



T2353 Installation Instructions 2024-2026 Toyota Land Cruiser 250 3.5" Suspension Lift Kit, 2.5" Rear Spacer

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

Estimated installation: 3-4 hours

Tire/Wheel Fitment:

33 x 12.50** - 17 x 8.5 - 5"BS

285/75 - 17x8.5 - 5.75"BS

285/70 - 18x8.5 - 5.75"BS

285/70* - 17x9 - 5"BS

305/60** - 17x8.5 - 5"BS

285/55** - 20x9 - 5"BS

285/60* - 20x9 - 5.5"BS

285/60 - 20x7.5 (OE Wheel) -6.5"BS

295/60 - 20x7.5 (OE Wheel) -6.5"BS

** Trimming is required

* Trimming may be required

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

Kit Contents

Qty	Part	Qty	Part
1	BP1077 Bolt Pack: Front Spacer	2	Front Bump Stop Spacer
	8 - 10mm-1.50 x 30mm Steel Square Neck Carriage Bolt	2	Front Preload Spacer
	8 - 10mm-1.50 Nylock or Prevailing Torque Nut	2	Rear Bump Stop
	8 - 10mm or 3/8" SAE Washer	2	1/4" Spacer For Rear Bump Stop Bracket
	8 - 10mm Round Push Nut	1	0.625 x 0.095 x 1.000 Sleeve-Ecoat
1	BP1090 Rear Suspension Bolt Pack	1	ABS Sensor Mount Relocation Bracket
	6 - 3/8"-16 Serrated Edge Flanged Nut, Clear Zinc	1	Rear Sensor Relocation
	4 - 3/8"-16 x 1" Hex Head Bolt, Grade 5, Clear Zinc	2	Front Strut Top Spacer
	4 - 3/8" SAE Washer, Clear Zinc	1	Rear Bump Stop Extension - Driver
	2 - 3/4" SAE Washer, Clear Zinc	1	Rear Bump Stop Extension - Passenger
	1 - 8mm-1.25 x 40mm Hex Head Bolt, Class 8.8, Clear Zinc	2	Rear Coil Spring Spacer
	1 - 8mm Flat Washer, Clear Zinc	1	Rear Sway Bar Relocation Bracket - Driver
	2 - 1/4"-20 Nylock Hex Nut, Clear Zinc	1	Rear Sway Bar Relocation Bracket - Passenger
	2 - 1/4"-20 SAE Washer, Clear Zinc		

IMPORTANT

It is required that ride height measurements be taken before and after installation. Measure from the **WHEEL AXLE CENTER** up to the **FENDER LIP** of the wheel opening. Do this for all 4 wheels. Record measurements below.**

BEFORE:

LF _____ RF _____ LR _____ RR _____

AFTER:

LF _____ RF _____ LR _____ RR _____



****These ride heights will be required if you have any ride height concerns after installation. Please be prepared to provide these to Technical Support.**

PRE-INSTALLATION NOTES

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. Support the suspension assembly with a jack as shown in **(Figure 1)**.



Figure 1

5. Using needle nose pliers, disconnect and remove the 2 plastic splash shields. **(Figure 2,3)**



Figure 2



Figure 3

6. Disconnect the ABS/Brake brackets from the inner fender, upper control arm and the knuckle. **(Figure 4-8)**

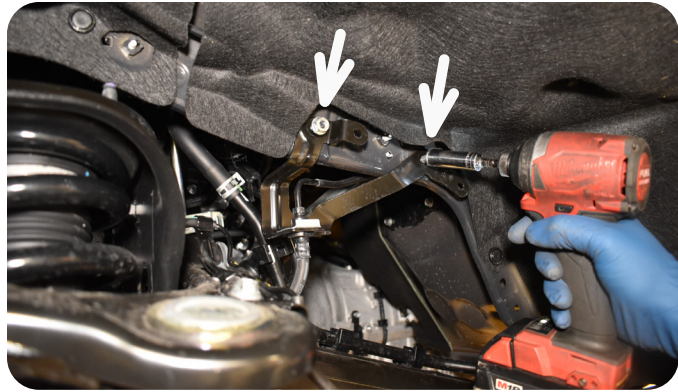


Figure 4



Figure 5



Figure 6



Figure 7



Figure 8

7. Disconnect the sway bar link from the lower control arm. (Figure 9)



Figure 9

8. Locate the lower alignment cam bolts. (Figure 10, 11) 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 10



Figure 11

9. Disconnect the 2 lower knuckle to LCA bolts. (Figure 12)



Figure 12

10. Remove the lower strut mount bolt at the lower control arm. (Figure 13,14)
Swing the lower control arm down and out of the way.



Figure 13



Figure 14

11. Locate the 4 upper strut mount nuts. (Figure 15) Remove the nuts and remove the strut from the vehicle. ***Do not remove the center strut rod nut. Nut is under extreme pressure and could cause injury if loosened.***



Figure 15

» STRUT SPACER AND PRELOAD SPACER INSTALL

12. Mark the front of the strut with a paint pen for re-assembly purposes. (Figure 16)

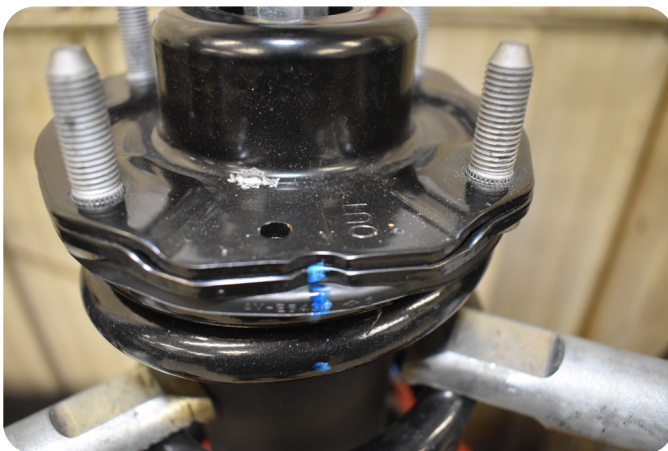


Figure 16

13. Using a strut compressor, compress the spring and remove the top nut to remove the strut body from the spring assembly. (Figure 17)



Figure 17

14. Remove the plastic strut body cap by tapping off. (Figure 18)



Figure 18

15. Mark the bottom of the spring seat relative to the shock body. Do not mark the top of the spring seat as the preload spacer will cover the mark. Tap and remove the lower spring seat. (Figure 19)

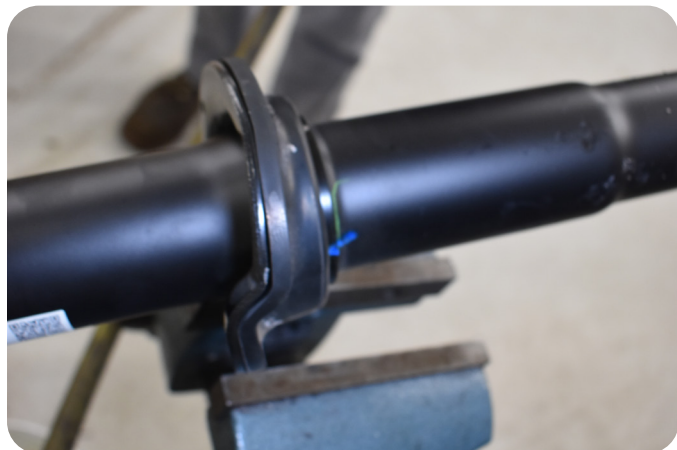


Figure 19

16. Install the preload spacer. (Figure 20)

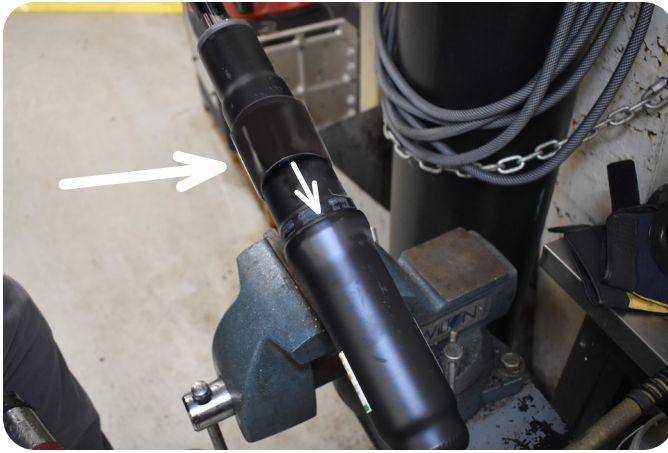


Figure 20

17. Re-install the spring seat lining up the marks made in the previous step. (Figure 21)



Figure 21

18. Re-install the plastic strut body cap. (Figure 22)



Figure 22

19. Re-install the strut body to the spring assembly loosely. Rotate top hat clockwise 90 degrees and align the front right stud on center as shown in (Figure 23).



Figure 23

20. Torque coilover top hat center nut 42ft-lbs. (Figure 24)



Figure 24

21. Install the four carriage bolts and the retaining washers. (Figure 25)



Figure 25

22. On the bench, install the top spacer using the factory nuts. Torque to 33 ft-lbs. (Figure 26)

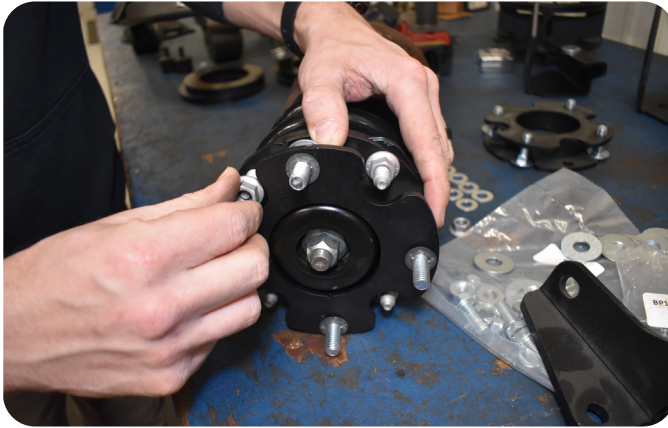


Figure 26

» FRONT BUMP INSTALLATION

23. Using a pipe wrench, remove the factory bump stops from the mounts.
24. Measure up the threads 1/2" and cut off the threads. A cut off wheel is recommended. Clean the threads so that the bump stop can be threaded into the extension. (Figure 27)

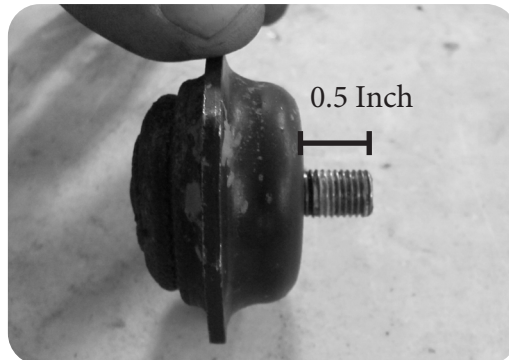


Figure 27

25. Apply loctite to the threads of the spacer and bump stop and attach them to the frame. (Figure 28)



Figure 28

26. Install strut using the provided hardware found in BP1077. Torque nuts to 33 ft-lbs. (Figure 29)

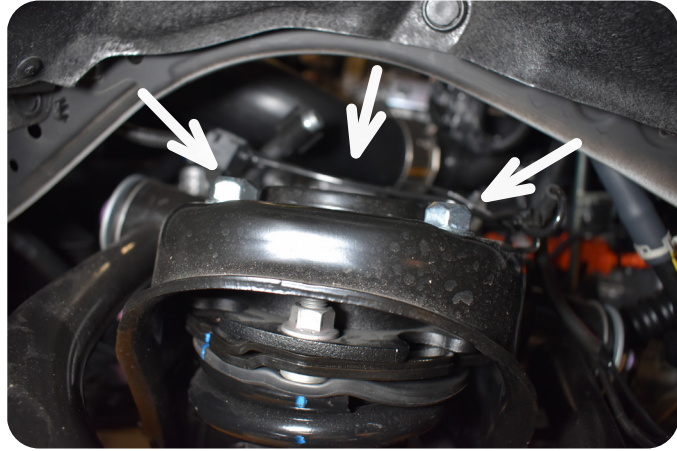


Figure 29

27. Complete same steps on the opposite side of the vehicle.
28. Re-attach strut lower to the LCA, snug up hardware, but do not torque till weight of vehicle is on it on the ground.
29. Re-attach the LCA to the knuckle, torque bolts to 221 ft-lbs.
30. Follow ZONT5351 UCA installation instructions at this time. Do not torque the control arm pivot bushing hardware until the weight of the vehicle is on the ground.
31. Re-connect all brake/ABS line brackets. Torque the speed sensor harness bracket bolt to 9 ft-lbs and the brake line bracket to 21 ft-lbs.
32. Re-connect sway bar links. Torque to 110 ft-lbs at the LCA.
33. Re-install inner fender splash shields.
34. Replace front wheels and lower vehicle to the ground.
35. Torque lug nuts to 97 ft-lb
36. Torque alignment cam bolts to 218 ft-lbs.
37. With the vehicle on the ground, now torque the lower strut to LCA hardware to 195 ft-lbs.
38. Torque the upper control arm bushing hardware to 85 ft-lbs.
39. A front end alignment is required.

Rear Installation

40. Chock the front wheels.
41. Lift the rear of the vehicle and support the frame with jack stands.
42. Remove the rear wheels.

» REAR SWAY BAR LINK BRACKET INSTALLATION

43. Disconnect rear sway bar link from frame bracket. (Figure 30)

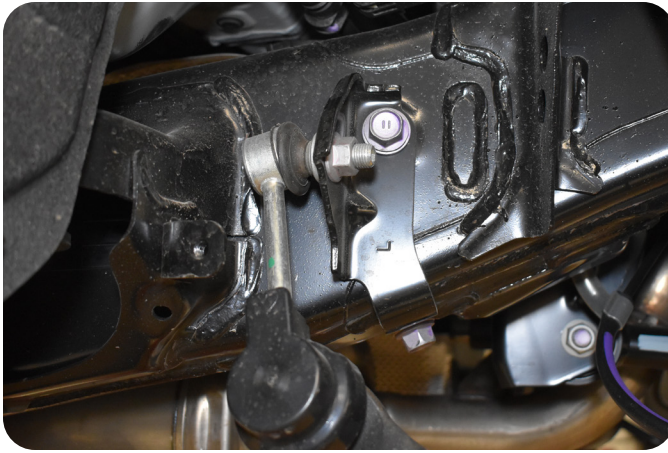


Figure 30

44. Disconnect the 2 bolts and remove the rear sway bar link frame bracket. (Figure 31)

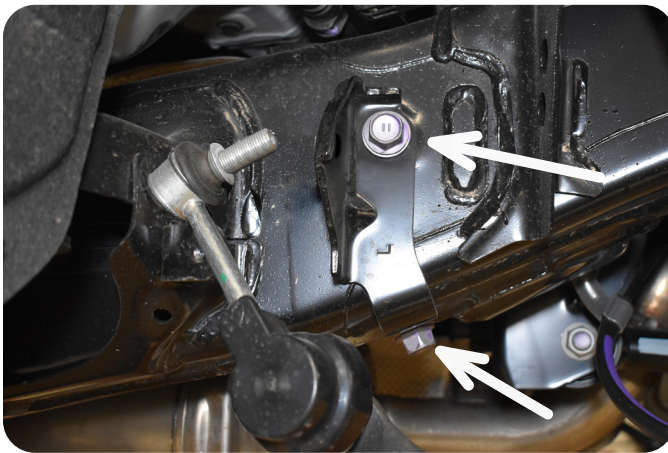


Figure 31

45. Install the provided relocation bracket, do not reconnect sway bar link at this time. Torque hardware to 71 ft-lbs. (Figure 32)

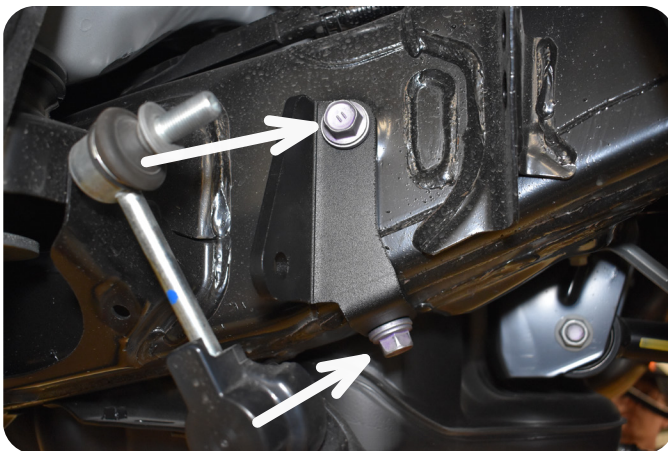


Figure 32

» REAR BUMP STOP EXTENSION INSTALLATION

46. Remove the 3 bolts and remove the rear bump stop and bracket from the frame. (Figure 33)

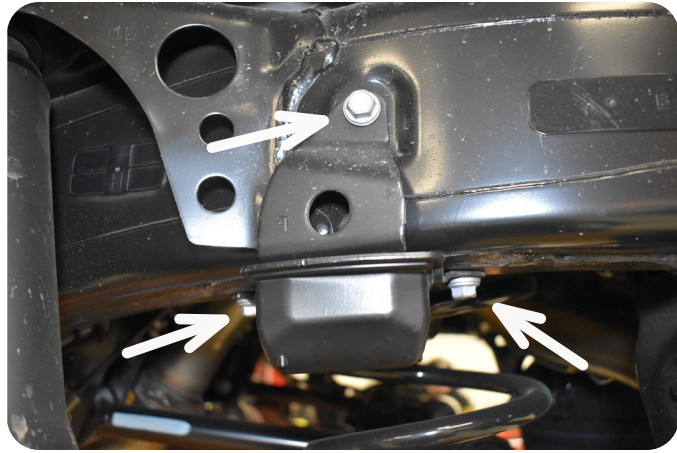


Figure 33

STEP 47 NOTE:

Bump Stop brackets are side specific.

47. Install the rear bump stop to the relocation bracket using the 3/8" serrated edge nut. Install the relocation bracket to the frame using the OE hardware and the 1/4" spacer washer on the upper frame mount.. Torque to 27 ft-lbs.. (Figure 34)

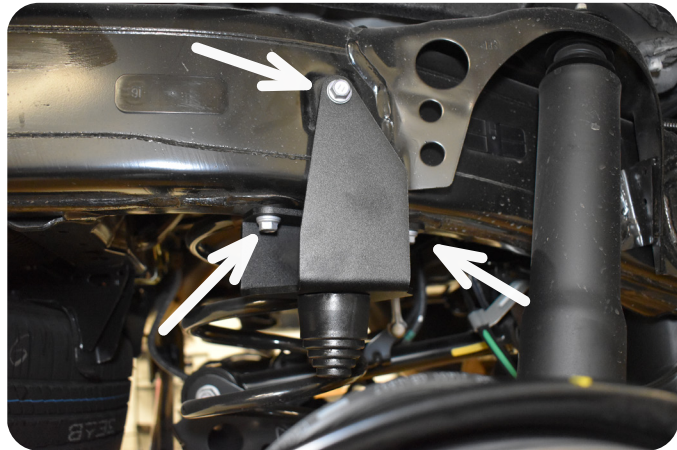


Figure 34

» **REAR COIL SPRING SPACER INSTALLATION**

48. Disconnect rear track bar from the axle bracket. (Figure 35)



Figure 35

49. Loosen upper and lower control arm bolts, but do not remove. (Figure 36, 37, 38, 39)



Figure 36



Figure 37



Figure 38

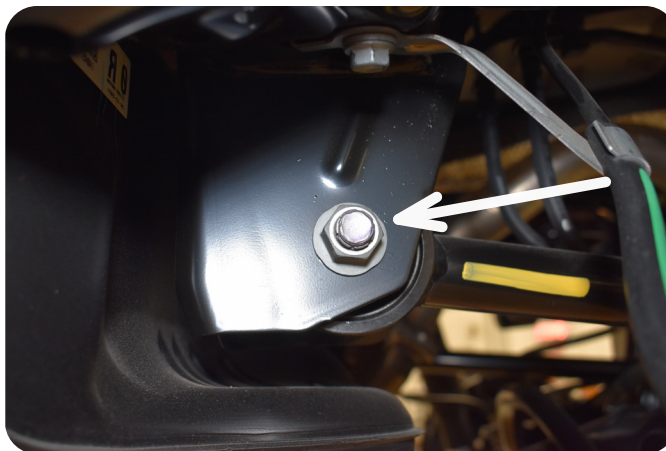


Figure 39

STEP 50 NOTE:

Be sure to disconnect any brake line brackets and height sensor brackets that may over extend when the axle is lowered for coil spring removal.

50. Disconnect the brake line/Wire harness brackets found on the axle near the bottom of the coil spring (Fig. 40), the bracket found on the frame, (Fig. 41) and the wire harness bracket on top of the rear axle gear housing, (Fig. 42)

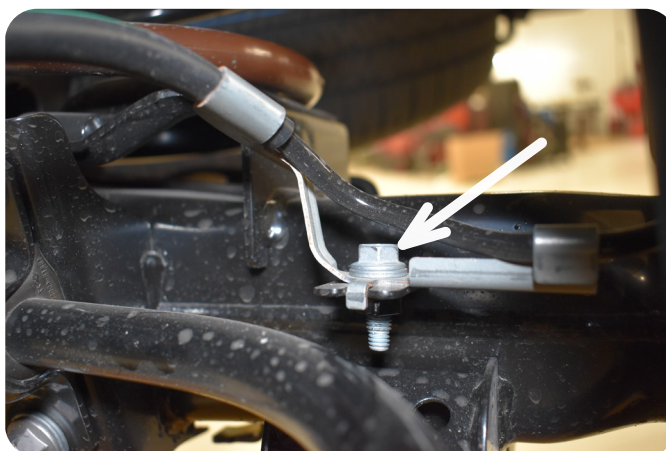


Figure 40

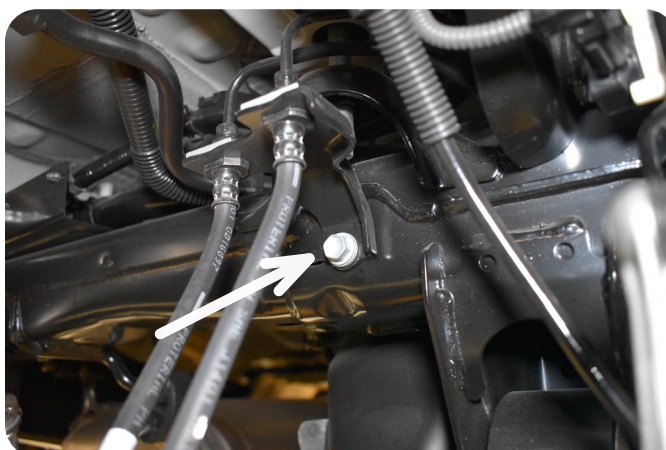


Figure 41

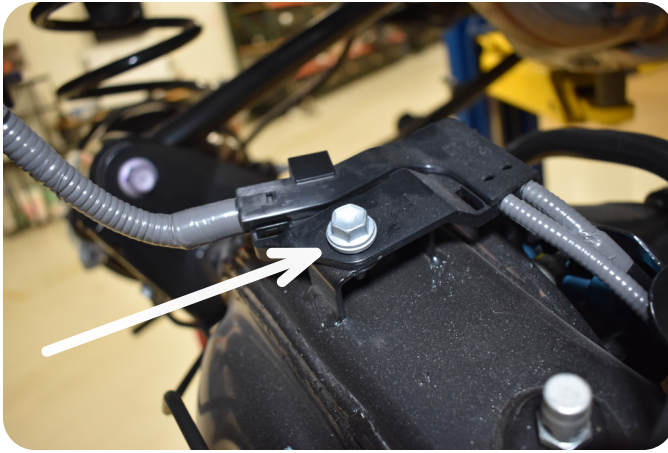


Figure 42

51. Disconnect the ride sensor bracket from the frame.(Figure 43)

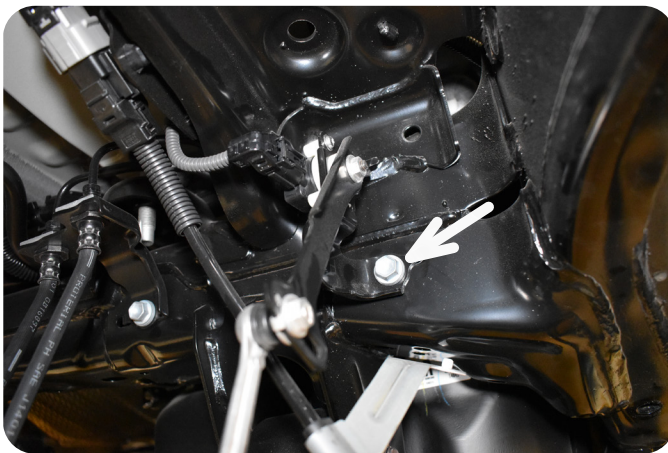


Figure 43

52. Disconnect the shock from the axle and the frame and remove the shock from the vehicle. Make sure the axle is supported when doing this. (Figure 44A - 44D)

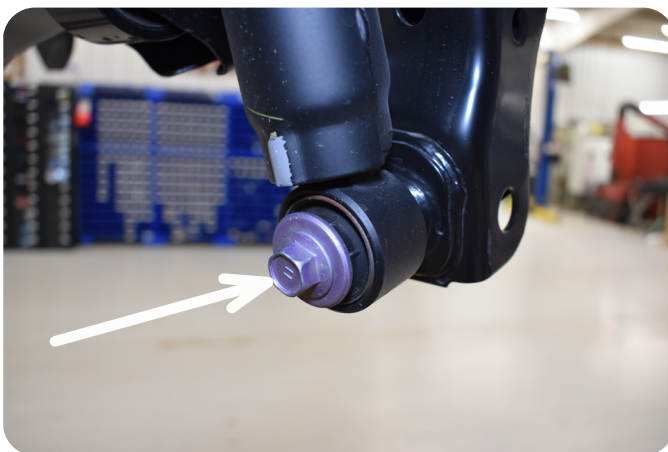


Figure 44A



Figure 42B



Figure 42C



Figure 42D

53. Before removal, mark your spring orientation in relation to the lower Spring mount for ease of re-installation. **(Figure 45)**



Figure 45

54. Lower the rear axle or lift the body to allow for the rear springs to be removed. (Figure 46, 47)

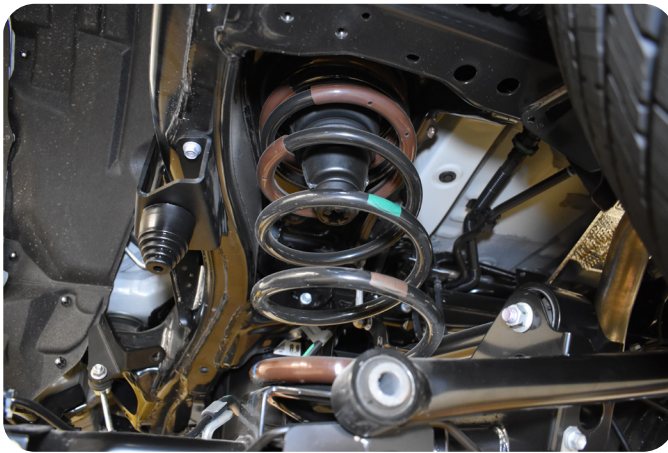


Figure 46



Figure 47

55. Install the upper spring spacer into the spring bucket using the provided 3/8" bolts, washers, and serrated edge nuts found in BP1090. (Figure 48, 49)

STEP 55 NOTES:

Use hardware found in BP1090

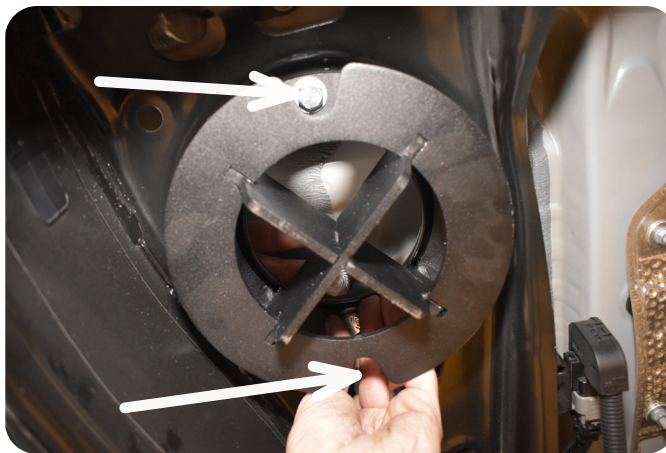


Figure 48



Figure 49

56. Lower the axle or lift the vehicle and re-install the OE spring. Align the marks made earlier for proper alignment of your coil spring. **(Figure 50)**



Figure 50

57. Install the replacement shocks onto the lower shock mount. After installing the shock, install the provided 3/4" washer onto the lower shock mount and snug up the lower shock mount with the OE hardware. Do not torque the lower mount at this time. Tighten the upper shock bushing until the bushings begin to swell.. **(Figure 51A, 51B)**



Figure 51A



Figure 51B

58. Move onto the other side of the vehicle and repeat steps for the shock disconnection, sway bar link bracket replacement and coil spring spacer installation.

» BRAKE LINE DROP BRACKET AND SPACER INSTALLATION

59. Install the Z brake line bracket drop. Install the provided bracket to the OE mounting hole using the OE bolt. (Figure 52)

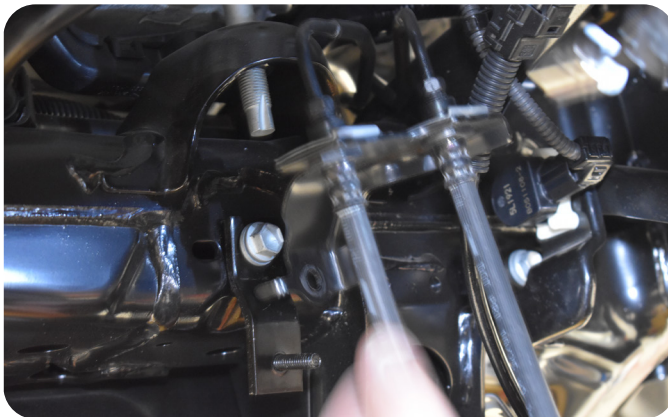


Figure 52

60. Connect the brake line bracket to the drop bracket using the provided hardware. 1/4" nut and washer in BP1090. (Figure 53)



Figure 53

61. Install the riser spacer under the brake line bracket located on the top of the rear end gear housing. Use the provided 8mm bolt and washer in BP1090. (Figure 54)

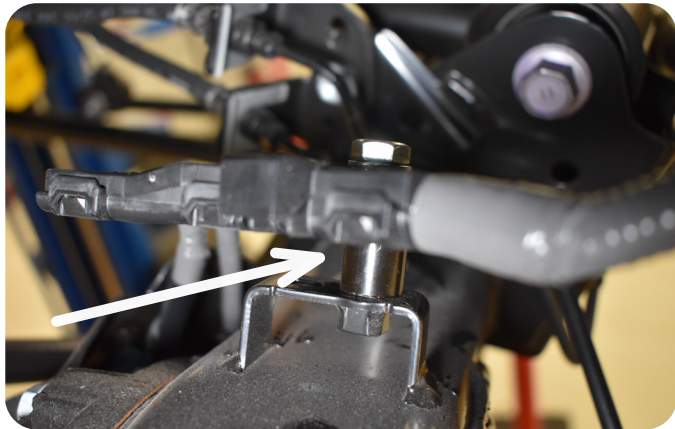


Figure 54

» **SENSOR BRACKET INSTALLATION**

62. Install the provided sensor drop bracket to the frame using the OE bolt (Figure 55)

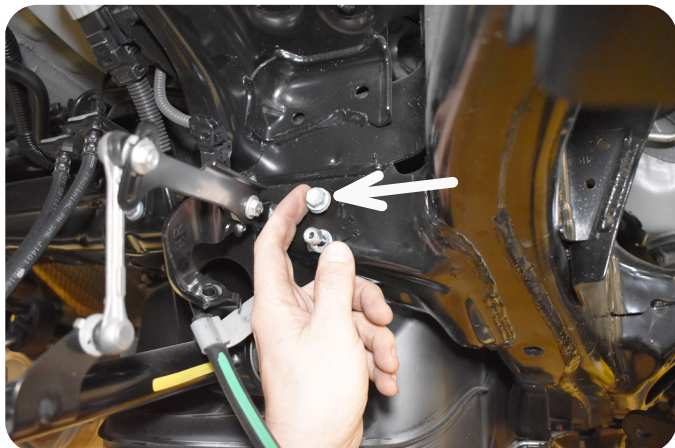


Figure 55

63. Attach the sensor bracket to the drop brackets bottom hole using the provided 1/4" nut and washer in BP1090. (Figure 56)

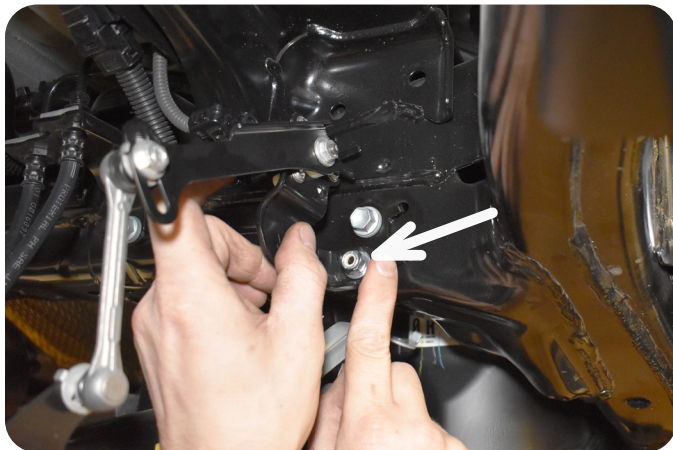


Figure 56

64. Connect rear sway bar links to the new brackets and torque to 55 ft-lbs
65. Verify brake line is not over stretched at droop.
66. Replace the rear wheels and lower the vehicle to the ground.
67. Torque lug nuts to factory specifications.
68. Torque the lower shock hardware to 77 ft-lbs.
69. Torque Upper and lower control arm hardware to 103 ft-lbs.
70. Connect track bar and torque to 115 ft-lbs.
71. Check all hardware.
72. A vehicle alignment check is recommended.
73. Re-check all 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. Longer replacement hoses, if needed can be purchased from a local parts supplier.
3. Perform head light check and adjustment.
4. Re-torque all fasteners after 100 miles. Always inspect fasteners and components during routine servicing.