



**INSTALLATION INSTRUCTIONS FOR 2008-14
TOYOTA SEQUOIA 2WD & 4WD
2 1/2" SUSPENSION LIFT KIT
PART NUMBER 441 (Patent Pending)**

WARNING!!! READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE PROCEEDING. MAKE SURE THAT YOU HAVE ALL TOOLS AND PARTS BEFORE BEGINNING THE INSTALLATION.

SPECIAL TOOLS REQUIRED:

- FACTORY CERTIFIED SPRING COMPRESSOR**
- BALL JOINT SEPARATING TOOL**
- CLAM TYPE SPRING COMPRESSOR**

REVTEK SUSPENSION RECOMMENDS THAT RED LOCTITE BE USED ON ALL FASTENERS UNLESS OTHERWISE NOTED. IT IS ALSO RECOMMENDED TO HAVE THE FRONT END ALIGNMENT CHECKED AFTER INSTALLATION.

KIT CONTENTS INCLUDE:

- INSTRUCTIONS INCLUDING PARTS LIST
- PRODUCT SAFETY LABEL (ORANGE)
- WINDOW DECAL
- WARRANTY
- DIFFERENTIAL SPACER KIT

PARTS LIST INCLUDED IN KIT

<u>FRONT</u>	<u>QTY.</u>
PRELOAD SPACER	2
TOP OUT EXTENDER	8
SKID PLATE SPACER	3

TORQUE SPECIFICATIONS

8MM & 5/16 FASTENERS	17 FT. LBS.
10MM FASTENERS	30 FT. LBS.
12MM FASTENERS	55 FT. LBS.
9/16" U-BOLT	75 FT. LBS.
LUG NUTS	140 FT. LBS.
UPPER BALL JOINT	81 FT. LBS.

REAR PARTS

LIFT SPACERS (POLY)	2
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DIFFERENTIAL SPACER KIT

	<u>QTY.</u>
DIFFERENTIAL DROP SPACERS	2
½ - 13 X 6 BOLT	2
½ -FLAT WASHER	2
½ - 13 FLANGE NUT	2

FRONT OF VEHICLE

1. Park your Sequoia on a level concrete surface.
2. Center and lock the steering wheel.
3. Block the rear wheels of the vehicle to prevent vehicle from moving in either direction.
4. Jack up the vehicle from the correct lift points. See (Fig. A.)
5. Support the vehicle with jack stands from the proper points. See (Fig. A.)
6. Remove the front wheels.
7. Remove the bracket that holds the brake lines to the upper control arm. (10mm wrench.) See (Fig. B.)
8. Remove the bracket that holds the brake lines to the steering knuckle. (12mm socket.) See (Fig. B1.)
9. Remove the nut from the upper ball joint (19mm socket) and separate the upper ball joint using a ball joint separating tool. See (Fig. C.)
10. Remove the upper coil shock nuts (14mm wrench.) See (Fig. D.)
11. Remove the lower coil shock nut (22mm socket.) and bolt (22mm wrench.) See (Fig. E.)
12. Remove the bolt from the sway bar end. (19mm socket.) See (Fig. E.)
13. Remove the nut from the tie rod end (24mm socket) and separate with proper tool. See (Fig. E1.)
14. Remove strut from your Sequoia.

NOTE: AT THIS TIME, IF YOU DO NOT HAVE A SUITABLE SPRING COMPRESSOR, IT IS HIGHLY ADVISED TO TAKE THE STRUT TO A QUALIFIED SERVICE CENTER.

15. Count the threads exposed on the shock shaft above the nut, you will need this exact number after the preload spacers are installed. See (Fig. F.)
16. Compress coil shock assembly and remove the nut (17mm socket) on the top of the shock shaft.
17. Release the compressor.
18. Remove the spring top plate from the coil shock.
19. Remove and **discard** the rubber isolator that sits between the spring and the top plate.
20. Install the PRELOAD SPACER P/N - PLS-6 between the spring and the top plate with the small diameter facing toward the spring and the Revtek logo facing out. See (Fig. G.) Compress the shock assembly, making sure you center the shock shaft through the spring top plate. Replace the grommet, washer, and nut on the top of the shock shaft, and tighten until you have the same number of threads showing that you had when you counted them in step 15.
21. Install the top out spacers (P/N TOS-8) over the studs. See (Fig. G1.)
22. Re-install the coil shock assembly by reversing the removal procedure.
23. When properly installed, the Revtek logo should face outward. See (Fig. H.)
24. Re-install the upper ball joint assembly. Torque to 81 ft. lbs.
25. Re-install the line brackets to the upper control arm and the steering knuckle.
26. Re-install the tie rod end.
27. Re-install anti-sway bar.
28. Proceed to the differential drop and skid plate instructions if you are working on a 4x4.

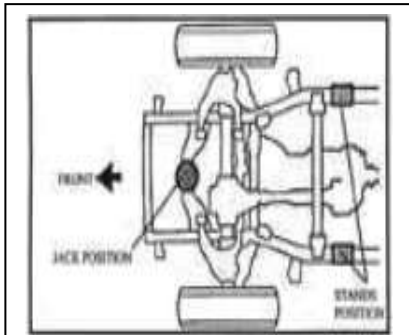


FIG A



FIG B



FIG B1



FIG C



FIG D



FIG E



FIG E1



FIG F



FIG G



FIG G1



FIG H

DIFFERENTIAL DROP SPACER KIT

1. Remove skid plate under the front of the vehicle (12mm socket); save the OEM bolts.
2. Remove the factory bolts holding the front of the differential to the cross member (19mm socket); save the OEM cup washers on the bolt for step 3.
3. Install Revtek spacers RTDDS-1 between the two front differential supports and front cross-member. Fasten to cross-member using new ½" x 6" long bolts, nuts, and washers. Be sure you use the provided flat washers and the OEM cup washers on the bolt side. You will use the provided flange nuts on the top with no washers. This will allow you to tighten the assembly without the need for a wrench in the confined space on the cross member (19mm socket.) See (Fig J.)

SKID PLATE

4. Install the skid plate in the reverse operation of removal with the exception of installing the (3) spacers on the rear of the skid plate between the frame and the skid plate. See (Fig. K.)
5. Torque skid plate bolts to specs.



FIG J



FIG K

REAR OF VEHICLE

1. Place your Sequoia on a level concrete surface.
2. Block front wheels to prevent vehicle from moving in either direction.
3. Make sure parking brake is off.
4. Lift the vehicle from the frame in front of the rear axle.
5. Support the vehicle with jack stands from the points indicated. See (Fig. I.)
6. Remove rear wheels.
7. Loosen the bolt that fastens the front lower control arm to the frame. See (Fig. 2.) on both sides of the rear axle.
8. Loosen bolt that fastens the rear lower control arm to the frame. See (Fig. 3.) on both sides of the rear axle.
9. Loosen the bolt that fastens the spring carrier arm to the frame. See (Fig. 4.) on both sides of the frame.
10. Remove the bolt that fastens the rear shock to the lower control arm on both sides of the rear axle, but do not pull the shocks off of the studs yet. See (Fig. 5.)
11. Remove the bolts that fasten the sway bar end links to the sway bar on both sides of the rear axle. See (Fig. 6.)
12. Swing the sway bar up and out of the way of the shocks. See (Fig. 7.)
13. Support the bottom of the control arm with a floor jack and remove the shock from the stud.
14. Remove the bolt that fastens the upper control arm to the spindle. See (Fig. 7.)
15. Lower the floor jack and let the lower control arm open up from the upper control arm, this will provide more room to access the rear coil spring.
16. Install a “clam type” spring compressor to the rear coil spring and compress the spring. See (Fig. 8.)
17. Remove the spring and replace the upper rubber isolator with p/n LS-QR175 and re-install the spring. See (Fig. 9.)
18. Raise the floor jack to re-attach the bolt that fastens the knuckle to the upper control arm.
19. To complete installation, reverse step numbers 16 through 6 and torque all hardware to OE specifications.

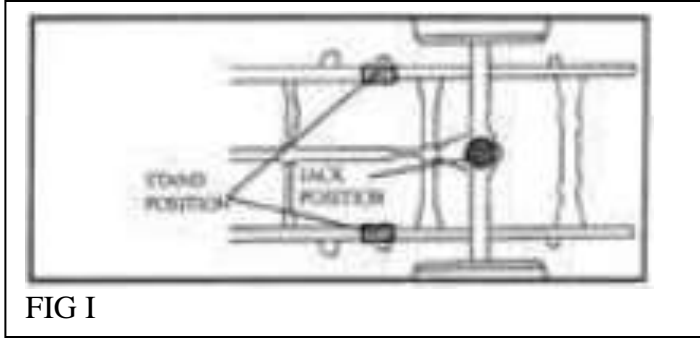


FIG I



FIG 2



FIG 3



FIG 4



FIG 5



FIG 6



FIG 7



FIG 8



FIG 9

Important Installation Notes:

- Manufacturing tolerances do create certain variations that we cannot fully account for. At times you may need to use a punch, or pry bar to get holes to line up. Also you may need to slightly enlarge a hole to create a proper alignment. These are all normal situations.
- Altering your suspension may change the way your vehicle handles. Care must be taken to operate your vehicle safely.
- Adding large wheels and tires, will change how your suspension operates. It may put extra strain on certain components causing them to wear sooner than normal.
- While every effort is made to design our kits to work within factory geometry, there are situations where additional alignment tools like adjustable or replacement components may be needed. This is normal.
- It is possible when changing the driveline angles that a vibration may occur, and require an adjustment to repair this situation.
- Other modifications may be needed due to optional equipment on the vehicle or other prior modifications that have been made.
- All fasteners should be checked and retightened after 500 miles. After the initial recheck, they should be checked and tightened as needed with every following service.
- Once the installation is complete a thorough road test should be performed to verify proper clearance of all items.
- Revtek Suspension kits are not designed for race applications.
- Altering the suspension on your vehicle may change the characteristics of some systems such as: fuel economy, transmission shift points, etc.
- While Revtek systems are designed to work within all factory specifications and tolerances, there are some situations where exceeding the capability of the vehicle such as load capacity or speed will result in some undesirable results. If you overload your vehicle it will not handle correctly. If you drive or turn with excessive speed your vehicle will handle differently and some onboard vehicle systems may detect this and take appropriate action.
- Our tire and wheel fitments are only a guideline. Different production times or tolerances will vary and this sizes should only be used as a starting point. Each vehicle is different and will need to be treated as such.
- Our lift heights can vary slightly based on manufacturing tolerances. Some vehicles will exhibit slightly different amounts of lift heights and different final heights. Every vehicle is not identical and every vehicle will not be perfectly the same at all four corners.
- Once your vehicle is lifted components may wear faster, this is normal. A lifted vehicle is exerting more stress on most components and therefor causing them to wear faster.
- After altering the height of your vehicle, you should aim the headlights for proper coverage.
- The use of Loctite on fasteners is highly recommended.