

# INSTALLATION GUIDE



Part#: 122251

**HARDCORE LIMITED LIFETIME WARRANTY**

## Upper Control Arm

**Dodge 1500 4WD (5 Lug Trucks Only) | 2006-2018 / 2019+**

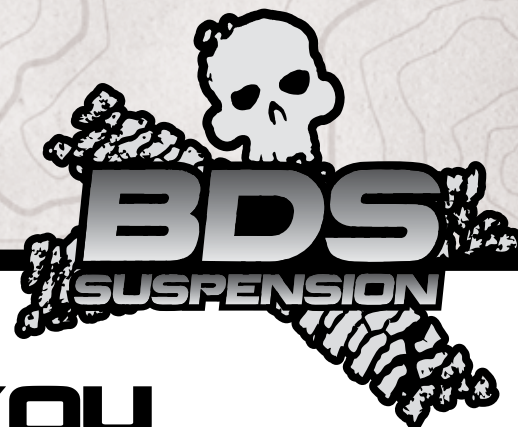
Rev. 051518

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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

Works with stock rims with stock tires, or up to 12.50" wide tires on 17/18/20x9 w/ 4.5"-5" backsacing.



### 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.

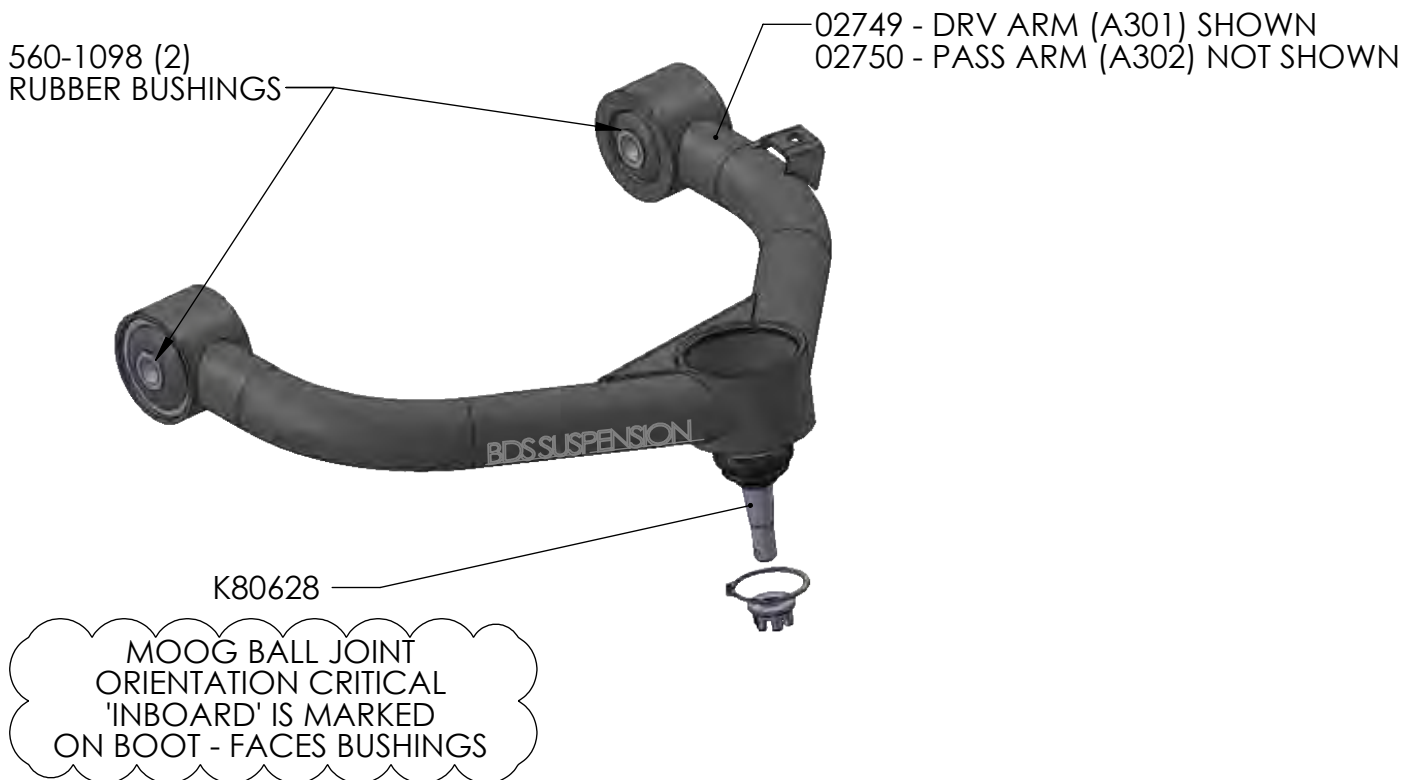
Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure. Longer replacement hoses, if needed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

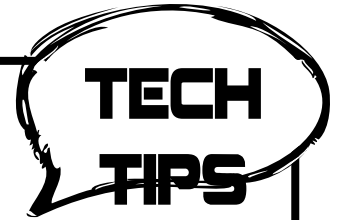
Perform head light check and adjustment.

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

# CONTENTS OF YOUR KIT

122251 Box Kit		
Part #	Qty	Description
<b>A301</b>	<b>1</b>	<b>UCA Assembly - DRV</b>
02749	1	UCA - Drv
K80628	1	Ball Joint
560-1098	2	Rubber Bushing
<b>A302</b>	<b>1</b>	<b>UCA Assembly - PASS</b>
02750	1	UCA - PASS
K80628	1	Ball Joint
560-1098	2	Rubber Bushing
<b>B1185</b>	<b>1</b>	<b>Bag Kit</b>
02911	2	Ball Joint Cap
9452K145	2	o-ring (#139)
45NA53	1	Grease Packet
967	1	Bolt Pack - Brake Line Hardware
	2	Wire Clip
	2	1/4"-20 x 5/8" bolt grade 5 cz
	2	1/4"-20 serrated edge flanged nut
	2	1/4" SAE Clear Zinc Washer





## TROUBLESHOOTING INFORMATION FOR YOUR VEHICLE

1. This kit is only the upper control arms to fix ball joint range of motion issues common to Ram 1500 trucks when used with spacer kits.
2. This kit will not fix any driveline vibration. If vibrations or lobing of the CV's is present, the ride height must be lowered to reduce CV angles, otherwise seek options from separate manufacturers (differential drop kits or Porsche 930 inner CV conversion). BDS will NOT cover any associated costs, or issues related to driveline vibrations.
3. Will not work with stock rims with a 12.50" wide tire, tire will rub the UCA at full steering lock. If the stock rim is reinstalled it will need to be with the stock size tire ONLY!
4. Not for use with lowering kits. Use with 0"-2.5" Lift only. Arms may not give enough range of motion for certain spacer kits on the market. Maximum thickness of spacer that the arms will work with is 1" thick with preload spacer.

# 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 the frame rails with jackstands.
3. Remove the front wheels.
4. Disconnect the ABS wire from the upper control arm.
5. Remove the upper control arm from the vehicle. Do not hit the aluminum steering knuckle with a hammer to dislodge the upper ball joint taper. Chrysler manual recommends #8677 ball joint tool. (Fig 1) Failure to properly disassemble the ball joint may weaken the factory aluminum knuckle and cause premature failure.

## SPECIAL TOOLS

Torque Wrench  
8677 Chrysler Ball Joint Separation Tool (or Equiv)

**FIGURE 1**



6. Install new arm with factory hardware and new ball joint nut. Snug, but do not tighten the upper control arms at this time. Final torque will be done with the weight of the vehicle on the wheels. Tighten the upper ball joint nut to 65 ft-lbs. Do not loosen to get the cotter pin to install.  
*Note: Arms are side specific. The arms will have the ball joint offset towards the rear of the vehicle. The ABS tab will be towards the 'rear' of the vehicle.*
7. Grease the upper ball joint at this time.
8. Use included grease packet to grease the o-ring, install o-ring onto upper ball joint cap. Press into the upper control arm with the palm of one's hand. (Fig 2)

**FIGURE 2**



9. 2006-2018 Model year trucks (2019+ skip this step): Attach the ABS wire to the upper control arm with the included ¼" hardware with rubber coated clamp. Note the rubber grommet on the ABS wire can be slid on the main cable. Use silicone spray to aid in movement of grommet if necessary. Tighten to 18 ft-lbs.
10. 2006-2018 Model year trucks (2019+ skip this step): At full droop, if the sway bar appears to be bound up, it is recommended to put some 10mm washers below the lower cup washer to slightly straighten the sway bar link (not included in the kit).
11. Reinstall wheels and torque to factory specifications.
12. Cycle the steering to check for adequate ABS slack, adjust as necessary.
13. Lower vehicle to the ground and tighten the upper control arm hardware to 130 ft-lbs.
14. An alignment is now required.
15. Recheck hardware after 500 miles. Remove ball joint cap and grease upper ball joint at 3000 mile intervals. Replacement ball joint is Moog K80628.



### **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.