T1109 Installation Instructions
2022-25 Toyota Tundra
1" Rear Suspension System

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

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

Send an e-mail to ***tech-zone@ridefox.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: 2 hours

Special Tools Required

Drill with 1/2" drill bit

Tire/Wheel Fitment

See Front instructions

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***Important* Verify you have all of the kit components before beginning installation.**

Kit Contents

Qty	Description
2	1/4in Spacer
1	Radiator Relocation Bracket
2	Rear Coil Spring Spacer 1"
2	Pyramid Bushing - black
1	Rear Bump Stop 1" - DRV
1	Rear Bump Stop 1" - PASS
	Bolt Pack 386
1	1/4"-20 Prevailing Torque Nut, Clear Zinc
1	1/4" USS Washer, Clear Zinc
4	7/16"-14 x 1-1/2", Grade 8, Yellow Zinc
8	7/16" SAE Washer, Yellow Zinc
4	7/16"-14 Prevailing Torque Nut, Yellow Zinc
2	3/8"-16 Prevailing Torque Nut, Clear Zinc
2	3/8" SAE Washer, Clear zinc

REAR DISASSEMBLY

1. Park vehicle on clean flat and level surface. Block the front wheels for safety.
2. Raise the rear of the vehicle and support the frame rails with jackstands.
3. Remove bump stop bracket from frame. **(Fig.1)**

Figure 1

4. Disconnect sway bar links from frame bracket. **(Fig.2)**

Figure 2

5. Disconnect ABS/e-brake line bracket from axle. **(Fig.3)**

Figure 3

Important—measure before starting!

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

*LF*_____ *RF*_____

*LR*_____ *RR*_____

6. Disconnect brake line bracket from the frame. **(Fig.4)**

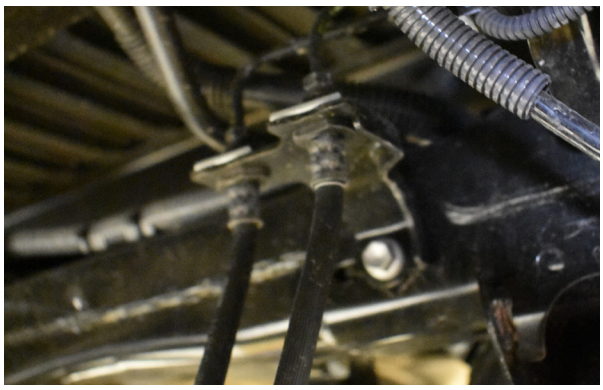

Figure 4

7. If equipped, unclip the locker line at the frame. NOTE: When reinstalled the locker line bracket will need to be bent to allow for extra droop. **(Fig.5)**

Figure 5

8. Support rear axle with a jack.

9. Disconnect Shock from axle and frame. **(Fig.6a, Fig.6b)**

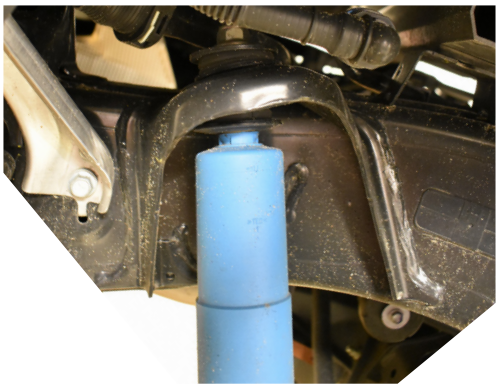

Figure 6a

Figure 6b

10. Lower axle with jack and remove spring. **(Fig. 7)**

Figure 7

REAR SPACER INSTALLATION

11. Install spring spacer using 1 provided 7/16” bolts, nut and washer BP386. **(Fig. 8)**

Figure 8

12. Use the spring spacer as a guide to drill the other hole with a 1/2 drill bit. Then install the other 7/16” bolt, nut and washer. Torque all 7/16” hardware to 42 ft/lbs.

13. Install factory springs and isolators - pulling down on the differential to allow space for the spring to slide into place. **(Fig. 9)**

Figure 9

14. Install the provided shocks, using provided mount the shock to the frame and then slip the bottom over the factory mount. Install the 18mm Washer in BP 385 as a spacer and OE hardware into the factory axle mount. Torque lower shock bolt to 72 ft-lb, Tighten upper shock nut till bushing begin to swell. **(Fig. 10a, Fig. 10b)**

Figure 10a

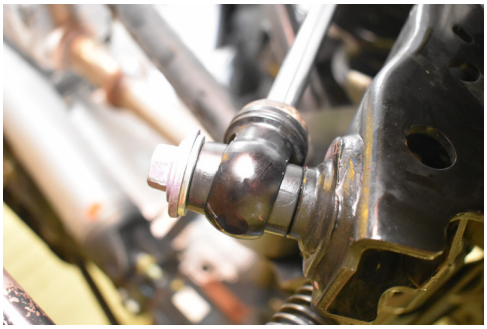

Figure 10b

15. Reconnect sway bar links with factory hardware. Torque to 55ft-lb. **(Fig. 11)**

Figure 11

16. Reconnect abs/e-brake lines to axle with OE Hardware. Torque to 12ft-lb. It may be necessary to tweak the frame and axle brackets to allow full droop. **(Fig. 12)**

Figure 12

17. Bolt on the brake lines extension bracket to the axle with OE Hardware. Torque to 12ft-lbs. Attach brake line bracket to the extension bracket with provided 1/4" hardware BP 386. Torque to 7ft-lb **(Fig. 13)**

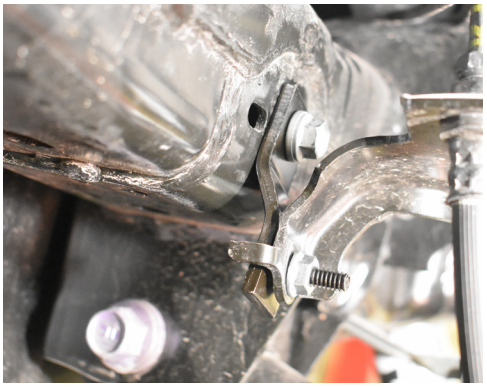

Figure 13

18. Using the provided 3/8" hardware in BP 386, install the provided bump stops onto the provided bump stop bracket. Torque to 25ft-lbs **(Fig. 14)**

Figure 14

19. Install bump stop bracket to frame using provided spacer for the top bracket hole and OEM hardware. Torque to 15 ft-lb **(Fig. 15a, Fig. 15b)**

Figure 15a

Figure 15b

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. Double check all fasteners for proper torque.
2. Check all moving parts for clearance.
3. Complete a full radius turning check to ensure that no interference occurs.
4. Align headlights
5. Double check the brake lines for adequate slack at full wheel travel.
6. Complete a vehicle alignment.
7. Check all fasteners after 500 miles
8. At regular maintenance intervals make sure the upper ball joint is greased (3-5,000 miles). The grease fitting can be accessed using a flathead screwdriver and removing the cap from the ball joint cup..