



INSTALLATION MANUAL

Vehicle: Stock Width Billet Upper Control Arm | 22+ Toyota Tundra

Kit Part # BJK8111003

Level 1 Install: Bolt On
Install Time: 2 hours (approximate)

****NOTE:** Read through entire installation manual before deciding whether to attempt the procedure. Do not attempt if you do not possess the proper know-how and tools necessary to complete the installation.



BEFORE YOU START

Baja Kits 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.

FOR YOUR SAFETY

Certain Baja Kits 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. Baja Kits 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.

BEFORE INSTALLATION

- Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
- Secure and properly block vehicle prior to installation of Baja Kits components. Always wear safety glasses when using power tools.
- 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.

BEFORE YOU DRIVE

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.

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.

Perform head light check and adjustment.

Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.

**FOR ANY TECHNICAL QUESTIONS OR SUPPORT,
PLEASE CONTACT BAJA KITS**

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Billet Upper Control Arm | Toyota Tundra

Item	Quantity	BJK8111003
A5081	1	Toyota Tundra - Chase Kit - Billet UCA -DS
A5082	1	Toyota Tundra - Chase Kit - Billet UCA -PS
B5084	2	Toyota Tundra - Billet UCA - Misalign Kit
	4	Bolt: 1/4 20 x 1 Socket Head Screw
	2	Misalignment: 1 x .563 x .740 Stepped Boss
	2	Misalignment: 1 x .563 x .959 Stepped Boss
	2	Hardware: Jam Nut: 3/4 16 Jam Nut
	2	Hardware: Rod Ends: 3/4" Rod End
B5085	2	Toyota Tundra - Billet UCA - Misalign Kit
	1	1/2-20 Nylock Nut Clear
	1	Hardware: 3/8 x 1 3/8 Loop Clamp
	1	Hardware: Stepped 1/2 Washer
	1	Hardware: Billet UCA Uniball Cap
	1	Misalignment: Spherical, Sunk Misalignment 1/2"
	4	Hardware: 10-32 x 3/8 Button Head Hex Drive Screw
	1	Hardware: 1/4 20 x .5 18-8 SS Button Head Hex Drive Screw
	1	Hardware: 1/2 20 x 4.5 - 12 Point
	1	Hardware: O-Ring
	1	Misalignment: UCA Taper

Recommended Tools

Manufacturer Torque Specs

Red Loctite

Tape Measure

4mm Hex Bit

3/16" Bit

Ball Joint Separator, SST: 09628-62011

Important Notes

Medium-strength thread-lock is recommended on all bolts.



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PCM AND AIRBOX REMOVAL

1. Park vehicle on clean, flat, and level surface.
2. Block the rear wheels for safety
3. Lift front of vehicle with Jack and place Jackstands under the frame rails. Ensure the vehicle is secure.
4. Remove the front tires.
5. Disconnect battery.
6. In order to remove driver side UCA(Upper Control Arm) bolt, the factory airbox and PCM must first be removed.
7. Disconnect wire harness from air box. (Fig. 1)



FIGURE 1

8. Loosen the breather hose clamp and disconnect. (Fig. 2)



FIGURE 2

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



FIGURE 3

10. 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, 5)



FIGURE 4



FIGURE 5

11. Remove the three PCM harness connectors by flipping the 3 gray locking switches. (Fig. 6)

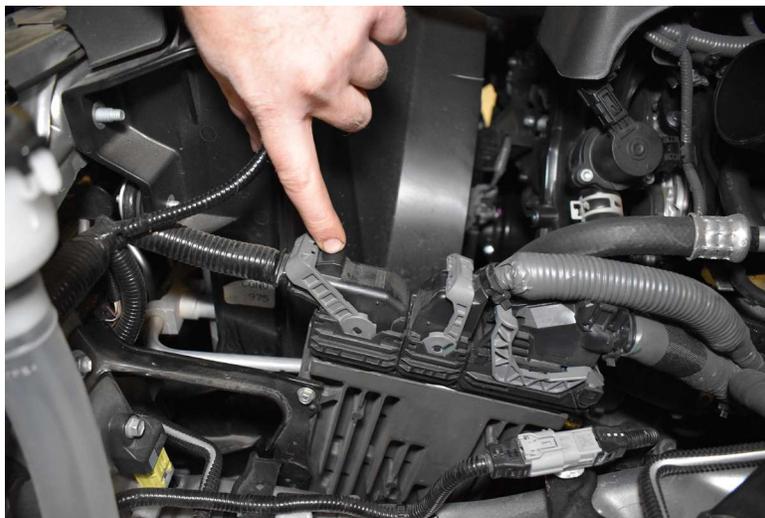


FIGURE 6

12. PCM harness connector 2 (Fig. 7)



FIGURE 7

13. PCM harness connector 3 (Fig. 8)



FIGURE 8

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14. Remove 3 harness clips. (Fig. 9)



FIGURE 9

15. Remove the 3 PCM bracket bolts. (Fig. 10)



FIGURE 10

16. Carefully remove PCM and set aside in a secure location. (Fig. 11)

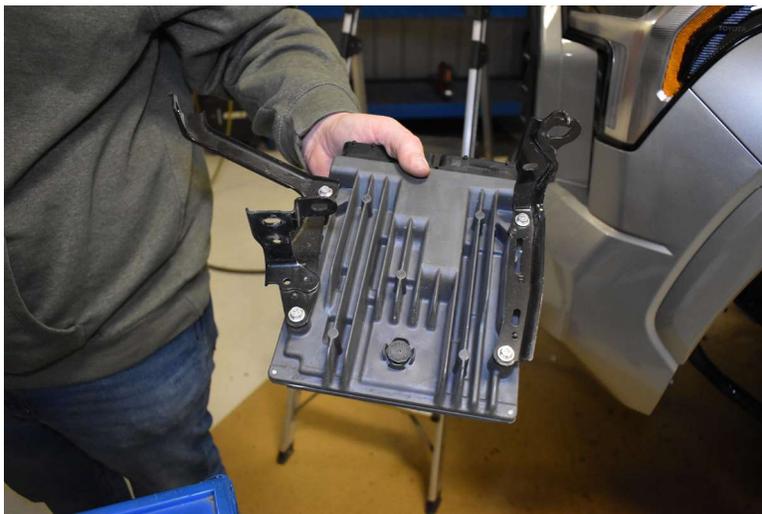


FIGURE 11

UPPER CONTROL ARM REMOVAL

17. Remove the driver side brake line shield by pulling off carefully. (Fig. 12)



FIGURE 12

18. Loosen the UCA bolt and nut. (Fig. 13, 14)



FIGURE 13



FIGURE 14

19. Remove cotter key from ball joint. (Fig. 15)



FIGURE 15

20. Remove ABS line bracket bolt. (Fig. 16)

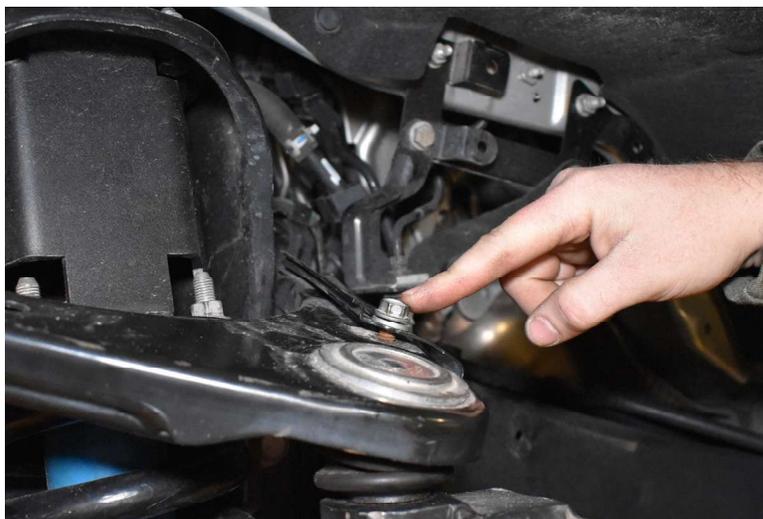


FIGURE 16

21. Remove ball joint castle nut. (Fig. 17)



FIGURE 17

22. Dislodge ball joint using the recommended Ball Joint Separator, SST: 09628-62011.

23. 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

UCA ASSEMBLY

24. Assemble heims by installing jam nut. Anti-seize is recommended - (Fig. 20, 21)



FIGURE 20



FIGURE 21

25. Install heims into arms, measure from the arm to the end of threads should be $5/8$ " (Fig. 22)

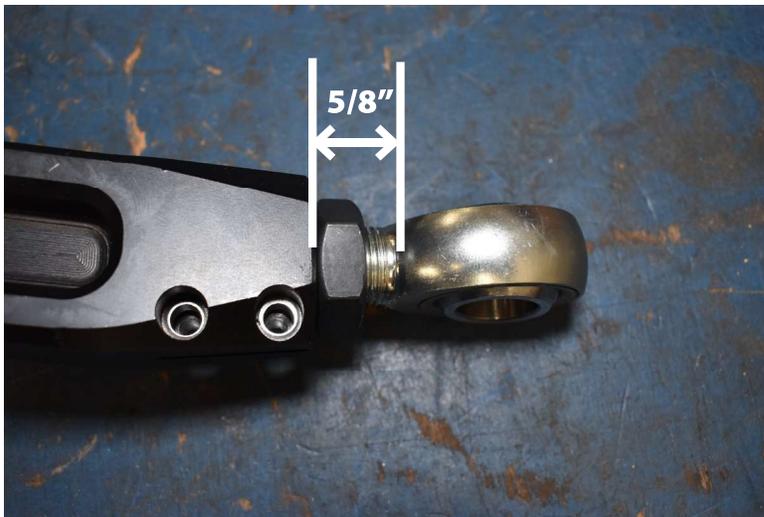


FIGURE 22

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26. The wider Inner pivot misalignments are installed on the inside of the arms.(Fig. 23A, 23B)



FIGURE 23A



FIGURE 23B

27. Using the OE UCA Bolt, temporarily install through the arm ends to keep the from spinning when tightening the jam nut. (Fig. 24)



FIGURE 24

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28. Loctite then Install and tighten the 4 - pinch bolts into arm. 107in.lbs. (Fig. 25, 26)



FIGURE 25



FIGURE 26

29. Tighten the jam nuts. (Fig. 27)



FIGURE 27

UPPER CONTROL ARM INSTALLATION

30. Install new UCA using factory bolt and nut. NOTE: DO NOT RE-USE OE WASHERS. (Fig. 28)



FIGURE 28

31. Install sunken misalignment into the top of the UCA uniball and run provided 12pt bolt through misalignment. (Fig. 29)



FIGURE 29

32. Install the tapered misalignment into the bottom of the UCA uniball. (Fig. 30)



FIGURE 30

33. Align the uniball up with the knuckle and insert the taper into the knuckle. (Fig. 31)



FIGURE 31

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34. Place step washer with steps upward onto bolt. (Fig. 32)



FIGURE 32

35. Attach UCA ball joint to knuckle using provided nylock nut. Torque to 80 ft-lb. (Fig. 33)



FIGURE 33

36. Remove ABS line from the ABS bracket by bending the bracket loop tabs. Discard bracket. (Fig. 34, 35)



FIGURE 34

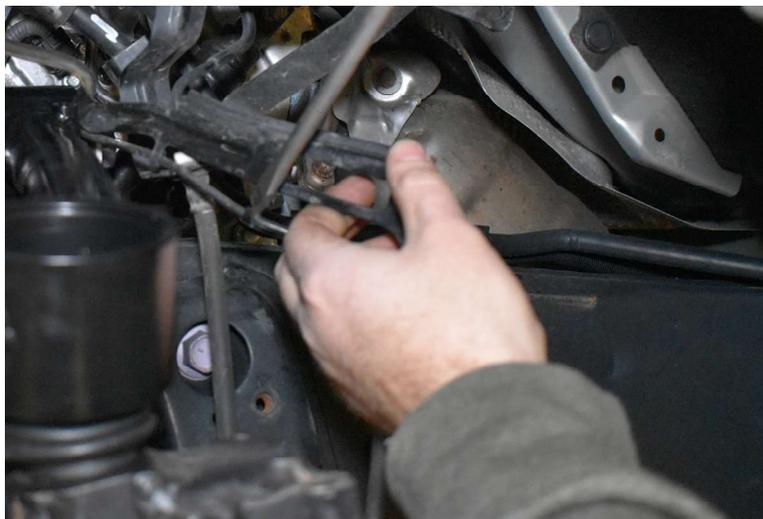


FIGURE 35

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37. 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. 36, 37)



FIGURE 36



FIGURE 37

38. Install uniball cap, align holes, loctite and install 4 - socket screws. (Fig. 38)



FIGURE 38

39. Re-install the brake line shield.
40. Re-install PCM by reversing steps 14-8. Torque PCM bolts to OE specifications.
41. Re-install Airbox and Airbox Hose by reversing steps 7-5
42. Reinstall wheels and torque lug nuts to factory specifications.
43. Repeat procedures on passenger side. (Passenger side UCA bolt can slide out without major component uninstillation.)
44. Lower the vehicle to the ground and torque upper control arm hardware to OE specifications.
45. Align vehicle
46. Re-check hardware after 500 miles.