

INSTALLATION GUIDE



Part#: 121252

HARDCORE LIMITED LIFETIME WARRANTY

Chevy HD Upper Control Arm Kit

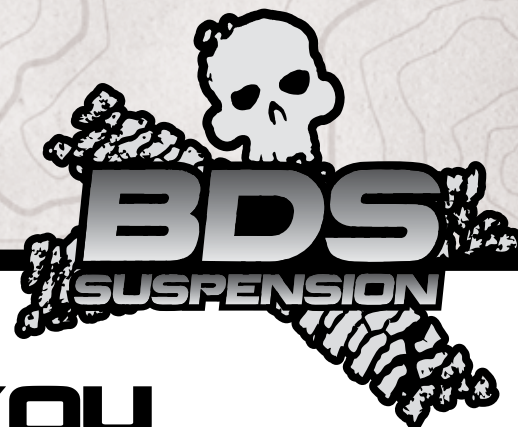
Chevy HD 4WD | 2001-2010

Rev. 112119

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Web: www.bds-suspension.com • E-mail: tech-bds@ridefox.com

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 for more information.

TIRES AND WHEELS

265/75R17 Tire
5-1/4" Backspace Wheel

Will work with factory wheels with factory tires, or if used with BDS lift kits use the BDS specifications.



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.

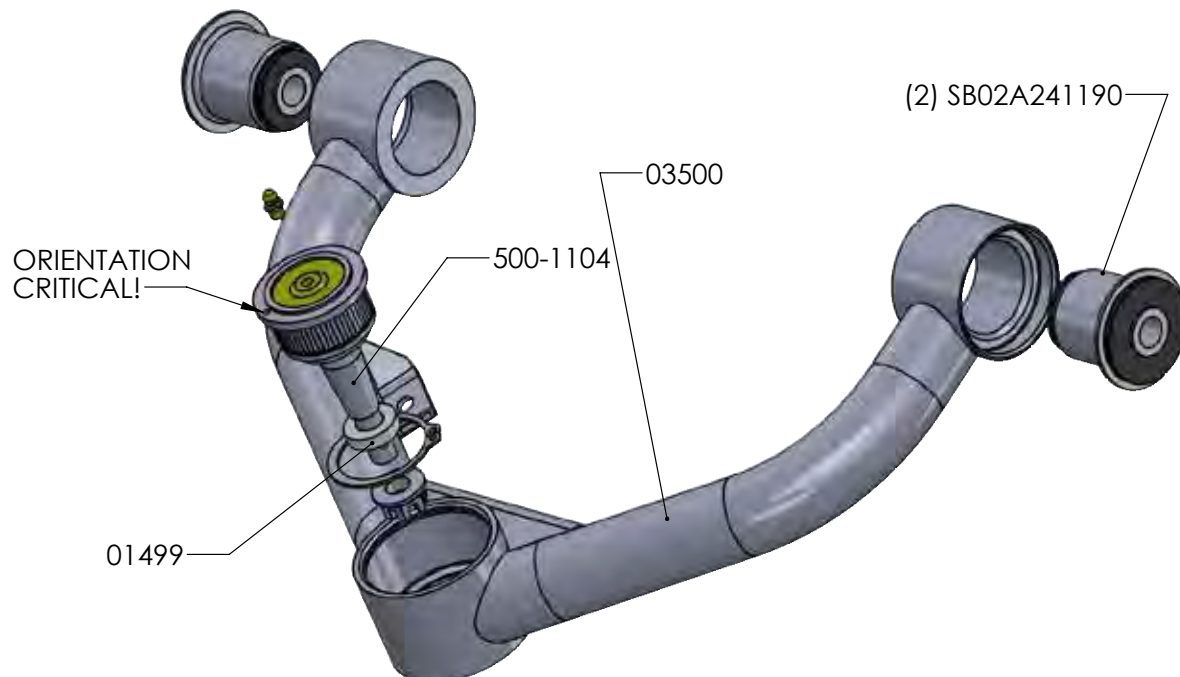
Perform head light check and adjustment.

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

CONTENTS OF YOUR KIT

121252 Box Kit		
Part #	Qty	Description
A305	1	UCA Assembly - DRV
03500	1	Chevy HD UCA - Tubular - DRV
500-1104	1	Ball Joint
01499	1	Nut Spacer Washer
BDS222760	1	BDS UCA Sticker
SB02A241190	2	UCA Bushings
A306	1	UCA Assembly - PASS
03501	1	Chevy HD UCA - Tubular - PASS
500-1104	1	Ball Joint
01499	1	Nut Spacer Washer
BDS222760	1	BDS UCA Sticker
SB02A241190	2	UCA Bushings
02911	2	Ball Joint Cap
9452K145	2	O-Ring
099000	2	11.5" Zip Tie - Blk
0708760	2	3/8" x 0.406 Clamp
768	1	Bolt Pack - Cable Clamp
	2	1/4"-20 x 3/4" Bolt, Grade 5, Clear Zinc
	2	1/4"-20 Nylock Nut, Clear Zinc
	4	1/4" USS Washer, Clear Zinc

A305 DRV SIDE SHOWN



TECH TIPS

TROUBLESHOOTING INFORMATION FOR YOUR VEHICLE

1. These arms are specifically designed to work with the BDS 4.5" and 7" Coilover conversion kit. They will work with other kits and possible frame modifications to the droop limiter will be required. Additionally, the sway bar links that are included in some kits may not work and may need to be replaced with different length links as well as appropriate length shocks. These items are not included in the kit and additional labor to address these items will not be compensated.
2. Ball joint used is 500-1104, use this for replacement purposes if a new ball joint is ever needed. Ball joint is directional and must be installed with the 'dot' facing either inward or outward on the vehicle, otherwise damage may occur.
3. Only fits 2001-2010 model year trucks. We do not offer kits for 2000 model year HD vehicles. Will also only work with 4.5" / 7" BDS kits or stock height trucks
4. Unload the torsion bars when installing the arms. This is for the installers safety.

INSTALLATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS

1. Park vehicle on clean, flat, and level surface.
2. Block rear wheels for safety.
3. Raise the front of the vehicle with a hydraulic jack, support frame rails with jack stands. Remove the front wheels.
4. Measure the torsion bar adjusting bolt lengths that are exposed. Record here: DRV _____ PASS _____
5. Unload the torsion bars by removing the torsion bar adjusting bolt and using special torsion bar tool, remove the torsion bar bridge.
6. Disconnect the upper ball joint from the steering knuckle. Disconnect the brakeline from the upper control arm. (Fig 1) Support knuckle assembly to keep from overextending CV's, brakelines, and ABS wires.

SPECIAL TOOLS

Torsion Bar Unloading Tool

FIGURE 1



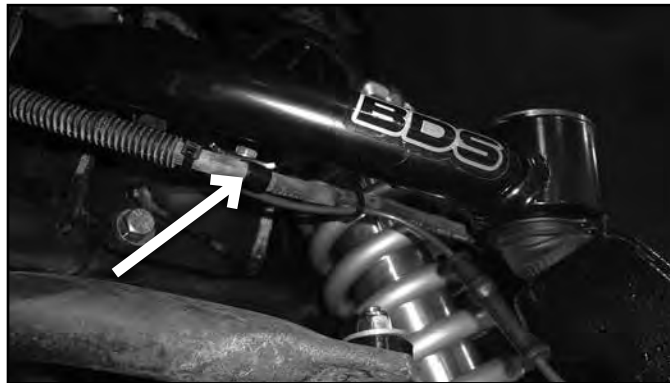
7. Remove the upper control arm cam bolts, and remove the OEM upper control arm.
8. Remove the OEM brakeline bracket from the factory brakeline. Use a cutoff wheel or pliers to remove the bracket. Do not damage the OEM brakeline.
9. Control arms will have the 'BDS' sticker towards the front of the vehicle.
10. Install new upper control arm with factory cam bolts. If installation is going to be done with the BDS coilover conversion, placement of the cam bolts will need to be changed. Run the rear mounting bolt from rear-front, and the front mounting bolt from front-rear. This will give clearance to the Coilover conversion bracket.
11. Attach upper ball joint to the steering knuckle with included 1/4" thick washer, castellated nut, and cotter pin. Tighten upper ball joint to 65 ft-lbs. (Fig 2)

FIGURE 2



12. Grease the ball joint at this time. The cap must be removed to grease the ball joint at service intervals.
13. Lightly grease the o-ring and install onto the cap. Install cap into the upper ball joint cup.
14. Attach the OEM brakeline to the bottom side of the upper control arm with cable clamp and 1/4" hardware. Tighten to 15 ft-lbs. (Fig 3)

FIGURE 3



15. Reinstall torsion bar bridge and adjusting bolt to initial measurements. While the torsion bars are beginning to get pressure, check for clearance between the upper control arm and the droop limiter. If there is contact, first the shock lengths need to be verified.
16. The max shock length for 0-2" lift kits is: 16.00", Max length for 4.5"-7" kits is 21.95". If shocks are longer than these values, new shocks must be ordered.
17. If shocks fall within acceptable range, the droop limiter must be checked for clearance to allow for adequate droop. The control arm can NOT be used as the droop limiter. There must be a small gap between the arm and the droop limiter. If there is contact with the arm and droop limiter, frame modifications are required. Remove pressure from torsion bars, and compress suspension to give room to work on the droop limiter. Trim off the droop limiter with a sawzall or equivalent tool. Only remove the droop limiter portion of the droop limiter, do not remove the jounce bumper portion (Fig 4)

FIGURE 4 (DROOP LIMITER REMOVED)



18. Attach ABS wire with included zip ties.
19. Reload torsion bars, check for adequate clearance to modified droop limiter.

20. Reinstall the wheels. Torque to factory specifications.
21. Lower vehicle to the ground and center upper control arm cams and tighten hardware to 65 ft-lbs.
22. Vehicle must be aligned now.
23. Grease the ball joint at regular service intervals. Replacement ball joint # is 500-1104
24. Recheck hardware after 500 miles



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 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.