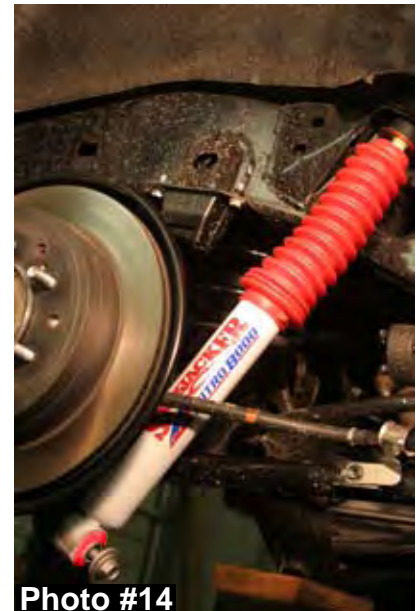
14. Install the front tires / wheels & lower the vehicle to the ground.



Photo #9

## **Rear Installation:**

15. Block the front tires & raise the rear of the vehicle. Properly support the frame rails using jack stands & remove the rear tires / wheels. (See Photo # 10)
16. Disconnect the brakeline brackets & remove the rear shocks & sway bar end link from the axle to allow for the installation of the new Skyjacker rear coils. Disconnect the track bar from the frame. (See Photo #11).
17. Remove the factory coil spring & replace with the new Skyjacker rear coil springs. **Note:** Be sure to retain the upper bump stop as shown. (See Photo #12)
18. Re-attach the track bar & brakeline brackets. Install the new Skyjacker sway bar end links. Install using the supplied hardware. (See Photo #13)
19. Install the new Skyjacker rear shocks. (See Photo #14)
20. Install the rear 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 below 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.**