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Part#: **022309, 022509, 022209**

Product: **Rear High Clearance Suspension System**

Application: **2009-2012 Dodge 1500 4WD**

READ AND UNDERSTAND ALL INSTRUCTIONS AND WARNINGS PRIOR TO INSTALLATION OF SYSTEM AND OPERATION OF VEHICLE.

SAFETY WARNING 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.

PRODUCT SAFETY WARNING 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.

PRE-INSTALLATION NOTES

1. Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/ reassembly procedures of OE and related components.
2. Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
3. 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.
4. 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.
5. Secure and properly block vehicle prior to installation of BDS Suspension components. Always wear safety glasses when using power tools.
6. If installation is to be performed without a hoist, BDS Suspension Co. recommends rear alterations first.
7. 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.

POST-INSTALLATION WARNINGS

1. 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.
2. 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.
3. Perform head light check and adjustment.
4. Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.

PARTS LIST

Part # Qty Description

01291	1	Track Bar Bracket 6" kit or
02280B	1	Track Bar Bracket 4" kit
109	1	1.00 x 0.125 x 1.360 DOM Sleeve
01294	2	Nut tab - bump stops / trackbar brkt
01292	1	Drv side relocation brkt
01293	1	Pass side relocation brkt
110	2	1.00 x 0.125 x 2.375 sleeve
SBLA	2	Brakeline relocation brackets
911112	2	Sway bar links (15" long) 5" kit or
911103	2	Sway bar links (13" long) 2/3" kit
SB58BK	4	EB1 bushings - blk
62147	4	5/8"OD x 12mm ID x 1.375 Sleeve
807	1	Sway bar bolt pack
	4	12mm x 60mm bolt
	8	7/16" USS washer
	4	12mm Prevailing torque nut
808	1	Bolt pack - rear bump stops
	4	3/8" x 7/8" bolt
	4	3/8" SAE washer

809	1	Bolt pack - main rear kit - 6" only
	1	1/2" x 1-1/4" bolt
	1	1/2"-13 Prevailing torque nut
	2	1/2" SAE washer
	3	9/16" x 3" bolt
	1	9/16" Prevailing torque nut
	4	9/16" SAE washer
	2	5/8" x 4-1/2" bolt
	2	5/8" Prevailing torque nut
	4	5/8" SAE washer
	7	3/8" x 1-1/4" Bolt
	7	3/8" Prevailing torque nut
	14	3/8" SAE T washer
	1	8mm x 30mm bolt
	1	5/16" USS washer
	2	1/4" x 3/4" bolt
	2	1/4" nylock nut
	4	1/4" SAE washer
813	1	Bolt pack - main rear kit - 4" only
01290	2	Upper shock nut tabs
01999	1	Pass side rear bump stop or
01928	2	Rear bump stops 4" kit
034653R	2	5" Rear Coil or
034453R	2	3" Rear Coil or
02533BK	2	2" Rear Coil Spacer

PRE-INSTALLATION MEASUREMENTS

Measure from the center of the wheel up to the bottom edge of the wheel opening

LF _____ RF _____ LR _____ RR _____

REAR INSTALLATION

1. Park the vehicle on clean, flat, and level surface. Block the front wheels for safety.
2. Disconnect the rear trackbar from the axle, retain hardware.
3. Raise the rear of the vehicle and support the frame rails with jackstands.
4. Remove the wheels.
5. Support the axle with a hydraulic jack.
6. Remove the OE shocks. Retain the mounting hardware.
7. Remove the parking brake cable retaining the ring from the driver's side frame rail (Fig 1). Remove the driver's side parking brake cable from the ring and reinstall the ring on the frame with the passenger's side cable still in it.

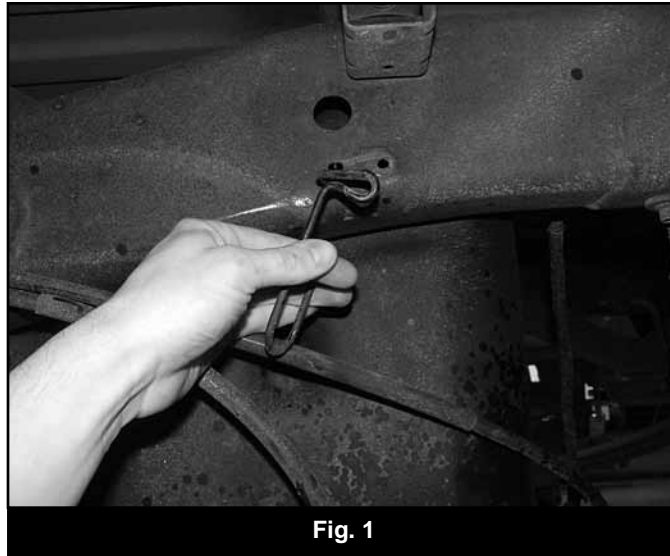


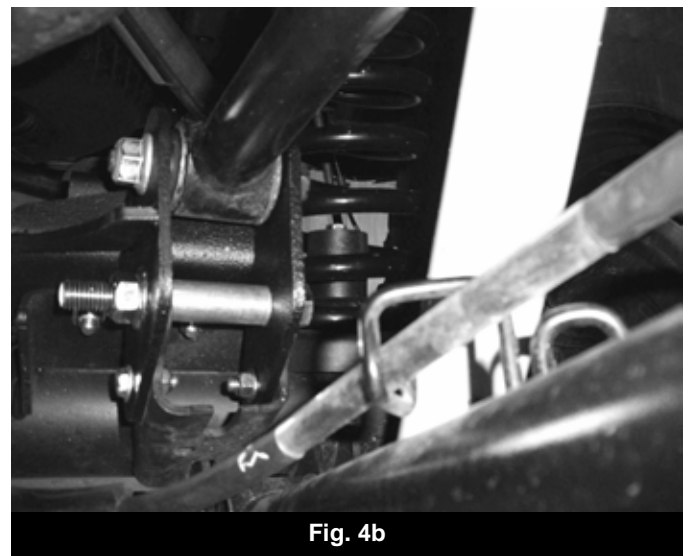
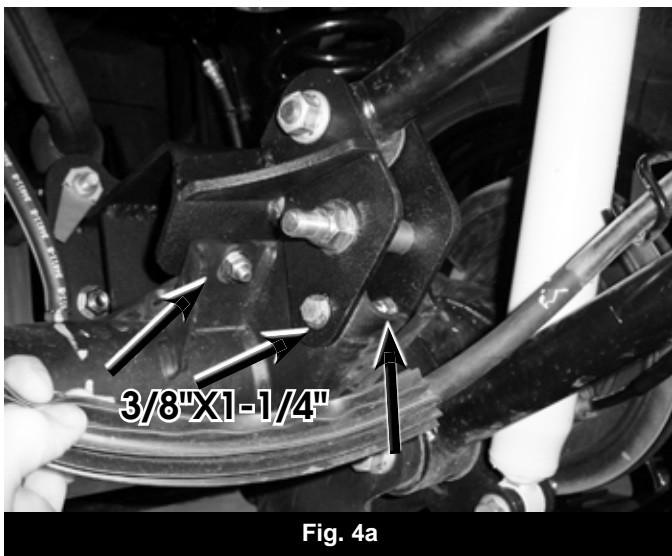
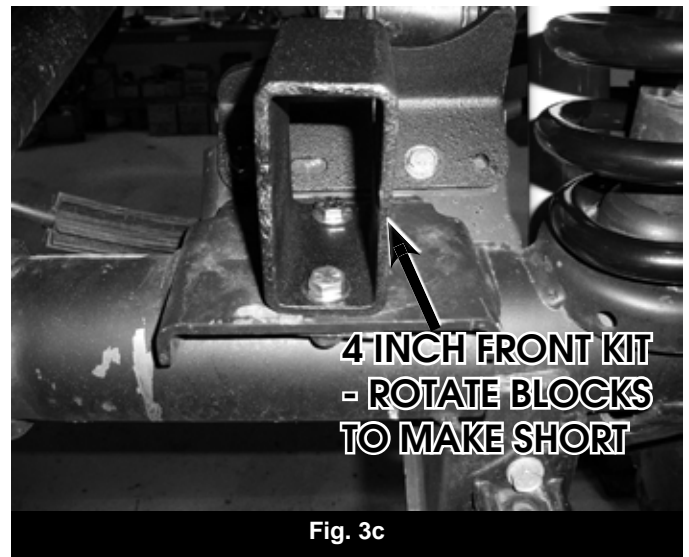
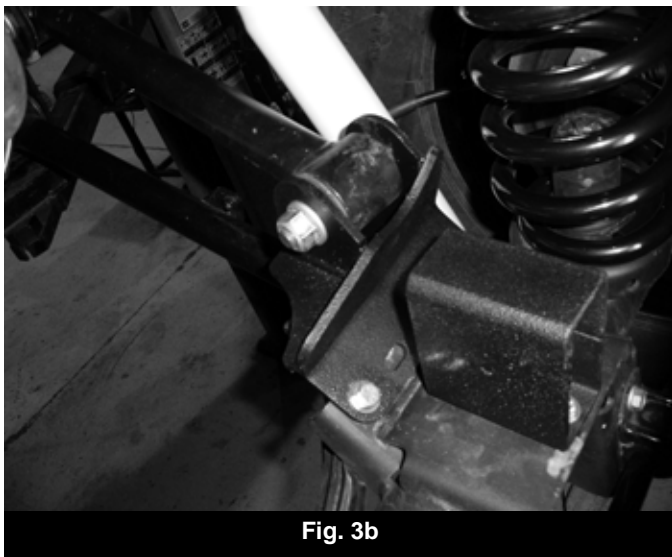
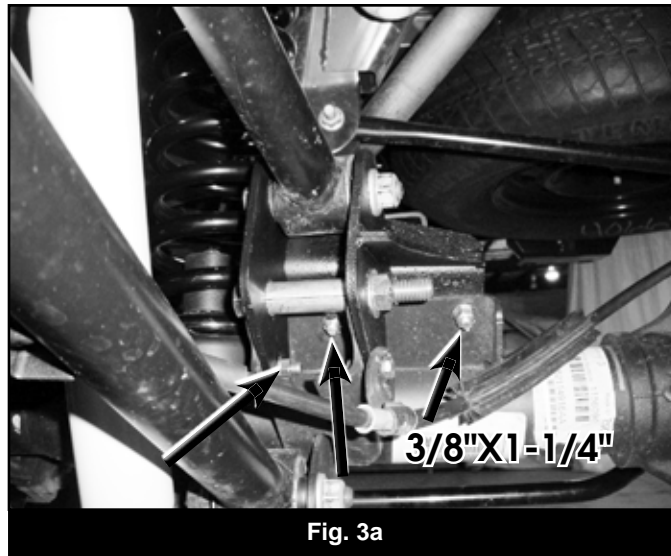
Fig. 1

8. Disconnect brake line brackets from the outside of the frame rails. Remove the ABS wires from the retaining clips. (Fig. 2)



Fig. 2

9. Remove rear sway bar links, retain hardware.
10. Lower the rear axle and remove the coils, retain the rubber isolators.
11. Disconnect the upper control arm from the axle. Loosen the upper control arm bolt at the frame rail, but do not remove. Retain hardware.
12. Place the upper control arm relocation bracket over the pocket. The plate will be offset towards the inside of the vehicle. The upper plate will only use 2 of the 4 holes that go from the top down. Mark the center of the holes and drill to 7/16". (Fig 3a, b, c - pass side, Fig. 4a, b - drv side)



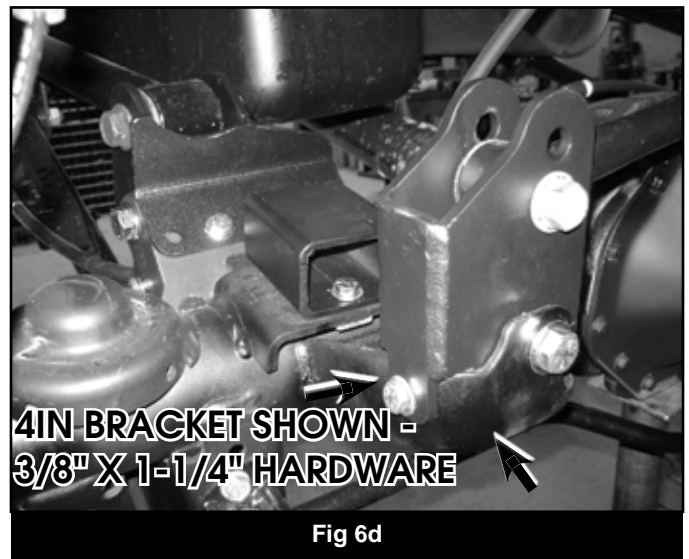
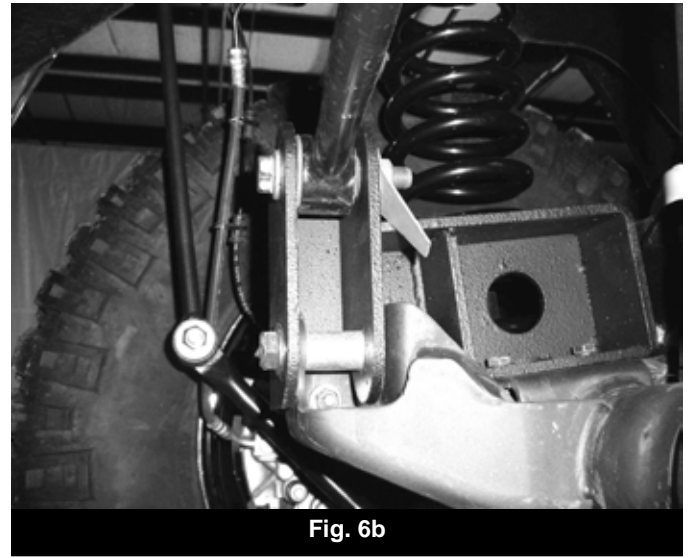
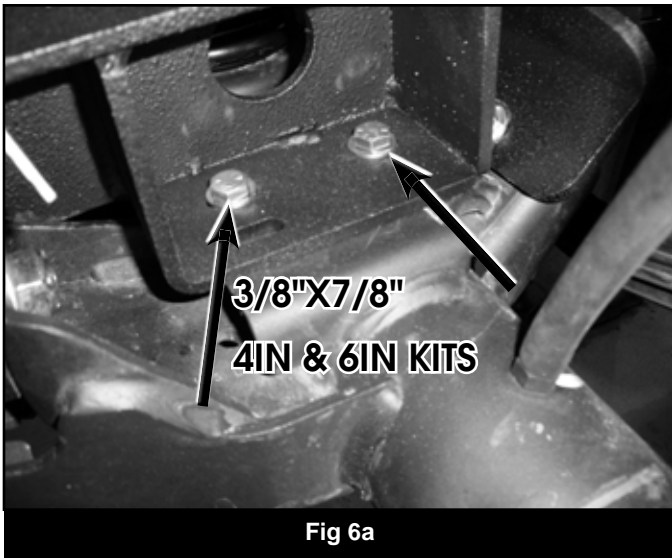
13. The lower holes can be marked by offsetting the plate to the opposite side of the control arm pocket, or cutting out the template at the end of the instruction sheet, aligning it with the bracket profile, and translating the hole onto the frame bracket. Mark the lower hole centers and drill out to 3/8 to 7/16".

14. Attach relocation brackets with 3/8" x 1-1/4" bolts, washers, and nuts. The inside passenger hole will require the 8mm bolt and the tab on the e-brake cable bracket to be formed slightly for clearance. Use 5/8" x 4-1/2" bolt with crush sleeve through the original upper arm mounting hole.
15. Install the upper arm with the OE bolt. Leave control arm hardware loose at this time. Tighten 8mm bolt to 25 ft-lbs, 3/8" hardware to 35 ft-lbs, and 5/8" hardware to 95 ft-lbs.
16. Lower the axle and install the new coil springs with OE rubber isolator. If installing optional kit with 2" spacers, place spacers against the frame with the OE isolator below. Reinstall the coil assembly as shown.

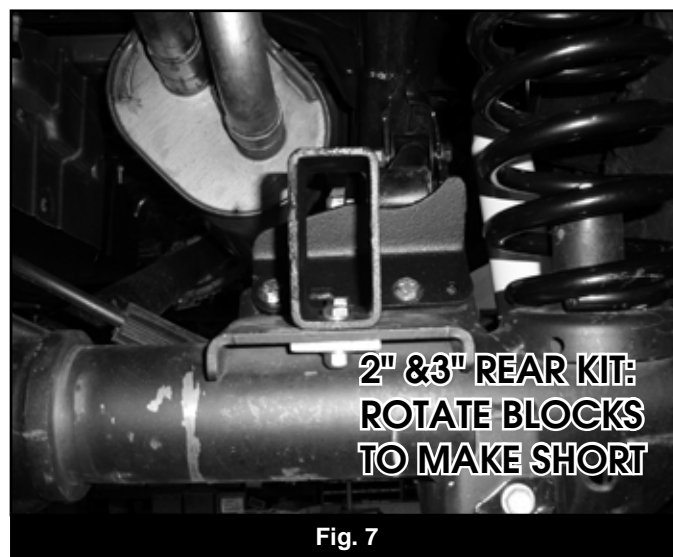


Fig. 5

17. Install the new rear shocks. Use new 9/16" x 3" bolts at the top mount with the new nut tabs (01290). Tighten shock hardware to 75 ft-lbs.
18. Place rear track bar bracket (01291) over original mount. Mark hole center to be drilled. Drill to 1/2" for 6in kit / drill to 7/16" for 4in kit. The 4 inch kit will use a bolt that goes through the extra wing on the trackbar bracket.
19. Install threaded plate under the bump stop pad, align the holes and slots. Install trackbar bracket with 3/8" x 7/8" bolts with washers. Attach original mounting hole with 9/16" hardware with crush sleeve. Install 1/2" x 1-1/4" bolt (6inch kit only), attach 4inch bracket with 3/8" x 1-1/4" bolt with washers and nut through the hole drilled in the previous step. Tighten 3/8" hardware to 35 ft-lbs, 1/2" to 65 ft-lbs, and 9/16" to 95 ft-lbs. (Fig 6a, b, c) The 4 inch kit will use the extra bump stop spacer as shown. (Fig 6d)



20. Attach bump stop extension (01999 - 6in kit / 01924 4in kit) to passengers side with 3/8" x 7/8" bolts with washers into threaded plate. Tighten to 35 ft-lbs. (Fig 7)

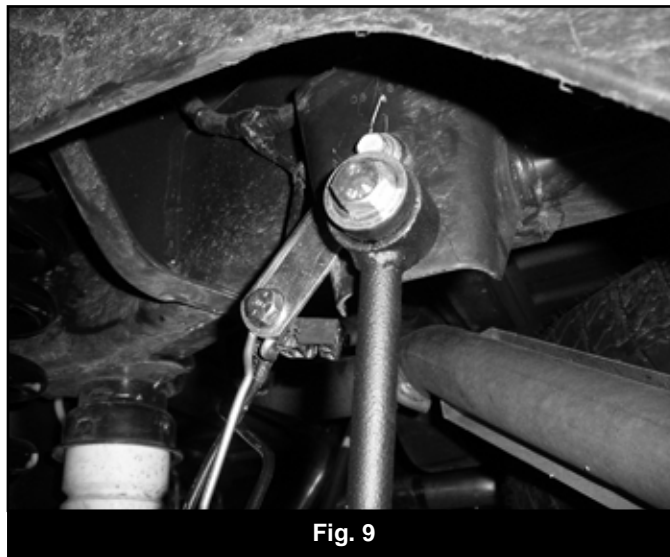


21. Install hourglass bushings into sway bar links. Install sleeves into bushings.

22. Install sway bar links (15" long - #91112 - 6inch kit / 13" long - #911103 - 4inch kit) on vehicle with 12mm x 60mm bolts, washers and nuts. (#807) Tighten to 55 ft-lbs. (Fig 8)



23. Install brakeline drop brackets on the side of the frame rail. Attach brakeline to bracket with $\frac{1}{4}$ " x $\frac{3}{4}$ " bolt, washers, and nut. Tighten to 20 ft-lbs. (Fig 9)



24. Reattach ABS wire to clips on brakeline.
25. Install wheels and lower vehicle to the ground.
26. Tighten upper control arm hardware to 120 ft-lbs.

27. Install rear trackbar into relocation bracket with OE bolt and nut. 4 inch kits will use the lower hole. Tighten to 95 ft-lbs.
28. Recheck all fasteners for proper torque. Check again after 500 miles and at regularly scheduled intervals.

NOTICE TO DEALER/INSTALLER

These instructions, the warning card, and included decals must be given to the owner of this BDS Suspension product.

For questions, technical support and warranty issues relating to this BDS Suspension product, please contact your distributor/installer before contacting BDS Suspension directly.

Sold/Installed by:

Rear Template 09+ Dodge 1500

