

BDS 010824 Upper Control Arm Kit



BDS 010824 Upper Control Arm Kit Installation Guide

[Home](#) » [BDS](#) » BDS 010824 Upper Control Arm Kit Installation Guide 

Contents

- [1 BDS 010824 Upper Control Arm Kit](#)
- [2 CONTENTS OF YOUR KIT](#)
- [3 TROUBLESHOOTING INFORMATION FOR YOUR VEHICLE](#)
- [4 INSTALLATION INSTRUCTIONS](#)
- [5 Documents / Resources](#)
 - [5.1 References](#)
- [6 Related Posts](#)



BDS 010824 Upper Control Arm Kit



Read And Understand All Instructions And Warnings Before Installation Of the System And Operation Of the Vehicle.

THANK YOU

Your truck is about to be fitted with the best suspension system on the market today. That means you will be driving the baddest-looking truck in the neighborhood, and you'll have the warranty to ensure that it stays that way for years to come. Thank you for choosing BDS Suspension!

BEFORE YOU START

BDS Suspension Co. 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 BDS 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. BDS Suspension Co. 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 the vehicle. Refer to the manual for proper disassembly/reassembly procedures of OE and related components.
- Adhere to recommendations when replacement fasteners, retainers, and keepers are called out in the OE manual.
- 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.
- Post-suspension system vehicles may experience drive line vibrations. Angles may require tuning, the slider on the shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
- Secure and properly block the vehicle before the installation of BDS Suspension components. Always wear safety glasses when using power tools.
- If installation is to be performed without a hoist, BDS Suspension Co. recommends rear alterations first.
- Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary by the original vehicle attitude. Always measure the attitude before beginning installation.



BEFORE YOU DRIVE

Check all fasteners for proper torque. Check to ensure 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 the steering gear for clearance. Test and inspect the brake system. Perform a 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 headlight check and adjustment. Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.

CONTENTS OF YOUR KIT

Box Kit #128254		
Part #	Qty	Description
390	2	Bolt Pack
	4	1/4"-20 x 3/8" Bolt, Grade 5, Clear Zinc
	4	1/4" Lock Washer, Clear Zinc
	4	Wire Clamp
BP1068	1	Bolt Pack
	2	1/2" USS Washer. Clear Zinc
	2	14mm-2.00 Nylon Locknut, Clear Zinc
2911	2	Ball Joint Cap
45NA53	2	Multi-Purpose Grease, Packet, 1cc
9452K145	2	O Ring
A451	1	2022 Tundra UCA – Drv
A452	1	2022 Tundra UCA – Pass

TROUBLESHOOTING INFORMATION FOR YOUR VEHICLE

1. Do NOT hit the aluminum knuckle on later model trucks with a hammer to separate the ball joint. Use the appropriate ball joint separation tool.

INSTALLATION INSTRUCTIONS

PCM AND AIRBOX REMOVAL

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

FIGURE 1



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

FIGURE 2



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

FIGURE 3



8. Remove the PCM(Power Control Module) wire harness clip by pressing out on the clip tabs on both sides using a flathead 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

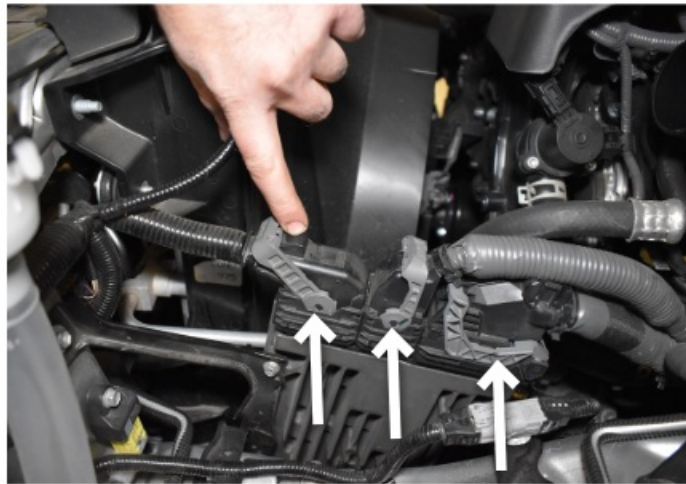


FIGURE 6



FIGURE 7



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

FIGURE 8



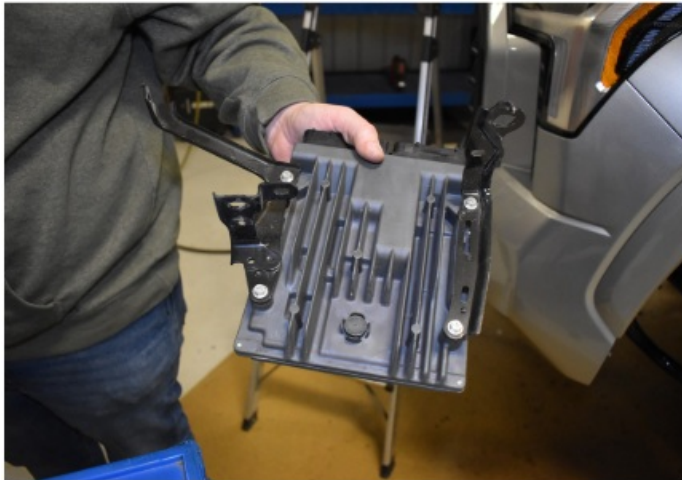
11. Remove the 3 PCM bracket bolt. (Fig. 9)

FIGURE 9



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

FIGURE 10



UPPER CONTROL ARM REMOVAL

13. Remove the driver-side brake line shield by pulling of carefully. (Fig. 11)

FIGURE 11



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

FIGURE 12



FIGURE 13



15. Remove the cotter key from the ball joint. (Fig. 14)

FIGURE 14



16. Remove the ABS line bracket bolt. (Fig. 15)

FIGURE 15



17. Remove the ball joint castle nut. (Fig. 16)

FIGURE 16



18. Dislodge the ball joint by striking the knuckle with a hammer, or using a pickle fork which is recommended for aluminum knuckles.
19. Remove the CA bolt and feeding bolt out and into the space made by the removal of the PCM and air box. Retain bolts, nuts, and washers for reuse.

NOTE: Both the bolt can be reinstalled in the opposite direction during reassembly to ease any need for future removals. (Fig. 17,18)

FIGURE 17



FIGURE 18



UPPER CONTROL ARM INSTALLATION

20. Install new UCA using factory bolts, nuts, and washers. NOTE: Ensure that the 4 stamped marks on the washer

are facing out when reinstalled. DO NOT TIGHTEN UCA BOLT UNTIL THE VEHICLE IS ON THE GROUND AND UNDER LOAD. (Fig. 19)

FIGURE 19



21. Attach the UCA ball joint to the knuckle using the provided washer and nut in bolt pack BP1068. Torque to 92 in-lb. (Fig. 20) Do not use the provided flange nut that came with the ball joint.

FIGURE 20



22. Remove the ABS line from the ABS bracket by bending the bracket loop tabs. Discard bracket. (Fig. 21)

FIGURE 21



23. Attach ABS line to UCA using provided cable loops, bolt, and washer found in bolt pack 390. Slide line up so that sheathing is held by the clamp. (Fig. 22,23)

FIGURE 22

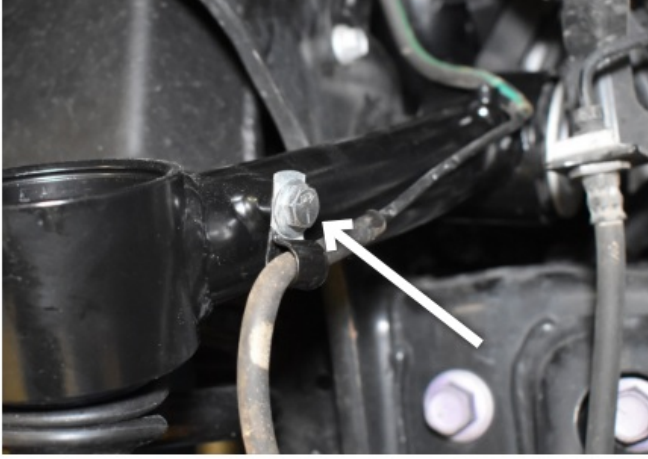
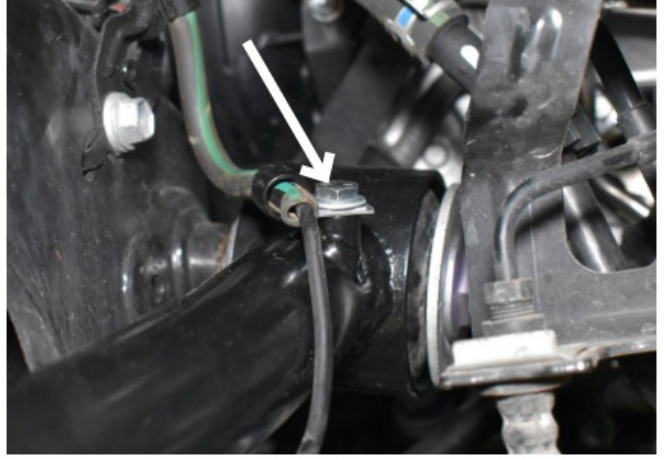


FIGURE 23



24. Grease ball joint. Grease the O-ring, install it on the ball joint cap, and install it in UCA. (Fig. 24,25)

FIGURE 24



FIGURE 25



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

BALL JOINT SERVICE

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

WE WANT TO SEE YOUR RIDE!




- Grab photos of your BDS-equipped truck in action and send them in for a chance to be featured. Send it in to our Bad Ass Rides customer gallery at bds-suspension.com/bar and post them on the BDS Fan Page on Facebook at facebook.com/BDSSuspensions. Don't forget about your BDS swag! BDS offers t-shirts, hoodies, decals, and more available on the BDS website or through your local BDS distributor.

TIME TO HAVE SOME EUN

Thank you for choosing BDS Suspension. For questions, technical support, and warranty issues relating to this BDS Suspension product, please contact your distributor/installer before contacting BDS Suspension directly.

- 491 W. Garfield Ave., Coldwater, MI 49036 .
- Phone: [517-279-2135](tel:517-279-2135)
- Web: www.bds-suspension.com.
- E-mail: tech-bds@ridefox.com

Documents / Resources

	<p>BDS 010824 Upper Control Arm Kit [pdf] Installation Guide 010824 Upper Control Arm Kit, Upper Control Arm Kit, Control Arm Kit, Arm Kit</p>
---	--

References

-  [Lift Kits and Components for Truck & Jeep | BDS Suspension](#)
- [User Manual](#)

Manuals+ Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.