



T5303 Installation Instructions 2022+ Toyota Tundra, 2023+ Toyota Sequoia Upper Control Arms

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

SST : 09628-62011 Ball joint separation tool

Tire/Wheel Fitment

6-7/8 BS (OE TRD Wheel)
6-1/8" BS Wheel
5-1/2" BS Wheel
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.**

T5303 Kit Contents

Qty Part

1	A484 - 2022 Tundra UCA - Drv
1	A485 - 2022 Tundra UCA - Pass
1	Bag Kit - B1681
2	Ball Joint Cap - Zone
2	O Ring
1	Multi Purpose Grease, Packet
1	Bolt Pack - 390
4	1/4"-20 x 3/8" Bolt

4	1/4" Lock Washer
4	Wire Clamp
1	Bolt Pack - BP1068
2	3/8"-16 x 1" Flat Head Cap ScREW
2	3/8" SAE Flat Washer
2	3/8"-16 NyLoc Nut
4	1/2"-20 NyLoc Nut
4	1/2" SAE Flat Washer

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

» PCM AND AIRBOX REMOVAL

1. Park vehicle on clean, flat, and level surface.
2. Block the rear wheels for safety
3. Disconnect battery.
4. In order to remove driver side UCA(Upper Control Arm) bolt, the factory airbox and PCM must first be removed.
5. Disconnect wire harness from air box. **(Fig. 1)**



Figure 1

6. Loosen the air hose clamp. **(Fig. 2)**



Figure 2

7. Remove Air box by pulling up and out. **(Fig. 3)**



Figure 3

8. Remove PCM(Power Control Module) wire harness clip by pressing out on the clip tabs on both sides using a flat head screwdriver. **(Fig. 4)**



Figure 4

9. Remove the three PCM harness connectors by flipping the 3 gray locking switches. **(Fig. 5,6,7)**

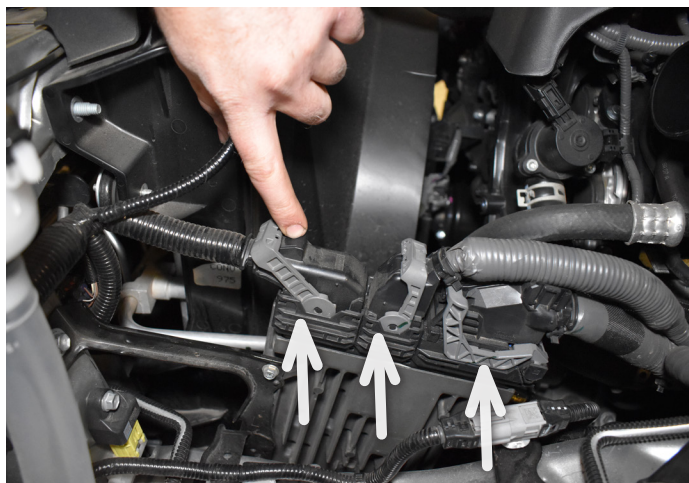


Figure 5



Figure 6

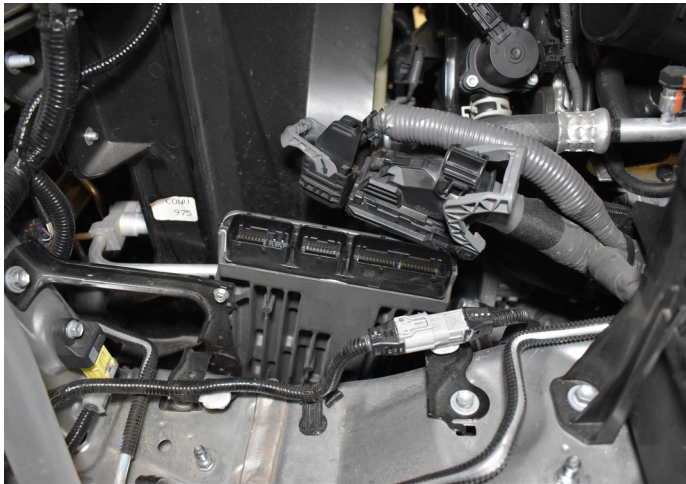


Figure 7

10. Remove 3 harness clips. **(Fig. 8)**

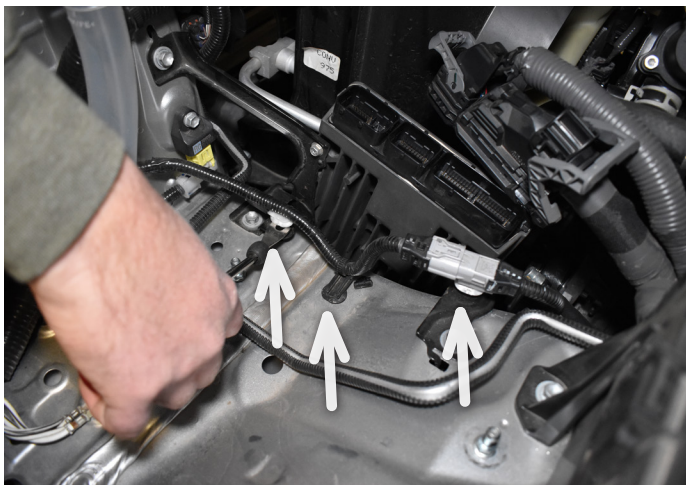


Figure 8

11. Remove the 3 PCM bracket bolt. **(Fig. 9)**

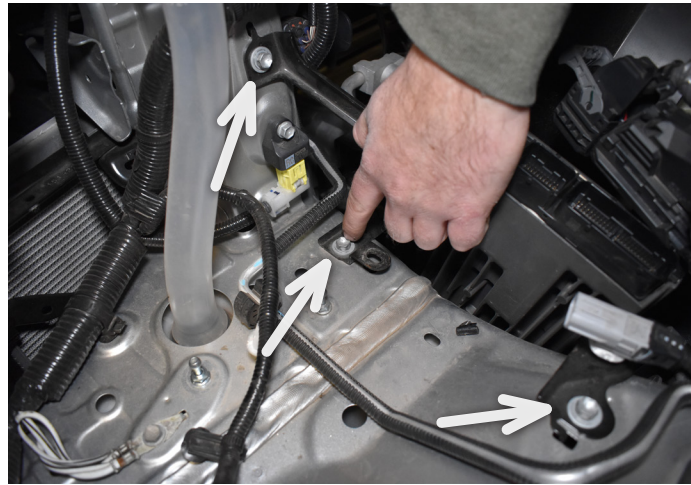


Figure 9

12. Carefully remove PCM and set aside in a secure location. **(Fig. 10)**

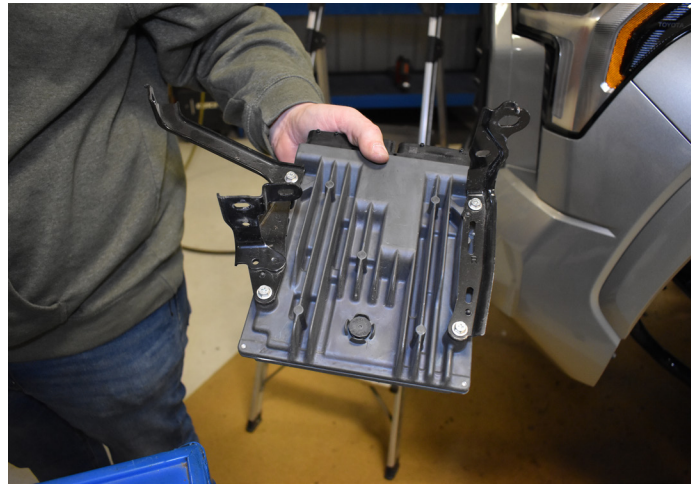


Figure 10

» UPPER CONTROL ARM REMOVAL

13. Raise the the front of the vehicle off the ground and remove the front wheels.
14. Remove the driver side brake line shield by pulling of carefully. **(Fig. 11)**



Figure 11

15. Loosen the UCA bolt and nut. **(Fig. 12,13)**



Figure 12

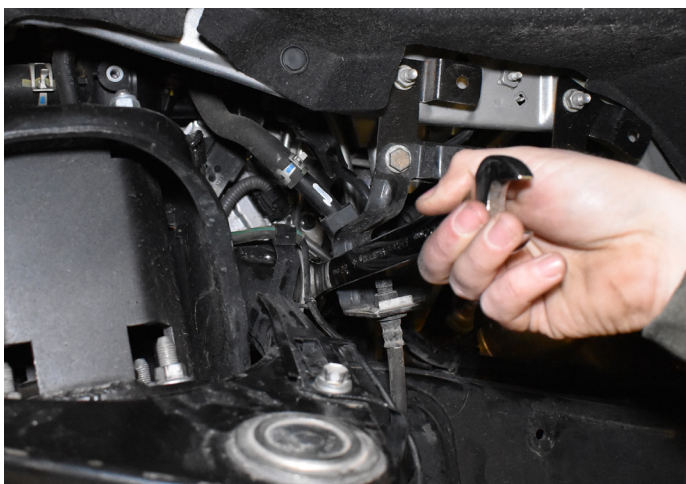


Figure 13

16. Remove cotter key from ball joint. **(Fig. 14)**



Figure 14

17. Remove ABS line bracket bolt. **(Fig. 15)**



Figure 15

18. Remove ball joint castle nut. **(Fig. 16)**



Figure 16

19. DO NOT STRIKE aluminum knuckle with hammer. Using SST : 09628-62011 tool, separate the upper ball joint from the steering knuckle. **(Fig. 17)**

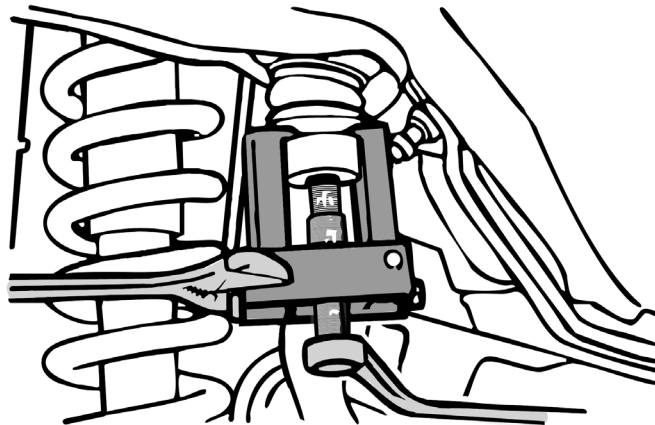


Figure 17

20. 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. 18,19)



Figure 18

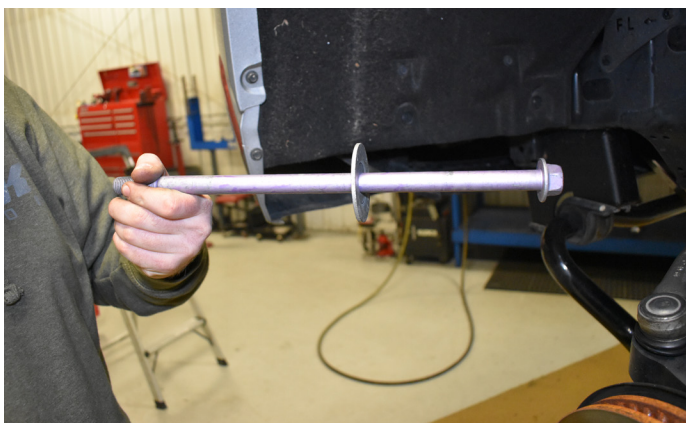


Figure 19

» UPPER CONTROL ARM INSTALLATION

21. Install new control arm with factory hardware and new washers. Snug, but do not torque bolt. (Fig. 20A, 20B)

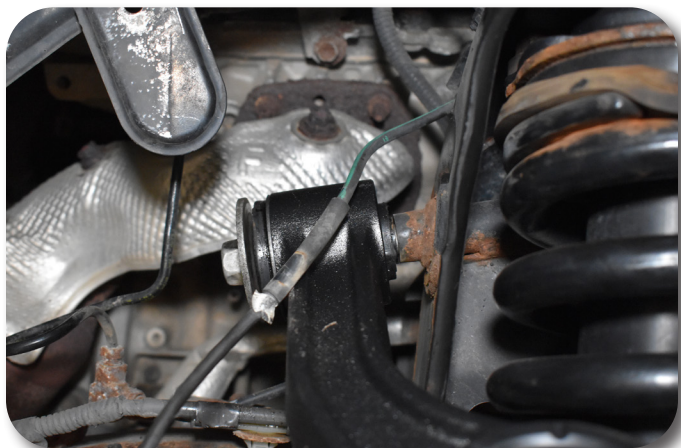


Figure 20A

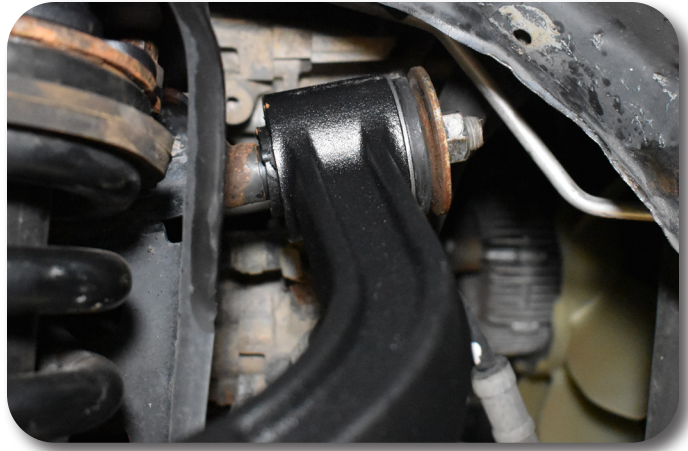


Figure 20B

22. GREASE BALL JOINT at this time! Install the O-ring on cap with grease from the included grease packet to aid installation. Install cap. Cap must be removed to access grease fitting for future maintenance. (Fig. 21)

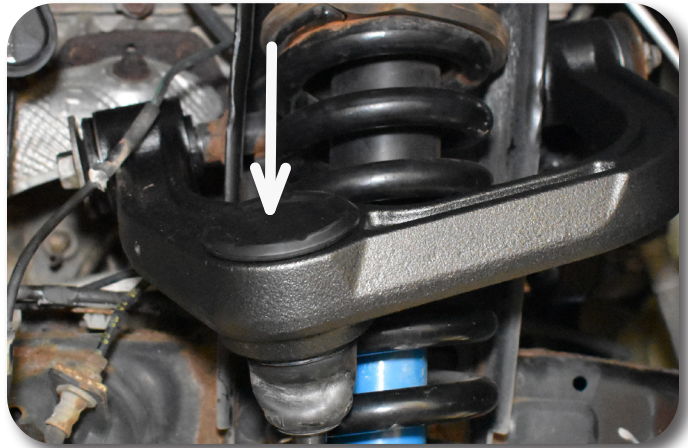


Figure 21

23. Attach to the steering knuckle at this time with new hardware. Tighten ball joint hardware to 81 ft-lbs. Install cotter pin, do not loosen the nut to install the cotter pin. (Fig. 22) **Note: Do not use the provided flange nut that came with the ball joint. Use Hardware in BP1068**



Figure 22

24. Remove the ABS line from the UCA bracket by bending up the loop holding the brake line. Discard bracket.
25. Using the provided loop clamps, bolt and washer, attach the ABS line to the UCA on the side and near the rear pivot. **(Fig. 23)**

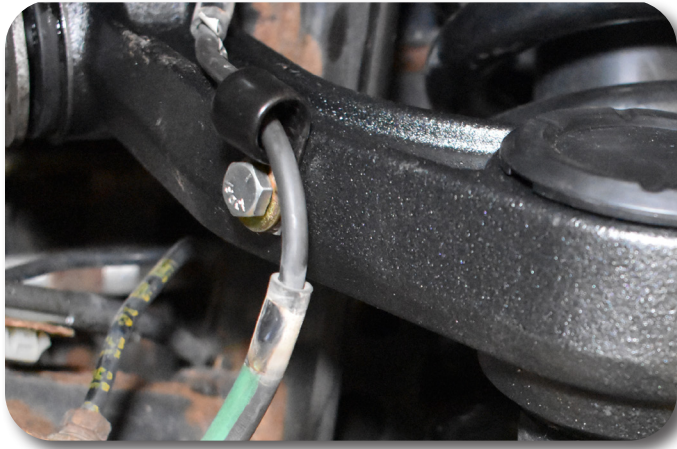


Figure 23

26. Re-install the brake line shield.
27. Re-install PCM by reversing steps 12-8. Torque PCM bolts to 40 in-lb.
28. Re-install Airbox and Airbox Hose by reversing steps 7-5
29. Reinstall wheels and torque lug nuts to factory specifications.
30. Lower the vehicle to the ground and torque upper control arm hardware to 122 ft-lbs.
31. Align vehicle.

» **BALL JOINT SERVICE**

32. Recheck hardware after 500 miles.
33. Remove the cap and grease the ball joint at regular service intervals.