

# INSTALLATION GUIDE



Part#: 128253

**HARDCORE LIMITED LIFETIME WARRANTY**

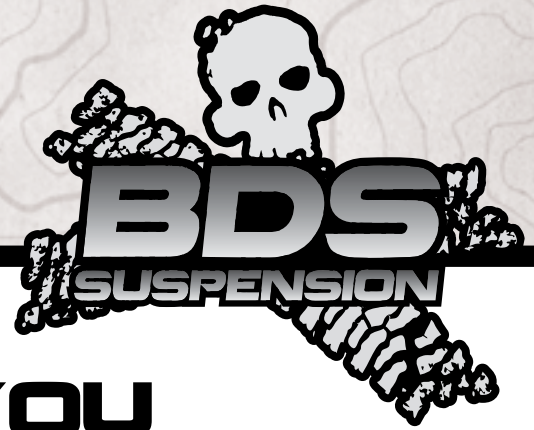
## Control Arms

**Toyota Tundra 4WD | 2007-2020**

Rev. 091117

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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

35" tall tires with 3" of lift will clear arms.  
Arms will also work with BDS 7" lift kit, not recommended for BDS 4.5" kit.



### 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.

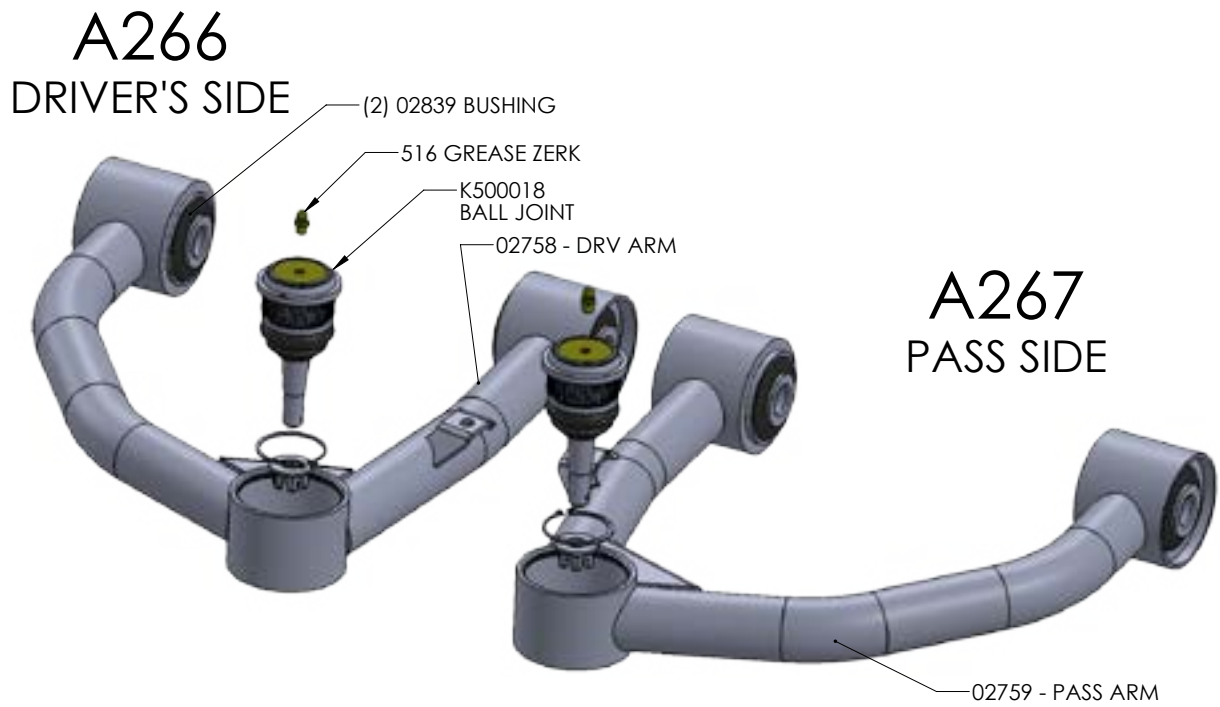
Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure. Longer replacement hoses, if needed 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

128253 Box Kit		
Part #	Qty	Description
A266	1	Driver Control Arm Assembly
02758	1	Upper Control Arm - Driver
K500018	1	Tundra Ball Joint
02839	2	Tundra UCA Bushing
A267	1	Passenger Control Arm Assembly
02759	1	Upper Control Arm - Passenger
K500018	1	Tundra Ball Joint
02839	2	Tundra UCA Bushing
02911	2	Ball Joint Cap
9452K145	2	O-Ring (#139)
45NA53	1	Grease Packet
W58USS	4	5/8" USS Washer
967	1	Bolt Pack
	2	Wire Clip
	2	1/4"-20 x 5/8" Bolt
	2	1/4"-20 Serrated Edge Flanged Nut
	2	1/4" SAE Clear Zinc Washer



## TECH TIPS

### TROUBLESHOOTING INFORMATION FOR YOUR VEHICLE

1. Medium-strength thread-lock (blue loctite) is recommended on all bolts.
2. Arms are designed to work with Fox Coilovers that require upper control arms and may not work with all aftermarket spacer lifts / lift kits (Will work with BDS 3" Lift). The ball joint has been reindexed to allow for max range of motion with 2"-3" 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.
3. Ball joint cap must be removed for maintenance of ball joint. Remove cap to access grease zerk. Grease at regular maintenance intervals
4. Do NOT use these control arms with a 4.5" BDS Lift System. Can be used with BDS 7" Lift System.
5. MOOG Ball Joint K500018 MUST be used as a replacement with this control arm. Do NOT use any brand other than MOOG as a direct replacement for this ball joint.

## INSTALLATION INSTRUCTIONS

### INSTALLATION INSTRUCTIONS

1. Park vehicle on clean, flat, and level surface. Block the rear wheels for safety.
2. Raise the front of the vehicle and support frame rails with jack stands.
3. Remove the front wheels.
4. Disconnect the ABS wire from the upper control arm (Fig 1).

### SPECIAL TOOLS

N/A

**FIGURE 1**



5. It is recommended to disconnect the ABS wire from the clips on the inside of the fenderwell to prevent over-extending of the ABS wire. Do not allow the brake line to hold the steering knuckle assembly in place.
6. Support the lower control arm with a jack.
7. Remove the strut hardware and remove the factory strut from the vehicle. Skip this step if a spacer kit / new strut assembly is not being installed.
8. Remove the upper control arm from vehicle. The inner fenderwell sheet metal may need to be slightly formed to get the bolt to be removed easily. Reference the factory service manual if needed.
9. Remove the factory washers from the upper control arm bolt, new washers (W58USS) are provided with the kit.
10. Install new control arm with factory hardware and new washers. Snug, but do not torque bolts. Attach to the steering knuckle at this time with new hardware. Tighten ball joint hardware to 81 ft-lbs. Install cotter pin.
11. 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 2)

*Note: Grease ball joint before installation of cap.*

**FIGURE 2**



12. Remove the factory ABS mounting bracket from the ABS line. Attach the ABS wire to the control arm with new 1/4" hardware with new wire clip. Tighten to 15 ft-lbs.
13. Reinstall wheels. Tighten to factory specification. Lower vehicle to the ground. When vehicle is settled at ride height, torque the upper control arm hardware to 173 ft-lbs.
14. Follow separate coilover or spacer kit installation instructions at this time. Max height the arms are recommended to work with are 3" of lift in stock mounting locations.



### **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.