

# INSTALLATION GUIDE



Part#: 128255



**HARDCORE LIMITED LIFETIME WARRANTY**

## Upper Control Arm Box Kit

Toyota Tacoma, LC250 | 2024-2025

LC300 | 2021-2024

Rev. 082225

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# Read And Understand All Instructions And Warnings Prior To Installation Of System And Operation Of 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 vehicle. Refer to 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, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
- Secure and properly block vehicle prior to 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 in accordance to original vehicle attitude. Always measure the attitude prior to beginning installation.



Visit [560plus.com](http://560plus.com) for more information.

### TIRES AND WHEELS

305/70R17 Tire w/ OE 17" Wheels\*

315/70R17 Tire w/ OE 17" Wheels\*\*

\*Widest tire with clearance to the UCA

\*\*Tire will be close to the UCA at full droop.



### 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.

# CONTENTS OF YOUR KIT

BDS128255 Box Kit		
Part #	Qty	Description
A476	1	BDS Upper Control Arm- Driver
A477	1	BDS Upper Control Arm - Passenger
B1597	1	Bag Kit - Tundra
02911	2	Ball Joint Cap
45NA53	1	Multi Purpose Grease, Packet, 1cc
9452K145	2	O Ring
974	2	Bolt Pack
	2	1/4"-20 x 5/8" Bolt
	2	1/4"-20 Serrated Edge Washer
	2	1/4" SAE Washer
	2	Wire Clamp
BP1068	1	Bolt Pack
	2	1/2" USS Washer
	2	14mm - Locknut



## TECH TIPS

### TROUBLESHOOTING INFORMATION FOR YOUR VEHICLE

1. Do not strike the knuckle with a hammer to dislodge the UCA. Knuckle damage can occur. Use ball joint separator 09628-62011.
2. Not recommended for a standard 2wd truck
3. Arms are designed to work with Fox Coilovers that require upper control arms and may not work with all aftermarket spacer lifts / lift kits. The ball joint angle has been indexed to allow for max range of motion with 2-3.5" lifts. If the upper ball joint is unable to be connected without preloading the suspension, a different spacer lift is recommended that will not over-droop the suspension system.
4. Ball joint cap must be removed for maintenance of ball joint. Remove cap to access grease fitting. Grease at regular maintenance intervals.
5. For replacement ball joints, order BDS088202. Ball joint IS directional.
6. For replacement bushings, order BDS088800.

# PRE INSTALLATION

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## 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

*Left Front* \_\_\_\_\_ *Right Front* \_\_\_\_\_

*Left Rear* \_\_\_\_\_ *Right Rear* \_\_\_\_\_

### AFTER

*Left Front* \_\_\_\_\_ *Right Front* \_\_\_\_\_

*Left Rear* \_\_\_\_\_ *Right Rear* \_\_\_\_\_



**\*\*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

## SPECIAL TOOLS

- Basic Hand Tools / Socket & Wrench Set
- Jack Stands
- Tape Measure
- Medium-Strength Thread Locker
- Torque Wrench
- 09628-62011 Ball Joint Separator (or Equivalent)

## DISASSEMBLY

1. Chock the rear wheels and raise the front of the vehicle. Use jack stands to secure vehicle.
2. Remove the front wheels.
3. Remove the splash guards using snap ring pliers. **(Fig. 1)**

**FIGURE 1**



4. Disconnect the ABS wire bracket bolts from the UCA. **(Fig. 2)**

**FIGURE 2**



5. Using a trim tool and screw driver remove all the inner fenders various attachment hardware. (Fig. 3A, 3B)

**FIGURE 3A**



**FIGURE 3B**



6. At the front is a hidden fastener that will need to be removed by pulling out the fender flare to gain accessing. (Fig. 4)

**FIGURE 4**



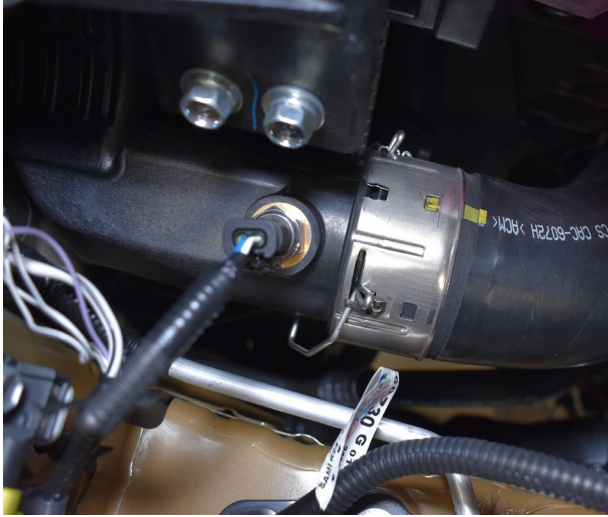
7. Remove inner fender. (Fig. 5)

**FIGURE 5**



8. Disconnect the intercooler line to allow space to remove the Upper Control Arm bolt. (Fig. 6A, 6B)

**FIGURE 6A**

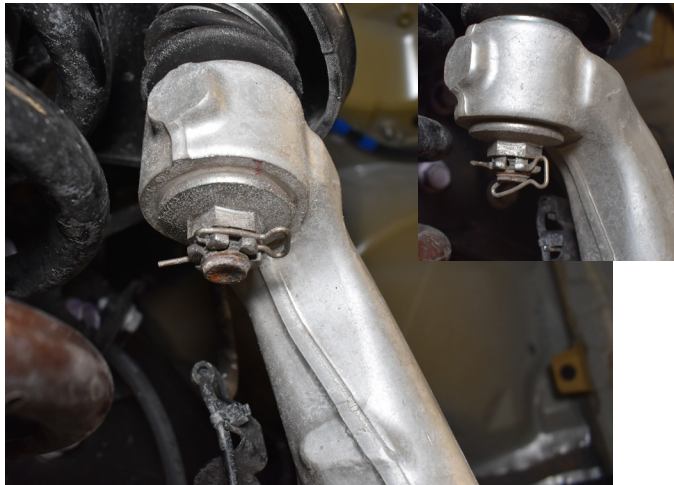


**FIGURE 6B**



9. Remove upper control arm ball joint taper castle nut retaining pin by rotating down and pulling out. (Fig. 7)

**FIGURE 7**



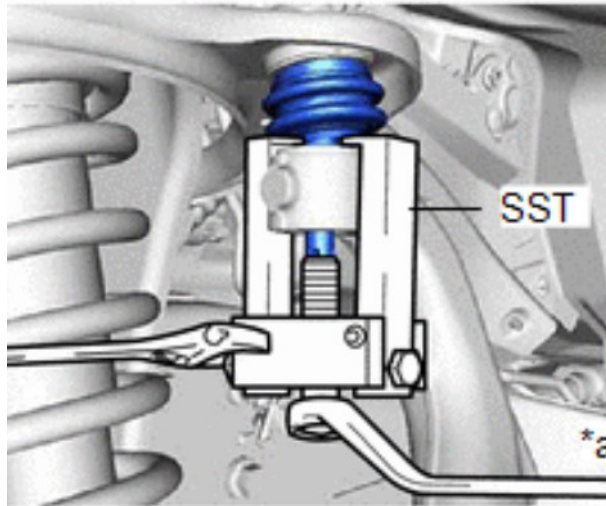
10. Loosen castle nut using a 19mm socket. Thread to the end of the threads. (Fig. 8)

**FIGURE 8**



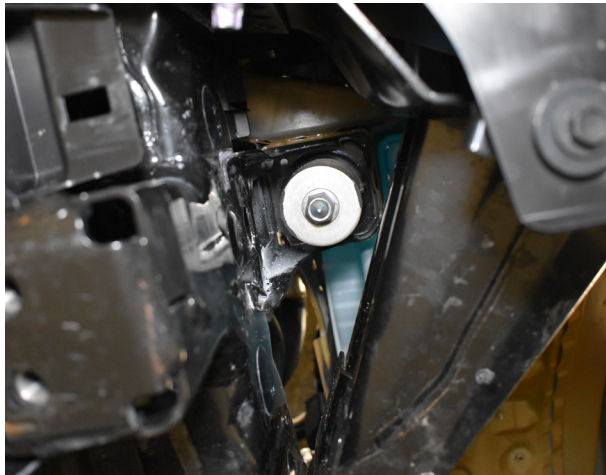
11. Use the recommended tool SST: 09628-62011 to dislodge the upper control arm from the knuckle. (Fig. 9)

**FIGURE 9**



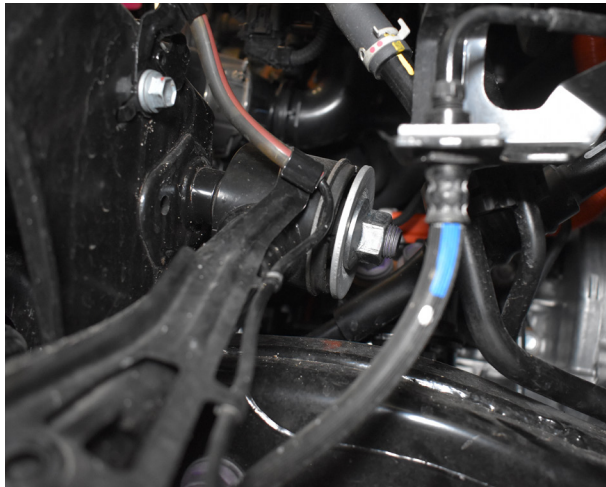
12. Loosen front cab/core support mount bolt but do not remove. (Fig. 10)

**FIGURE 10**



13. Loosen the upper control arm pivot hardware nut using a 22mm wrench. (Fig. 11)

**FIGURE 11**



14. Remove upper control arm bolt and washer. (Fig. 12)

**FIGURE 12**



15. Using a pry bar, pry on the inside body to help clear bolt head during removal. (Fig. 13)

**FIGURE 13**



16. Remove upper control arm bolt. (Fig. 14)

**FIGURE 14**



17. Remove upper control arm the vehicle. (Fig. 15)

**FIGURE 15**



If Installing New Coilovers. It Is Recommended That You Do This At This Time. Follow Manufactures Installation Instructions.

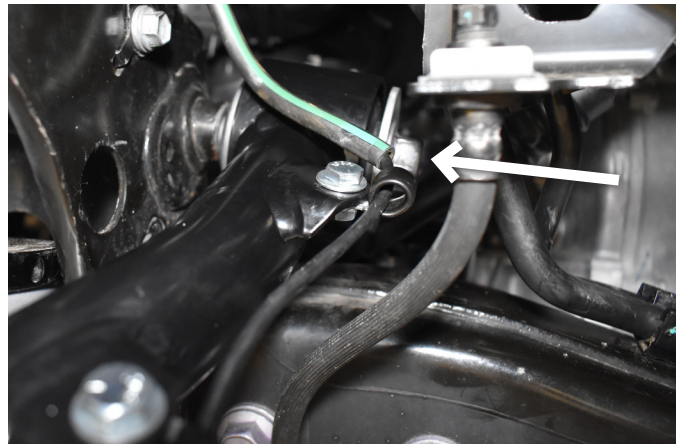
## UCA INSTALLATION

18. Install new upper control arm using factory bolt, nut and washers. Snug do not torque at this time. (Fig. 16A, 16B)

**FIGURE 16A**



**FIGURE 16B**



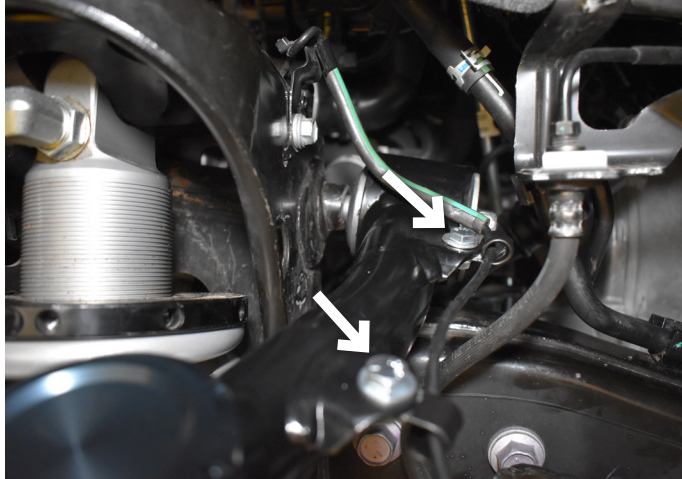
19. Install the taper into the knuckle. Install the provided 1/2" nylock nut and washer. Torque to (92 ft-lbs). (Fig. 17)

**FIGURE 17**



20. Attach the ABS wire bracket to the upper control arm brackets using the provided wire clamps and 1/4" hardware. Torque the 1/4" hardware to **(76 in-lbs)**. (Fig. 18)

**FIGURE 18**



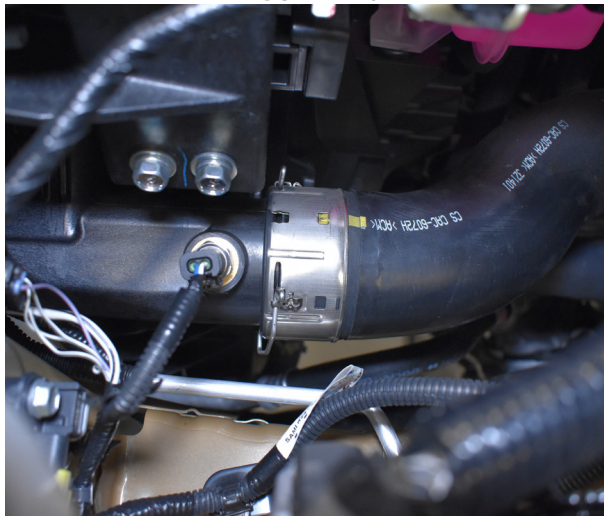
21. Install the O-ring onto the cap and lightly grease the O-ring to help seal the cap to the control arm. Line up the groove on the cap towards the inside of the vehicle. (Fig. 19)

**FIGURE 19**



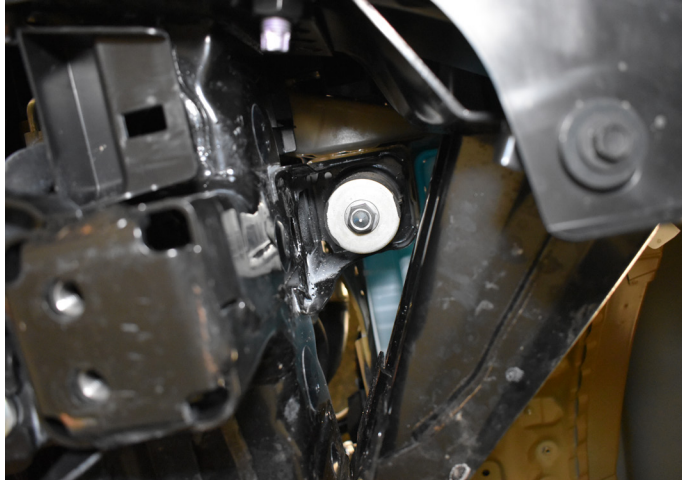
22. Re-Attach the intercooler line. (Fig. 20)

**FIGURE 20**



23. Tighten the cab body mount to OE specifications. (Fig. 21)

**FIGURE 21**



24. Re-Install the inner fender and all corresponding hardware.
25. Re-Install the 2 inner splash shields.
26. Re-Install wheels and lower vehicle to the ground.
27. Torque lugnuts to OE specifications.
28. Jounce vehicle several times.
29. Torque the UCA bolt/nut to **(136 ft-lbs)**.
30. Re-check hardware after 500 miles.

**ALIGN TO THESE SPECIFICATIONS:**

*Camber: 0.59 degrees +/-0.75 degrees (Min -0.16 to max 1.34 degrees)*

*Caster: 4.35 degrees +/-0.75 degrees (Min 3.6 to max 5.1 degrees)*

*Toe-in Angle: 0.10 degrees +/-0.16 degrees*



**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](http://bds-suspension.com/bar) and post them on the BDS Fan Page on Facebook at [facebook.com/BDSSuspensions](https://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.

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**TIME TO HAVE SOME FUN**

**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.