



ZONT1151 Installation Instructions

2024-2025 Toyota Landcruiser (LC250) 4wd

2024-2025 Lexus GX550 4wd

2025 Toyota 4Runner (LC250) 4wd

1-1/2" Strut Spacer 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.
8. Does not fit Lexus GX550 with rear air or E-KDSS (Electronic-Kinetic Dynamic Suspension System), Overtrail, and Overtrail+ Models

Difficulty Level

easy 1 **2** 3 4 5 difficult

Estimated installation: 2-3 hours

Special Tools Required

Strut Compressor

Tire/Wheel Fitment

285/70 17x8.5 w/ 5.75" BS Wheel

285/65 18x8.5 w/ 5.75" BS Wheel

285/70 17x9 w/ 5" BS Wheel*

305/60 17x8.5 w/ 5" BS Wheel**

33x12.50 17x8.5 w/ 5" BS Wheel**

*Trimming may be required

**Trimming is required

ZONT1151 Kit Contents

Qty	Part
2	Front Strut Top Spacer
2	Front Strut Preload Spacer

INSTALLATION INSTRUCTIONS

Important—measure before starting!

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

LF _____ RF _____

LR _____ RR _____

» 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 OE outer tie rod nut and disconnect the tie rod from the steering knuckle. **Figure 2** Save hardware for later installation.

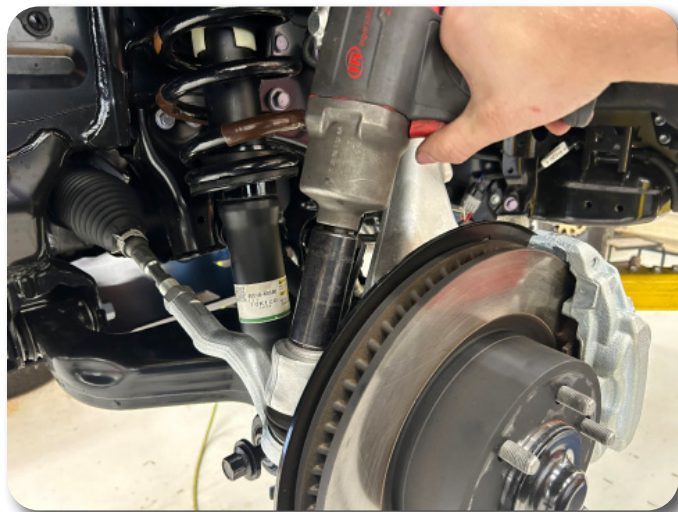


Figure 2

6. Support the lower control arm and remove the lower strut mount bolt at the lower control arm. **Figure 3** Save hardware for later installation.



Figure 3

Step 6 Note

The lower strut mount may need to be pried off of the bar pin on the lower control arm.

7. Locate the 4 upper strut mount nuts. **Figure 4** Remove the nuts and remove the strut from the vehicle. Do not remove the center strut rod nut, it is under extreme pressure! Save the OE upper strut mount nuts for later installation.



Figure 4

Step 7 Note

The sway bar links may need to be disconnected from the lower control arm to allow the strut to be removed from the vehicle.

8. Place alignment marks on the upper strut mount, isolator, spring, strut body and lower coil seat for reference when the strut is assembled. **Figure 5A, 5B, 5C.**



Figure 5A

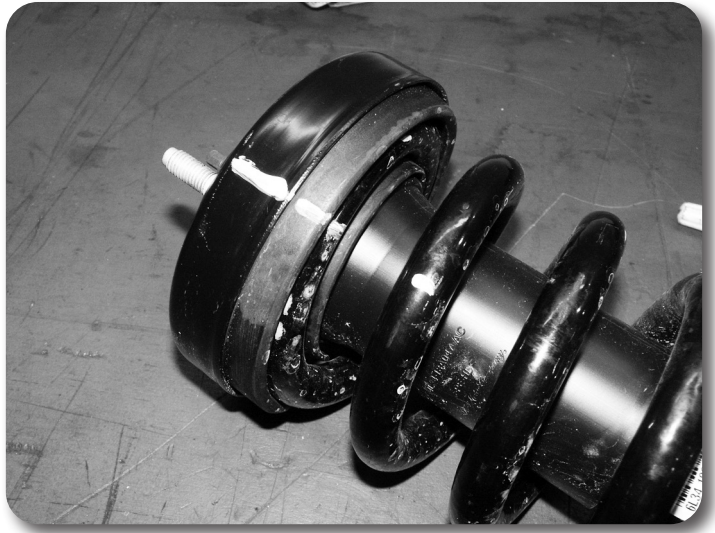


Figure 5B



Figure 5C

! Caution *Coil Spring is under extreme pressure. Improper removal/installation of coil spring could result in serious injury or death. Use only a high-quality spring compressor and carefully read and follow the manufacturer's instructions.*

9. Using an appropriate strut compressor, compress the coil spring and remove the upper strut nut **Figure 6**. Remove the strut and upper strut mount/isolator from the coil spring.



Figure 6

10. Install the 1/2" preload spacer between the strut top mount and the coil spring isolator. Figure 7A & 7B



Figure 7A



Figure 7B

11. Install the coil spring isolator on top of the preload spacer. Figure 8

Step 12 Note

It is critical the strut is assembled with all the marks lining up for re-installation to the vehicle.

12. Reassemble the strut. Make sure to line up all of the alignment marks. Fasten the strut rod with the original nut. Torque the strut nut to 13 ft-lbs. **Figure 9A, 9B, 9C**



Figure 9A



Figure 9B



Figure 9C

13. Install the 3/8" strut top spacers on to the strut. The bolt pattern is not symmetric for mounting the strut spacer. **Figure 10**



Figure 10

14. Install the strut assembly back in the vehicle and fasten to the original frame mount with the original strut mount nuts. **Figure 11** Leave the nuts loose at this time.



Figure 11

Step 14 Note

Note the strut will only install one way into the frame mount.

15. Reattach the lower strut mount to the lower control arm using the OE strut bolt. Leave hardware loose at this time.
16. Reattach the tie rod to the steering knuckle using the original hardware. Torque the outer tie rod nut to 89 ft-lbs and install a clip for the castle nut.
17. Repeat the strut removal/assembly on the opposite side of the vehicle.
18. Torque the (4) upper strut mount nuts to 33 ft-lbs.
19. If the sway bar link was removed from the lower control arm, torque the sway bar link hardware to 110 ft-lbs.
20. With both sides assembled, install the wheels and lower the vehicle to the ground. Torque lug nuts to 97 ft-lbs.
21. Bounce the front of the vehicle to settle the suspension.

22. Torque the lower control arm cam bolts to 218 ft-lbs.
23. Torque the lower strut mount bolts to 195 ft-lbs.

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.

»» Post-Installation

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