



#T1250 Installation Instructions 2007-2010 Toyota FJ Cruiser 2.5" Suspension Lift

Read and understand all instructions and warnings prior to installation of product and operation of vehicle.

Zone Offroad Products recommends this system be installed by a professional technician. In addition to these instructions, professional knowledge of disassembly/ reassembly procedures and post installation checks must be known. Minimum tool requirements include the following: Assorted metric and standard wrenches, hammer, hydraulic floor jack and a set of jack stands. See the "Special Tools Required" section for additional tools needed to complete this installation properly and safely.

» PRODUCT SAFETY WARNING

Certain Zone Suspension Products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Extreme care must be used to prevent loss of control or vehicle rollover. Failure to drive your modified vehicle safely may result in serious injury or death. Zone Offroad Products does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

You should never operate your modified vehicle under the influence of alcohol or drugs. Always drive your modified vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Always wear your seat belt.

» TECHNICAL SUPPORT

Live Chat provides instant communication with Zone tech support. Anyone can access live chat through a link on www.zoneoffroad.com.

www.zoneoffroad.com may have additional information about this product including the latest instructions, videos, photos, etc.

Send an e-mail to tech@zoneoffroad.com detailing your issue for a quick response.

888.998.ZONE Call to speak directly with Zone tech support.

» PRE-INSTALLATION NOTES

1. Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
2. Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
3. Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.
4. Post suspension system vehicles may experience drive line vibrations. Angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
5. Secure and properly block vehicle prior to installation of Zone Offroad Products. Always wear safety glasses when using power tools.
6. If installation is to be performed without a hoist, Zone Offroad Products recommends rear alterations first.
7. Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle attitude. Always measure the attitude prior to beginning installation.

Difficulty Level

easy 1 2 **3** 4 5 difficult

Estimated installation: 3-4 hours

Special Tools Required

None

Tire/Wheel Fitment

285/75R16 Tire

16 x 8 w/5" backsparing max.
Wheel

Kit Contents

Qty	Part
2	Front Strut Spacer
1	Bolt Pack - Front - #629
2	Rear Coil Spring Spacer
2	Rear Sway Bar Relocation Bracket
1	Bolt Pack - Rear - #658

INSTALLATION INSTRUCTIONS

» FRONT INSTALLATION

1. Park the vehicle on a clean, flat surface and block the rear wheels for safety.
2. Raise the front of the vehicle and support with jack stands under the frame rails, behind the suspension.
3. Remove the front wheels.
4. Locate the lower alignment cam bolts. **Figure 1** Loosen the bolts (2 per arm - 4 total). This will allow the lower control arm to swing down and out of the way when the strut is disconnected.



Figure 1

5. Remove the 2 lower ball joint mount bolts from the steering knuckle. **Figure 2** Save bolts.
6. Remove the lower strut mount bolt at the lower control arm. **Figure 2** Swing the lower control arm down and out of the way. Save hardware.

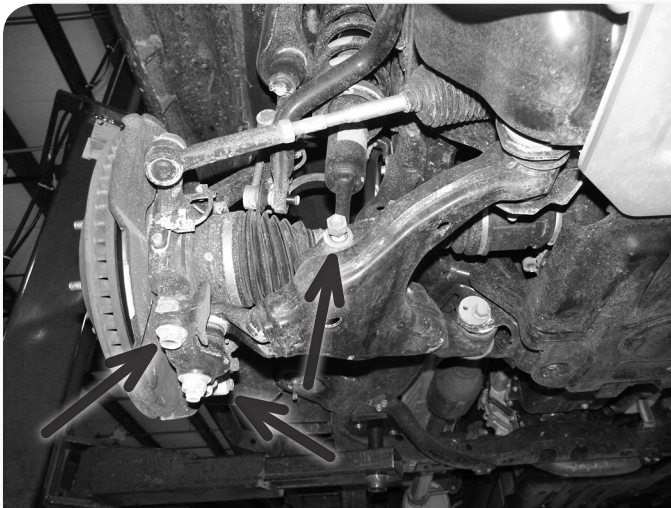


Figure 2

7. Locate the 3 upper strut mount nuts. **Figure 3** Remove the nuts and remove the strut from the vehicle. Do not remove the center strut rod nut. It is under extreme pressure. Save nuts.

Important—measure before starting!

Measure from the center of the wheel up to the bottom edge of the wheel opening

LF _____ RF _____

LR _____ RR _____

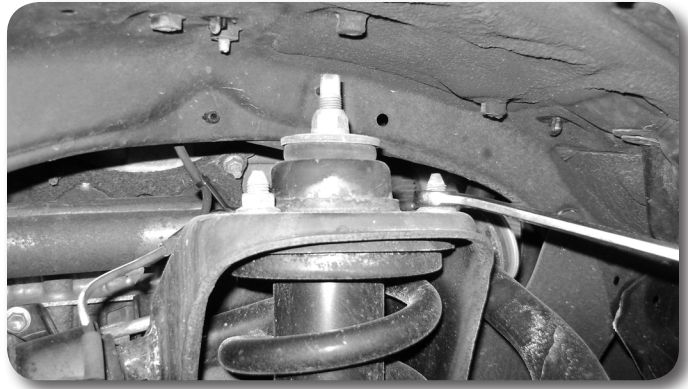


Figure 3

Step 8 Note

Mounting hardware is located in hardware pack #629.

8. Locate one of the supplied strut spacers and install on the factory upper strut mount studs. Fasten with the original nuts and tighten securely (Approx. 45 ft-lbs). Figure 4



Figure 4

9. Install the strut assembly back in the vehicle and fasten to the original frame mount with the provided 10mm nuts and washers. Figure 5 Torque nuts to 45 ft-lbs.

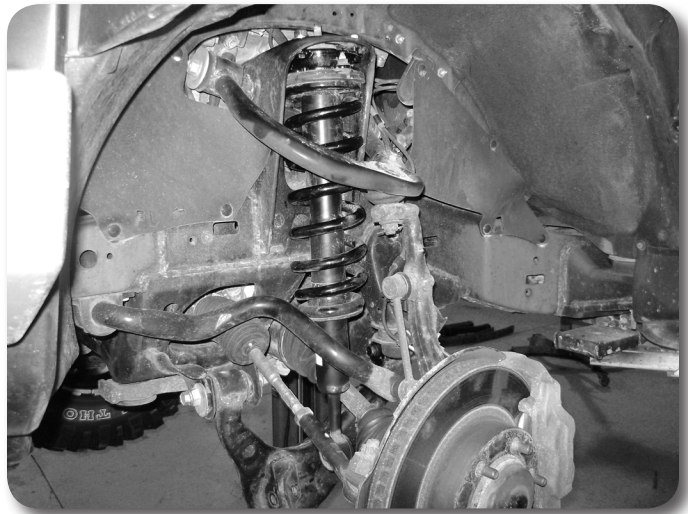


Figure 5

10. Swing the lower control arm up and fasten to the strut with the original factory hardware. Leave hardware loose.
11. Repeat the strut removal/assembly on the opposite side of the vehicle.
12. With both struts reattached to the frame, reconnect the lower control arm/ball joint assembly to the steering knuckles with the factory bolts. A floor jack can be used to raise the lower control arm. Use Loctite on the bolt threads and torque bolts to 110 ft-lbs.
13. With both sides assembled, install the wheels and lower the vehicle to the ground. Torque lug nuts to 80 ft-lbs.
14. Bounce the front of the vehicle to settle the suspension. Torque the lower control arm cam bolts to 100 ft-lbs. Torque the lower strut bolts to 100 ft-lbs.

» REAR INSTALLATION

1. Block the front wheels for safety.
2. Raise the rear of the vehicle and support with jack stands at the frame rails ahead of the lower suspension links.
3. Remove the rear wheels.
4. Support the rear axle with a floor jack under the differential housing.
5. Remove the rear shocks. Save the lower mount hardware, the rest will not be reused.
6. Disconnect the sway bar from the axle mounts. **Figure 6** The hardware will not be reused. Free the sway bar bushing brackets free from the axle mounts.



Figure 6

7. Disconnect the bracket line bracket from the frame. **Figure 7** Save bolt.

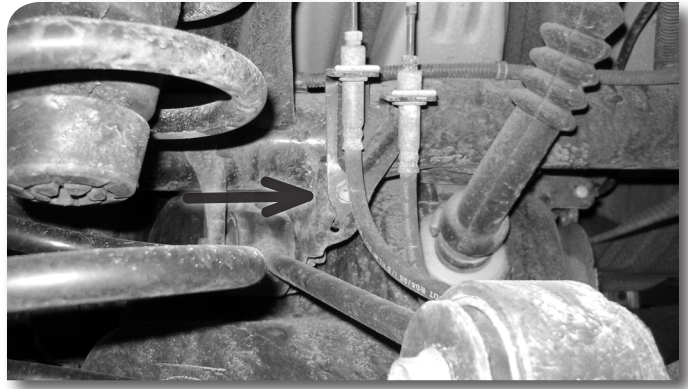


Figure 7

8. Lower the axle and remove the coils springs and upper rubber spring mount.
9. Position a provided $7/16"$ x $1"$ bolt and washer in the center hole in the factory coil spring frame mount. Figure 8 Place a new provided rear coil spacer in the factory frame mount and fasten with a $7/16"$ serrated flange nut. Figure 9 Torque $7/16"$ hardware to 45 ft-lbs.

Step 9 Note

Mounting hardware is located in hardware pack #658.



Figure 8



Figure 9

10. With both new coil spacers in place, install the factory coil spring and coil spring mount back into the vehicle. **Figure 10** Be sure the coil spring seats properly on the axle mount.



Figure 10

11. Locate the new rear sway bar relocation plates. The plates have 4 holes. Mount the plates to the factory sway bar mounts on the axle. The upper hole in the factory mount will align with the countersunk hole in the new plate. Fasten the plate with an 8mm x 25mm bolt/washer in the lower hole and an 8mm x 25mm flat head bolt in the upper hole. **Figure 11** Torque bolts to 20 ft-lbs.



Figure 11

12. Remove the factory sway bar bushing brackets from the sway bar **Figure 12A** and reinstall them so the 'hook' on the bracket is to the top. The 'hook' will go around the top edge of the new relocation plates. Position the sway bar on the new relocation plates and fasten with an 8mm x 25mm bolt, nut and washers in the top holes and 8mm x 25mm bolt/washer in the bottom hole. **Figure 12B** Torque hardware to 20 ft-lbs.

Step 11,12 Note

Sway bar bracket hardware is located in hardware pack #658.



Figure 12A



Figure 12B

13. Note the new location of the sway bar in relation to the plastic fuel tank guard on the driver's side. The rear-driver's side lip of the tank guard will need to be trimmed for the sway bar bushing mount to clear when the suspension compresses. Mark the area and trim for clearance. **Figure 13**



Figure 13

14. Locate the new rear shocks. Loosely install the upper stem mount into the factory frame shock mount.
15. At the axle, install the large supplied shock spacer on the shock mount stem followed by the shock. With the shock in place, install the small stud extender spacer in the shock bushing and fasten the assembly with the factory bolt. Torque bolt to 70 ft-lbs. **Figure 14.**

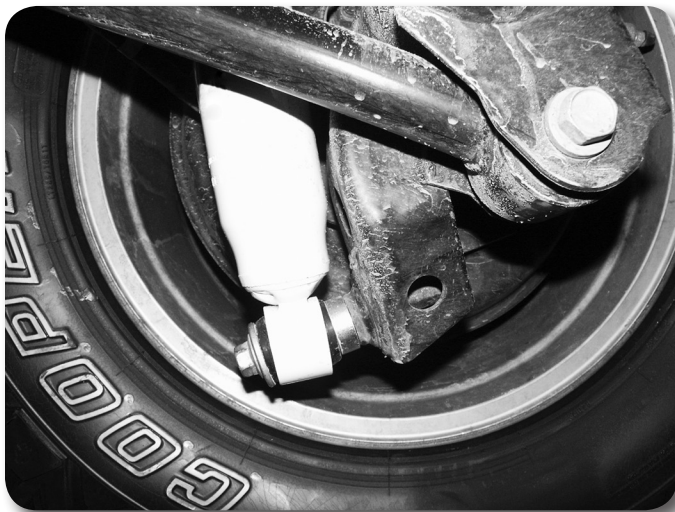


Figure 14

16. With the lower shock bolt tightened, go back and tighten the upper nut until the bushings begin to swell.
17. Reattach the bracket line bracket with the original bolt. Torque bolt to 10 ft-lbs.
18. Install the wheels and lower the vehicle to the ground. Torque lug nuts to 80 ft-lbs.

»» **POST-INSTALLATION**

1. Check all hardware for proper torque.
2. The vehicle will need a complete front end alignment.
3. Adjust headlights.
4. Check hardware after 500 miles.

Post-Installation Warnings

1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.
2. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure.
3. Perform head light check and adjustment.
4. Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.