

HARDCORE LIMITED LIFETIME WARRANTY

6" Suspension System

Dodge 2500 4wd 2008-2009

Rev. 010218

491 W. Garfield Ave., Coldwater, MI 49036 • Phone: 517-279-2135 E-mail: tech-bds@ridefox.com

Read And Understand All Instructions And Warnings Prior To Installation Of System And Operation Of Vehicle.



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 560 plus.com for more information.



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.



The kit you are installing may not be exactly as the kit shown.

CONTENTS OF YOUR KIT

Part # Qty Description 082403R 1 Dodge Pitman Arm 01249 2 Sway Bar Link Ext 614 1 Bolt Pack - Front 2 9/16-12 x 5" bolt 8 9/16-12 x 1-1/2" bolt 10 9/16-12 prevailing torque nut 22 9/16" SAE flat washer 1 1 4mm-2.00 x 150mm bolt 1 1 4mm-2.00 prevailing torque nut 2 5/16"-18 x 1-1/4" self-tapping bolt 01215B 2 Upper Control Arm 01216B 2 Link Relocation Bracket 02286B 2 Lower Control Arm 02259B 1 Track Bar Bracket 02322BK 2 5.5in Bump Stop- Black B181 1 Bag Kit 642 1			CONTILITIO
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B502 1 Bag Kit 3536BK 8 Dodge Bushing	72	2	.875 x .156 x 2.375 DOM Sleeve
3536BK 8 Dodge Bushing	120	4	1.00 x .1875 x 2.60 DOM Sleeve
- Lange Landing	B502	1	Bag Kit
3522BK 8 Dodge Bushing	3536BK	8	Dodge Bushing
	3522BK	8	Dodge Bushing

032503 Front Coil Spring - Diesel				
Part #	Qty	Description		
032503R	2	Dodge Coil Springs		

032601 Front Coil Spring - Gas				
Part #	Qty	Description		
032601R	2	Dodge Coil Springs		

012408 Rear Block Kit (3-1/2" axle)				
Part #	Qty	Description		
4KB-W34	2	4 In Block		
963121412RB	4	9/16 x 3-1/2 x 14-1/2 Round U-bolt		
01599	2	Leaf Pin		
W96S-B	8	9/16 SAE Flat Washer-Black		
N96FH-B	8	9/16 Fine High Nut- Black		

012405 Rear Block Kit (4" axle)				
Part #	Qty	Description		
4KB-W34	2	4ln Block		
964001614RB	4	9/16 x 4 x 16-1/4 Round U-Bolt		
W96S-B	8	9/16 SAE Flat Washer		
N96FH-B	8	9/16 Fine High Nut		
01599	2	Leaf Pin		

TROUBLESHOOTING INFORMATION FOR YOUR VEHICLE

 Manual transmission models require T-case indexing ring kit 122802 instead of 122801. Additional front driveshaft clearance at the transmission crossmember may be needed on manual transmission models with the indexing ring installed.



2. A step drill is highly recommended. 9/16" holes are required to be drilled in the installation.

<u>INSTALLATION INSTRUCTIONS</u>

- 1. Park vehicle on clean flat and level surface.
- 2. Block the wheels for safety.
- Open the hood and remove the upper shock stem nuts. Remove the three nuts mounting each of the shock towers to the frame (Fig 1)

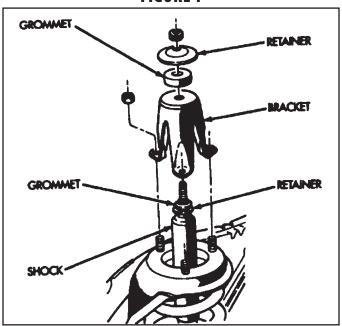
SPECIAL TOOLS

Pitman arm puller

Right angle drill (optional)

Depending on model year kit: Cutoff tools, transmission jack, welder, grinder

FIGURE 1

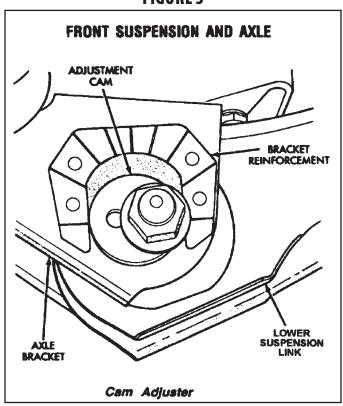


- 4. Raise the front of the vehicle and support the frame with jack stands.
- 5. Remove the wheels.
- 6. Support the front axle with a hydraulic jack.
- 7. Disconnect the brake lines from the axle brackets.
- 8. Disconnect the sway bar links from the sway bar. Retain all hardware.
- 9. Disconnect the shock from the lower mount. The head of the bolt is accessed through a hole in the front of the axle spring perch. Remove the shocks and retain the mounting hardware.
- 10. Disconnect the track bar from the frame bracket. Retain hardware.
- 11. Remove the OE bump stops from the frame. Pull them free of the frame mount with channel lock pliers.
- 12. Disconnect the steering stabilizer from the drag link.
- 13. Disconnect the drag link from the pitman arm. Retain hardware.
- 14. Remove the pitman arm nut from the sector shaft. Note the orientation of the pitman arm and remove the arm from the sector shaft using the appropriate puller (Fig 2).



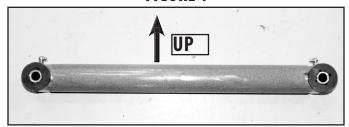
- 15. Install the new pitman arm on the shaft by lining up the splines on the pitman arm and sector shaft so that the indexing is correct. Fasten the pitman arm with the stock hardware and torque to 225 ft-lbs.
- 16. On both sides of the vehicle, make index marks on the alignment eccentrics at the axle (Fig 3). Mark the cams to indicate driver's verses passenger's side.

FIGURE 3



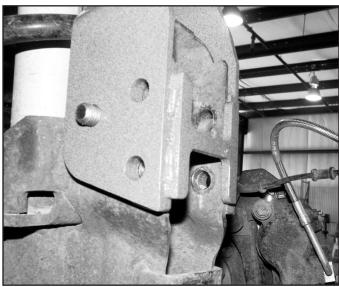
- 17. Working on one side of the vehicle at a time, remove the OE lower control arm cam bolt. Disconnect the lower control arms from the frame and remove them from the vehicle. Retain hardware.
 - Note: Ensure that the axle is well supported.

- 18. Lower the jack until the spring can be removed from the vehicle. Also, remove the OE upper spring isolator and shock tower stud ring. The isolator and stud ring will be reused.
- 19. Lightly grease and install the provided 1" ID bushings (3536BK) and 1" x 2.60" sleeves (120) in the new lower control arms (02286). Install 90° grease fittings in the threaded holes at each end of the arms. The grease fittings should point in toward the control arm when installed. (Fig. 4) **Note**: The lower control arms are longer than the upper control arms.



- 20. Install the lower control arms in the OE frame and axle mount locations with the original hardware. Install the arms so that the grease fittings are up. Leave hardware loose.
- 21. Disconnect the OE upper control arms from the frame and the axle. Retain hardware.
 - **Note**: On some models the upper passenger's side control frame bolt will hit the exhaust. A new bolt is provided for this position so that the bolt head can be cut off and driven out the opposite direction. This will eliminate the need for removing the exhaust to allow removal of the upper control arm.
- 22. Position the provided upper control arm relocation bracket (01216) over the original upper control arm axle mount. Align the original control arm mounting hole with the corresponding hole in the new bracket and temporarily install a 9/16" x 5" bolt from bolt pack #614 to hold the bracket in place.
- 23. Adjust the control arm relocation bracket so the backing plate is parallel to the back edge of the original axle mount and mark the four holes to be drilled (two inner and two outer). Remove the bracket and drill 9/16" holes at the marks. (Fig. 5)





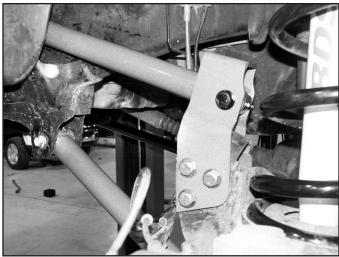
24. With all of the holes drilled, reattach the bracket to the axle and install the 9/16" x 5" bolt with 9/16" SAE washers and nut (bolt pack #614) in conjunction with the provided 7/8" x 2-3/8" spacer sleeve (72) placed in the OE upper control arm mount location. (Fig. 6) Leave hardware loose.



- 25. Install 9/16" x 1-1/2" bolts, nuts and 9/16" SAE washers in the four drilled holes. With all of the hardware installed torque bolts to 95 ft-lbs.
- 26. Lightly grease and install the provided ¾" ID bushings (3522BK) and ¾" x 2-3/8" sleeves (71) in the new upper control arms (01215). Install a 90° grease fitting in the frame end so that the fitting points toward the control arm. Install a straight grease fitting in the axle end of the arm so that it will point out toward the front of the vehicle.
- 27. Ensure that the brake line is running above the lower control arm and under the upper control arm. Install the new upper control arms in the OE frame mount and new relocation bracket with the original hardware. Install the arms so that the frame end grease fitting is up.

Note: If the passenger's side frame bolt was cut, install the provided 14mm x 150mm bolt, nut and 9/16" SAE washers from the outside of the frame. Leave hardware loose. (Fig. 7)





- 28. Install the original spring isolators and stud rings on the top of the new coil springs and install the coil springs in the vehicle. Align the stud ring with the holes in the coil mount and raise the axle to slightly compress the coils.
- 29. Position the new shocks down through the spring and attach to the axle with the OE hardware. Torque to 95 ft-lbs. Install the OE shock tower with the original nuts and studs. Torque to 25 ft-lbs.
- 30. Install a stem washer and bushing on the new shock and extend the shock into the tower. Fasten the top of the shock with a stem bushing, washer and ½" nut. Tighten the nut until the bushings begin to swell.
- 31. Install the new track bar bracket (02259) to the OE frame mount with the 5/8" x 3" bolt, nut and washers from bolt pack #642. Attach the end of the bracket to the frame crossmember with the 9/16" x 3" bolt, nut and washers from bolt pack #609. (Fig. 8) Torque the 9/16" hardware to 100 ft-lbs and 5/8" hardware to 150 ft-lbs.



32. Apply thread locker to the threads on the OE sway bar links. Thread the provided link extension (01249) on the OE links and tighten securely. Attach the extension to the sway bar with the OE washers, bushings and nuts. Tighten the nut until the bushings begin to swell. (Fig. 9)

FIGURE 9



- 33. Attach the drag link to the new pitman arm with the OE hardware. Torque the nut to 55 ft-lbs and install the cotter pin. Do not loosen the nut to align the cotter pin hole.
- 34. Attach the brake line to the hole in the upper control arm relocation bracket with a 5/16" x 1-1/4" self-tapping bolt. Torque to 15 ft-lbs. (Fig. 10)
 - **Note**: If installing BDS extended brakelines, they can be attached to the original brakeline axle mount.



35. Install the new extended bump stops in the original frame mounts. Grease the mounting surfaces to ease installation. (Fig. 11)





- 36. Install the wheels and lower the vehicle to the ground.
- 37. Install the track bar in the new bracket with the 14mm x 80mm bolt and 9/16" SAE washer from bolt pack #609 along with the OE nut tab. Torque hardware to 150 ft-lbs. Note: Turn the steering wheel to aid in installation of the track bar.
- 38. Position the lower control arm eccentric to the marks made at the beginning of the installation. Torque the lower control arm bolts to 160 ft-lbs. Torque the upper control arm bolts to 110 ft-lbs.
- 39. Check all hardware for proper torque.
- 40. Perform a steering sweep to check for proper clearance of all components.
- 41. Grease the new control arm pivot points.
- 42. Perform a complete front end alignment.
- 43. Check all hardware after 500 miles.

REAR INSTALLATION

- 44. Block the front wheels for safety. Raise the rear of the vehicle and support the frame with jack stands.
- 45. Remove the wheels.
- 46. Remove the OE shocks. Retain hardware.
- 47. Support the axle with a hydraulic jack.
- 48. Remove the passenger's side u-bolts and lower the axle from the spring enough to install the 4" lift block.

- 49. Remove the middle plastic center pin from the leave pack with pliers. Install the provided press-in steel center pin in place of the plastic one.
- 50. Install the 4" block so that the short end of the taper is to the front.
- 51. Raise the axle to seat the block, leaf spring and axle assembly together by aligning the center pins.
- 52. Fasten the assembly with the new u-bolts with the provided washers and high nuts. Snug but do not tighten at this time.
- 53. Repeat the procedure for the driver's side. Take care not to over extend the brake line.
- 54. Install the new BDS shock with the OE hardware. Use the provided 3/4" spacer washers at the axle mount.
- 55. Install the wheels.
- 56. Lower the vehicle to the ground.
- 57. Torque the u-bolts to 100-120 ft-lbs.
- 58. Check all hardware for proper torque.
- 59. Check hardware after 500 miles.



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