



T2304 Installation Instructions

2022-24 Toyota Tundra

2023-2026 Toyota Sequoia

3.25" Strut Spacer

1.75" Rear Coil Spring Spacer Box Kit

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: 2-4 hours

Special Tools Required

Drill with 1/2" drill bit

Tire/Wheel Fitment

No Trimming*

295/65 R20 Tire w/ 6-7/8 BS (OE TRD Wheel)

285/65 R20 Tire or 285/75 R18 w/9" Wide 6-1/8" BS Wheel

295/60 R20 Tire or 295/70 R18 w/9" Wide 5-1/2" BS Wheel

305/55 R20 Tire or 305/65 R18 w/9" Wide 5" BS Wheel

Trimming**

325/60 R20 Tire w/9" Wide 6-1/8" BS Wheel

35/12.50 R20 Tire or 35/12.50 R18 w/9" Wide 5-1/2" BS Wheel

295/65 R20 Tire or 305/70 R18 or 285/75 R18w/9" Wide 5" BS Wheel

* Wheel and Tire combination was tested through normal driving conditions within alignment specs with no rubbing or trimming needed.

**Wheel and Tire combination was tested through normal driving conditions within alignment specs and some or all the following were required: removal of mud flap, fender liner being trimmed or fastened further back, body mount bump being cut off or ground down.

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

Kit Contents

Qty	Description
1	Bag Kit B1703
	1 - Bolt Pack 388
	8 - 10mm-1.50 x 50mm, Class 8.8, Clear Zinc
	8 - 10mm-1.50 Prevailing Torque Nut, Clear Zinc
	8 - 7/16" SAE Washer, Clear Zinc
	2- Bump Stop Toyota Tundra
	1- 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
	2 - 1/4in Spacer
	1 - Brake Line Bracket
	1 - Bolt Pack BP1101
	2 - 18mm Washer, Clear Zinc
	4 - 12mm-1.25 x 70mm, Class 8.8, Clear Zinc
	4 - 1/2" SAE Washer, Clear Zinc
	2 - Pyramid Bushing - Black
2	2022 Toyota Tundra Preload Spacer
2	2022 Toyota Tundra Level Spacer, Poly, 1.5"
2	2022 Toyota Tundra Rear Coilspring Spacer 1-3/4"
1	2022 Toyota Tundra, 2024 Tacoma, LC 250 Rear DRV Bump Stop Extension
1	2022 Toyota Tundra, 2024 Tacoma, LC 250 Rear PASS Bump Stop Extension
2	2022 Toyota Tundra Front Sway Bar Drop - Short
2	2022 Toyota Tundra Front Sway Bar Drop - Long
1	Bolt Pack 1068
	2 - 1/2" USS Washer, Clear Zinc
	2 - 14mm-2.00 Nylon Locknut, 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.*

INSTALLATION INSTRUCTIONS

1. Park the vehicle on a clean, flat surface and block the rear wheels for safety.
2. Raise the front of the vehicle with a jack and support each side with a jack stand under the frame rail
3. Remove the front wheels
4. If equipped remove the two bolts holding up the automatic air damn. This will allow you access to the splash guard bolts. **Figure 1**

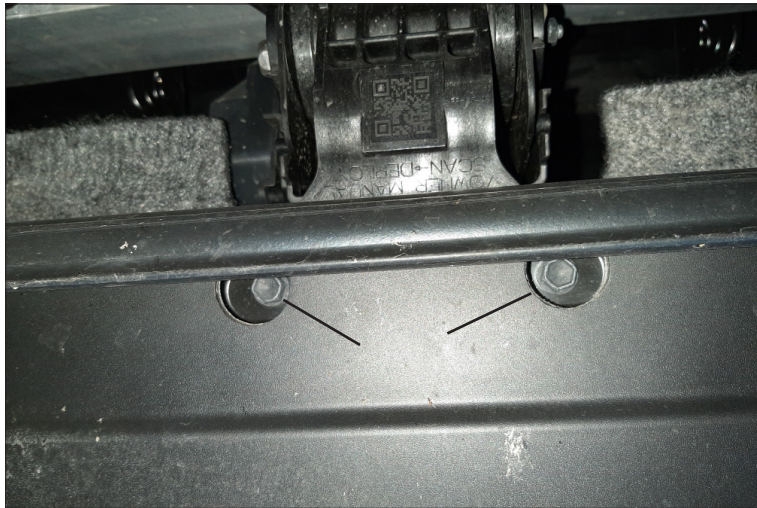


Figure 1

5. If installed remove the 4 bolts holding on the front splash guard for the steering rack. Set the splash guard to the side and it can be reinstalled later. **Fig. 2**



Figure 2

Step 6 Note

Use a prybar to remove the link from the LCA stud..

6. Disconnect the sway bar link from the LCA on both sides. **Fig. 3**

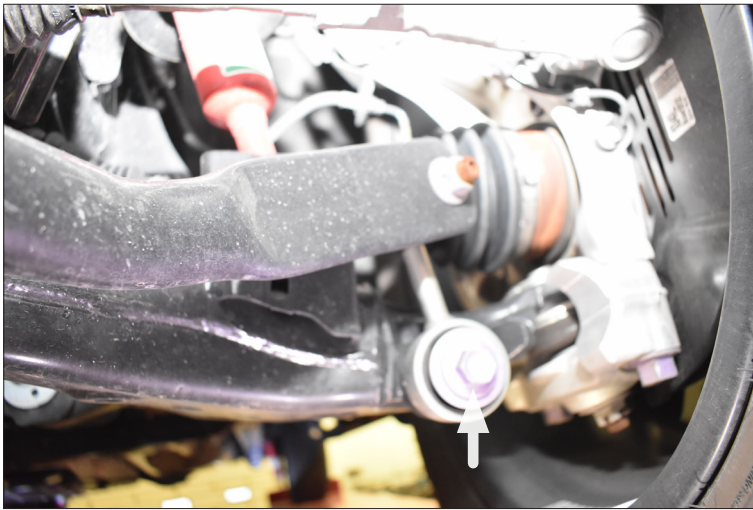


Figure 3

7. Unbolt the sway bar from the frame on the driver side. **Fig. 4**

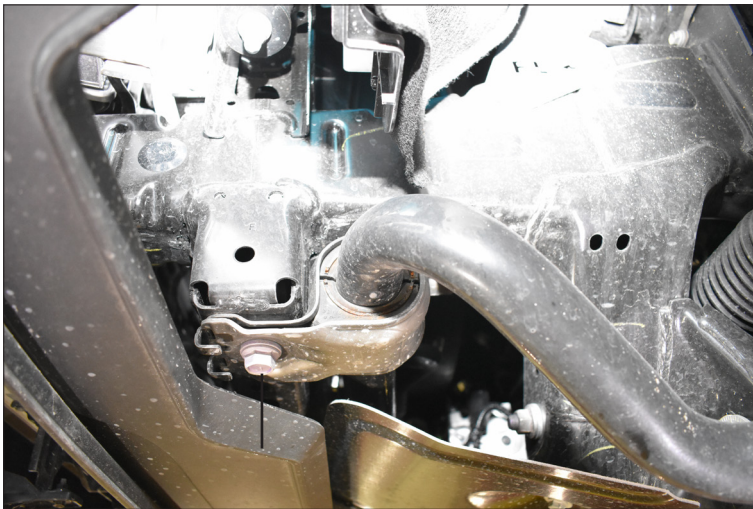


Figure 4

8. Slide in the provided larger spacer between the frame and sway bar bracket. Fasten to the frame with the Hardware in pack BP1101 leave loose. Install the small spacer in between the frame and bracket. It may be necessary to loosen up the passenger side bolts. **Fig. 5**

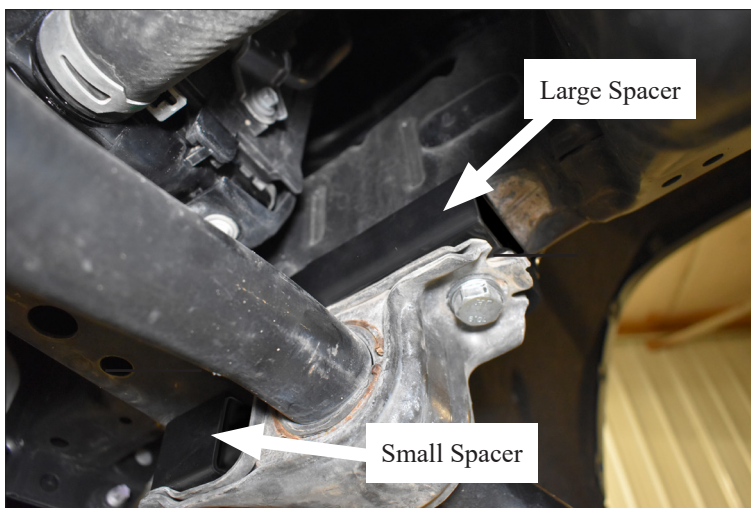


Figure 5

9. Repeat steps 7 & 8 for the Passenger side. Torque all four of the 12mm bolts to 55 ft-lbs
10. Remove the abs line bracket from the UCA to allow more slack for additional travel. **Fig. 6**



Figure 6

11. Remove the brake line bracket from the frame. Will be reinstalled later **Fig. 7**



Figure 7

12. In order to remove driver side UCA(Upper Control Arm) bolt, the factory air box and PCM must first be removed.
13. Disconnect wire harness from air box. **Fig. 8**



Figure 8

14. Loosen the air hose clamp. **Fig. 9**



Figure 9

15. Remove Air box by pulling up and out. **Fig. 10**



Figure 10

16. Remove PCM(Power Control Module) wire harness clip by pressing out on the clip tabs on both sides using a flat head screwdriver. **Fig. 11**



Figure 11

17. Remove the three PCM harness connectors by flipping the 3 gray locking switches.
Fig. 12,13,14

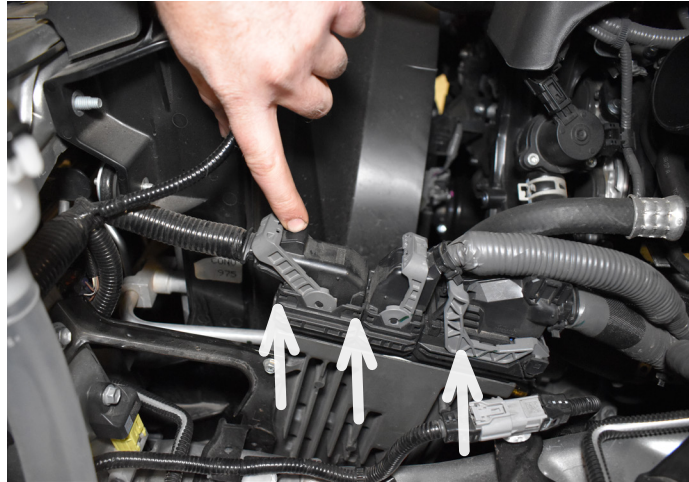


Figure 12



Figure 13

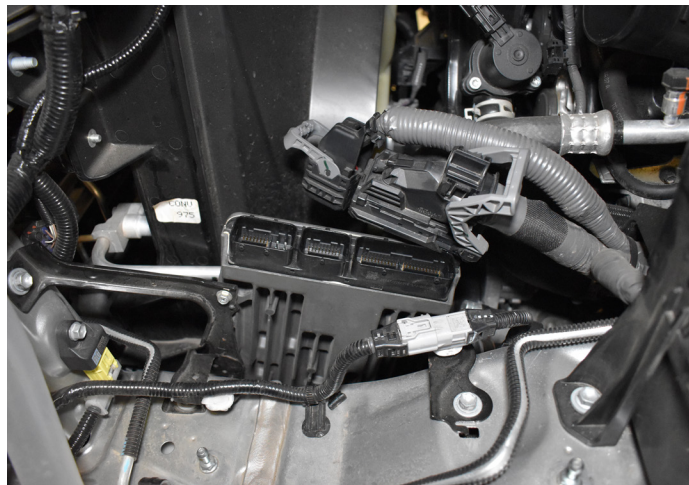


Figure 14

18. Remove 3 harness clips. **Fig. 15**

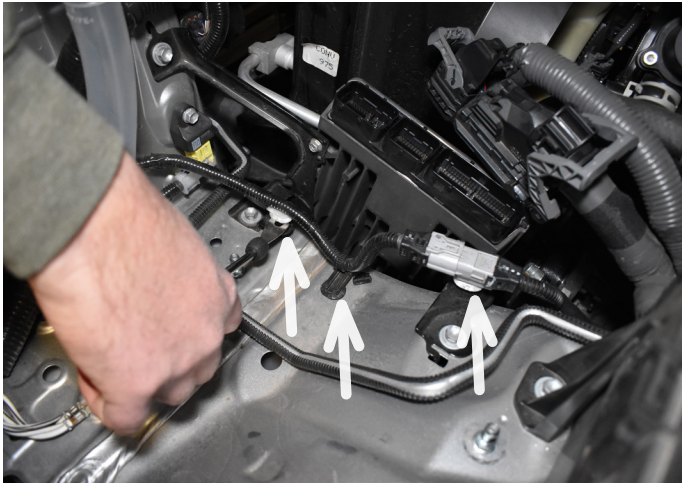


Figure 15

19. Remove the 3 PCM bracket bolt. **Fig. 16**



Figure 16

20. Carefully remove PCM and set aside in a secure location. **Fig. 17**

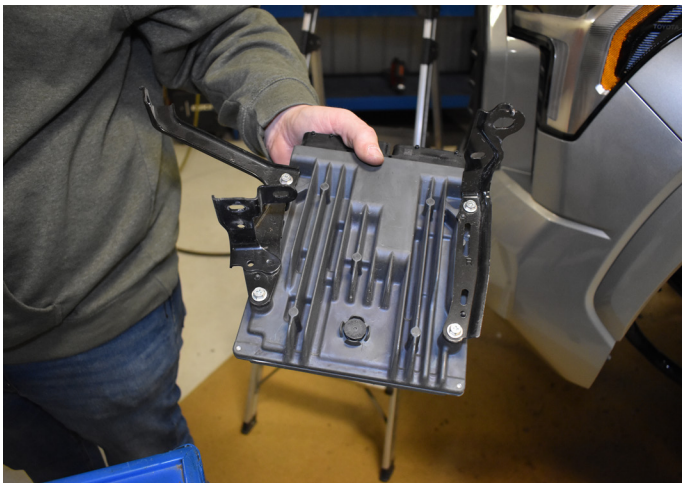


Figure 17

» UPPER CONTROL ARM REMOVAL

21. Raise the front of the vehicle off the ground and remove the front wheels.
22. Remove the driver side brake line shield by pulling of carefully. **Fig. 18**



Figure 18

23. Loosen the UCA bolt and nut. **Fig. 19,20**



Figure 19



Figure 20

24. Remove cotter key from ball joint. **Fig. 21**



Figure 21

25. Remove ABS line bracket bolt. **Fig. 22**



Figure 22

26. Remove ball joint castle nut. **Fig. 23**



Figure 23

27. DO NOT STRIKE aluminum knuckle with hammer. Using SST : 09628-62011 tool, separate the upper ball joint from the steering knuckle. **Fig. 24**

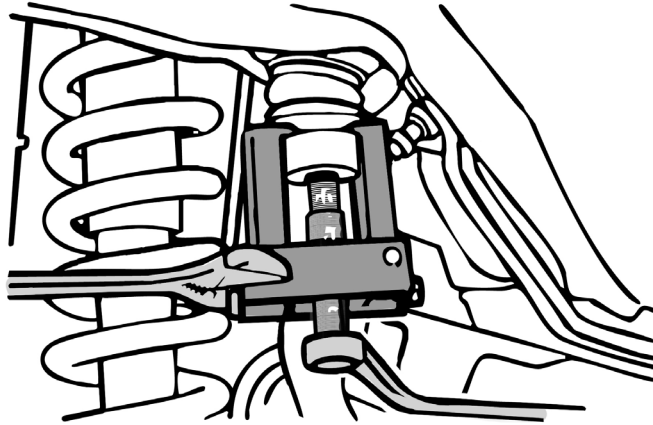


Figure 24

28. Remove UCA bolt and feeding bolt out and into the space made by the removal of the PCM and air box. Retain bolt, nut and washers for reuse. NOTE: Bolt can be reinstalled in opposite direction during reassembly to ease any need for future removals. **Fig. 25,26**



Figure 25

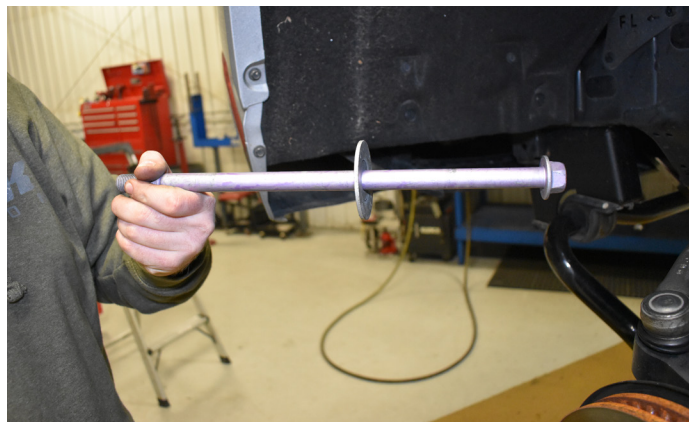


Figure 26

» UPPER CONTROL ARM INSTALLATION

29. Install new UCA using factory bolt, nut and washers. NOTE: Ensure that the 4 stamped marks on the washer are facing out when re-installed. DO NOT TIGHTEN UCA BOLT UNTIL THE VEHICLE IS ON THE GROUND AND UNDER LOAD. **Fig. 27**

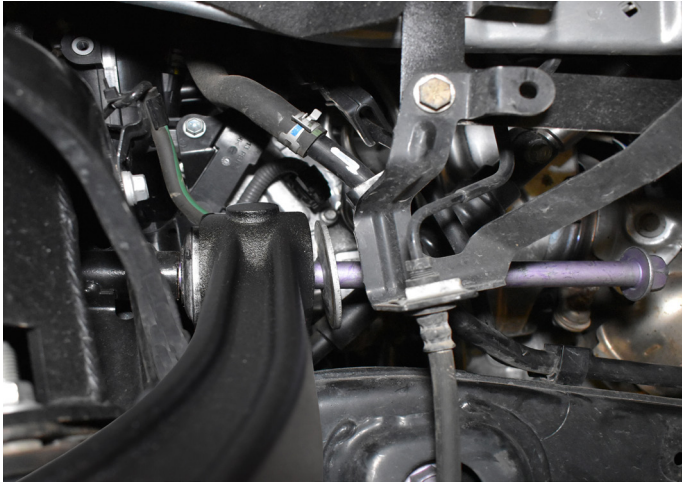


Figure 27

30. Attach UCA ball joint to knuckle using provided washer and nut in bolt pack BP1068. Torque to 92 ft-lb. **Fig. 28 Do not use the provided flange nut that came with the ball joint.**

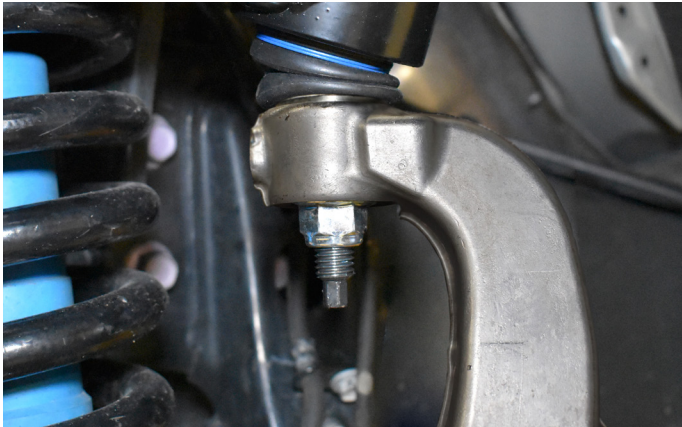


Figure 28

31. Remove ABS line from the ABS bracket by bending the bracket loop tabs. Discard bracket. **Fig. 29**

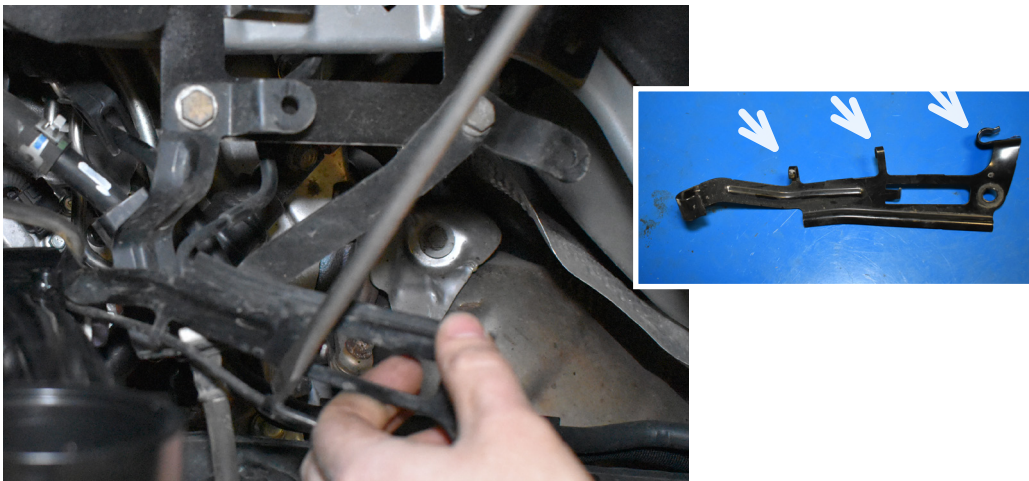


Figure 29

32. Attach ABS line to UCA using provided cable loops, bolt and washer found in bolt pack 390. Slide line up to so that sheathing is held by the clamp. **Fig. 30, 31**

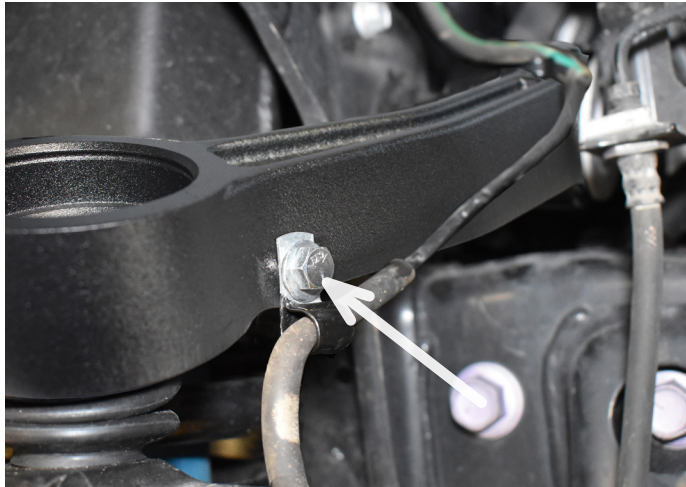


Figure 30

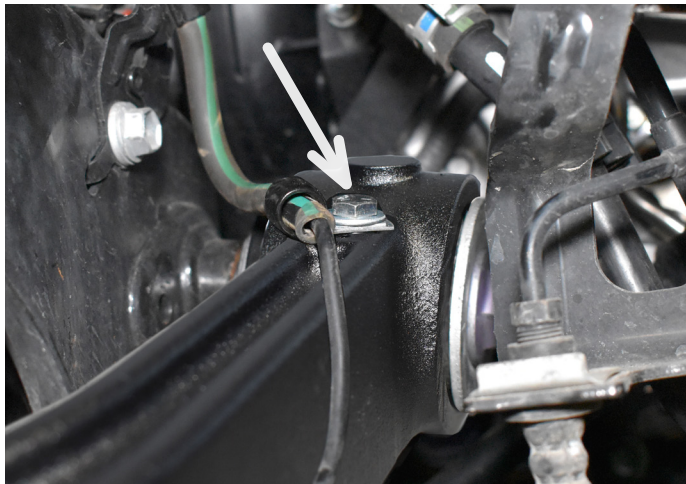


Figure 31

33. Grease ball joint. Grease O-ring, install on ball joint cap, install in UCA. **Fig. 32, 33**

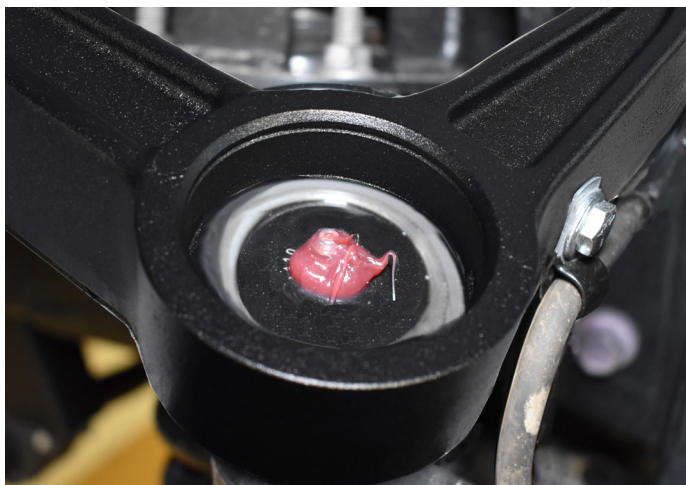


Figure 32

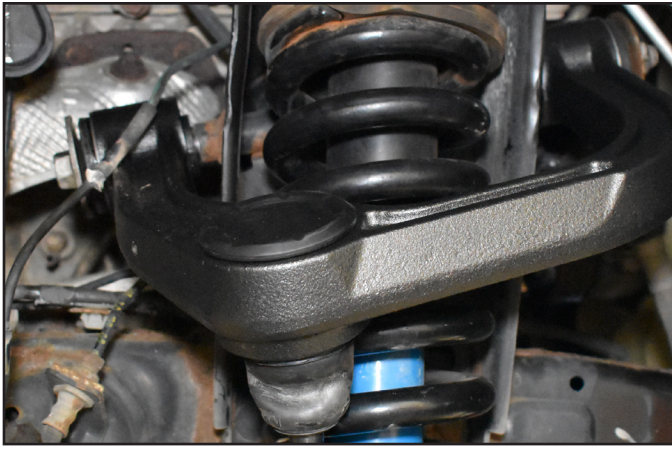


Figure 33

34. Re-install the brake line shield.
35. Re-install PCM by reversing steps 12-8. Torque PCM bolts to 40 in-lb.
36. Re-install Airbox and Airbox Hose by reversing steps 7-5
37. Support the driver side LCA. Remove the lower strut bolt and Upper Strut bolts (4x). Don't loosen the center one on top. **Fig. 34, 35**



Figure 34



Figure 35

38. Support the Knuckle by the hub with a jack or jack stand. Remove the two bolts to separate the knuckle. Loosen the Cam bolts and swing down the lower control arm. Remove strut downward. **Fig. 36A, 36B**



Figure 36A



Figure 36B

39. Place strut in strut compressor remove top mount. Install pre-load spacer. Reinstall top mount. Clock top mount with top spacer on it to have line face out. Mark the lower eye in accordance to the upper top hat where it says "OUT" **Fig. 37** Insert four 10mm x 40 bolts from bolt pack 388 into the provided top spacer. Mount the provided top hat spacer onto the strut. It will only go on one way. Fasten it down using the OE nuts and torque to 48 ft-lbs **Fig. 38**



Figure 37



Figure 38

40. While the strut is in the spring compressor. Rotate it so the “|” on top faces outward towards you when installed. Ensure the spring is seated in the rubber spring retainer before releasing tension. **Fig. 39**

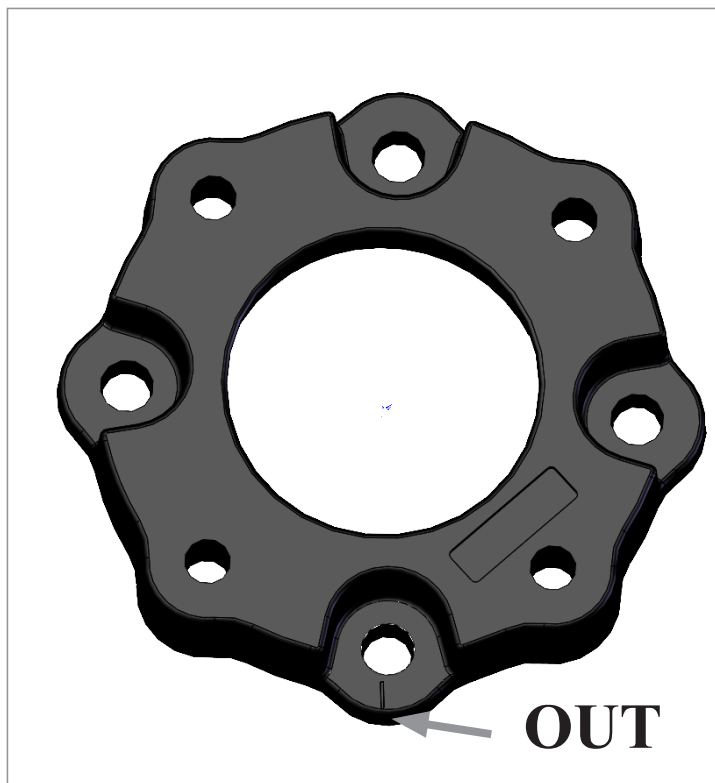


Figure 39

41. Reinstall the strut with top spacer into the vehicle. Fasten the lower mount with the OE bolt, it will be torqued later. Use the 10mm nuts and 7/16” washer from bolt 388 to secure the top of the strut to the frame. Torque 10mm nuts to 37 ft-lbs. Repeat strut top had installation procedure for the other side.
42. Remove the factory front bump stops. Install the 1” thick spacer on the bump stop studs and reinstall. Driver and Passenger side. Cut approximately 1/4” off the factory threads. Thread into bump then into frame. If the bump stop does not fully seat cut off more thread. Part # 02954 **Fig. 40**



Figure 40

43. Reconnect the sway bar links to the lower control arm. Torque to 111 ft-lbs **Fig. 41**



Figure 41

44. Reconnect the brake line bracket to the frame with OE hardware, torque to 21 ft-lbs.
45. If equipped reattach the auto front spoiler to its mount with OE hardware, Torque to 12 ft-lbs, Some trimming of the front spoiler may be necessary around the sway bar bracket.
46. With both sides fully reassembled, Reinstall the wheels and lower vehicle to the ground.
47. Torque the wheels according to OE specs
48. Roll vehicle back and forth to get it to settle. Torque the UCA to 136 ft-lbs. Torques LCA hardware to 123 ft-lbs.
49. Check all hardware for proper torque.
50. Vehicle will need an alignment done.
51. Recheck all fasteners after 500 miles and at regular scheduled maintenance intervals.

» REAR DISASSEMBLY

52. Park vehicle on clean flat and level surface. Block the front wheels for safety.
53. Raise the rear of the vehicle, support the frame rails with jackstands and remove wheels.
54. Remove bump stop bracket from frame. **Fig. 42**



Figure 42

55. Disconnect sway bar links from frame bracket. **Fig. 43**



Figure 43

56. Disconnect ABS/e-brake line bracket from axle. **Fig. 44**



Figure 44

57. Disconnect brake line bracket from the frame. **Fig. 45**

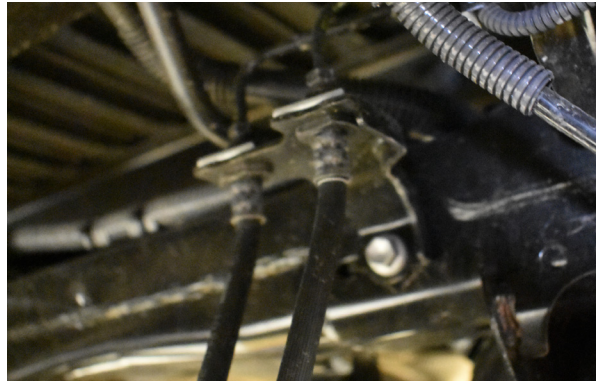


Figure 45

58. 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. 46**



Figure 46

59. Support rear axle with a jack.

60. Disconnect Shock from axle and frame. **Fig. 47, 48**



Figure 47

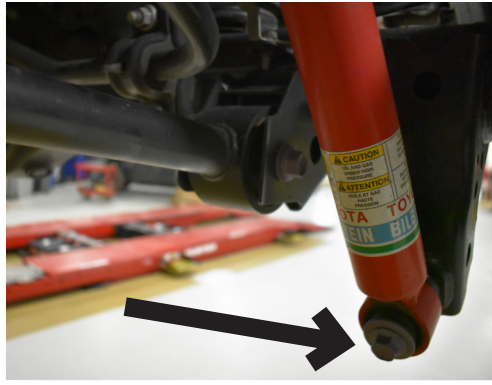


Figure 48

61. Lower axle with jack and remove spring. **Fig. 49**



Figure 49

» REAR SPACER INSTALLATION

62. Install spring spacer using 1 provided 7/16" bolts, nut and washer BP386. **Fig. 50**



Figure 50

63. 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.

64. Install factory springs and isolators - pulling down on the differential to allow space for the spring to slide into place. **Fig. 51**



Figure 51

65. 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. 52, 53**



Figure 52



Figure 53

66. Reconnect sway bar links with factory hardware. Torque to 55ft-lb. **Fig. 54**



Figure 54

67. 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. 55**



Figure 55

68. Bolt on the brake lines extension bracket to the frame 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. 56**



Figure 56

69. 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. 57**



Figure 57

70. Install bump stop bracket to frame using provided 1/4" spacer for the top bracket hole and OEM hardware. Torque to 15 ft-lb **Fig. 58A, 59B**



Figure 58A



Figure 58B

» **AIR VALANCE TRIMMING**

71. To provide clearance for sway bar drop bracket, test fit provided drop brackets and trim valance as needed using adequate saw or hot knife. **Figure 59, 60**



Figure 59



Figure 60

Post Installation

72. Remount wheels and torque lugnuts to OE specifications.
73. Lower vehicle to ground.
74. Double check all fasteners for proper torque.
75. Check all moving parts for clearance.
76. Complete a full radius turning check to ensure that no interference occurs.
77. Align headlights
78. Double check the brake lines for adequate slack at full wheel travel.
79. Complete a vehicle alignment.
80. Check all fasteners after 500 miles
81. 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..

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.