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Part#: **012203**

Product: **2" Spacer Kit**

Application: **2013 Dodge Ram 3500 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
02444	2	Dodge 2" Upper Strut Spacer
02378BK	2	Front Bump Stops
605	1	Bolt Pack
	2	7/16"-14 x 1 1/4" bolt grade 5
	2	7/16"-14 prevailing torque nut
	4	7/16" SAE washer



INSTALLATION INSTRUCTIONS

1. Park vehicle on clean, flat, and level surface. Block the rear wheels for safety
2. Remove the front trackbar bolt from the frame. Do this while the vehicle is on the ground and there is a small amount of side load on the hardware.
3. Raise the front of the vehicle and support frame rails with jack stands.
4. Support the front axle with a hydraulic jack, and remove the front wheels.
5. Disconnect the 4 bolts that hold the sway bar to the frame, and allow the sway bar to swing down. (Fig 1)

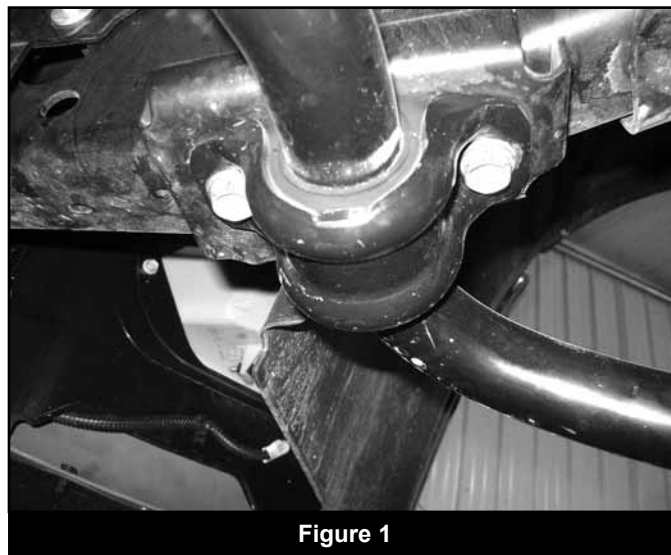
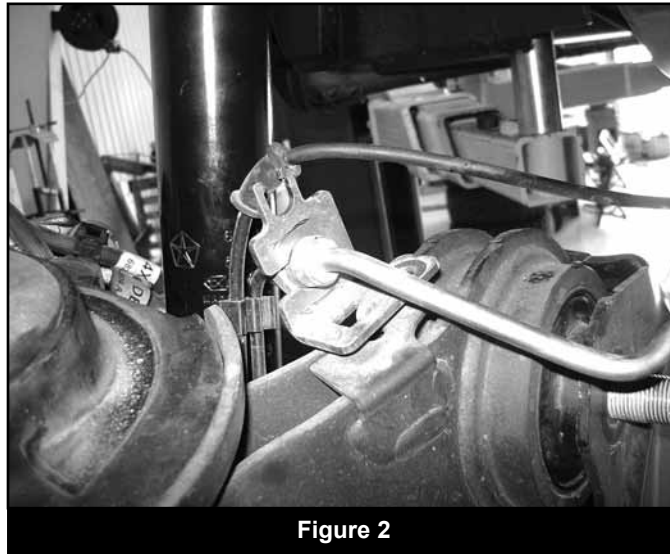


Figure 1

6. Disconnect the brake line brackets from the top of the radius arm mount on the front axle. (Fig 2)

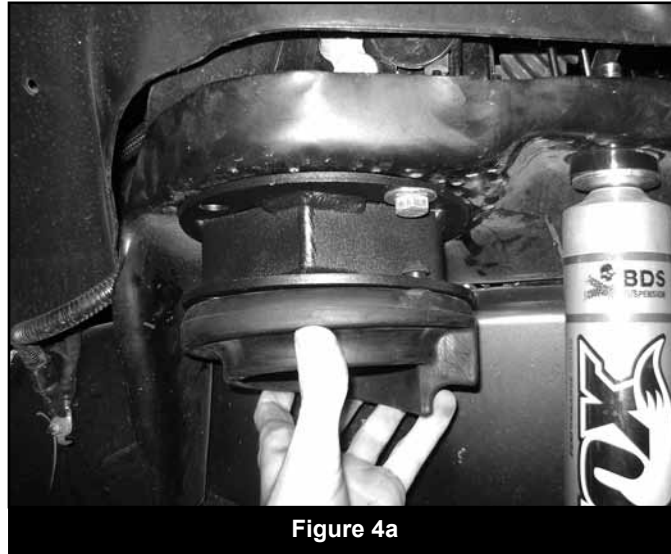


7. Disconnect the drag link from the pitman arm, use an appropriate puller, and do not damage the tie rod end boot.
8. Remove the front shocks, retain the lower mounting hardware. (Fig 3)



9. Lower the front axle and remove the coil springs. Check for appropriate slack in ABS wires, brake lines, and differential breather hose. Keep the coils separated, do not mix sides.
10. Remove the factory bump stops. It is easiest to remove them by hitting with a hammer on the side.

11. Install new spacers (02444) with 7/16" hardware (Bolt Pack #605) through the factory hole. Tighten to 35 ft-lbs. The orientation of the parts will be so that the weld seam is facing out away from the center of the vehicle. (Fig 4a - DRV, 4b - PASS)



12. Reinstall the factory upper isolator and coil springs. The tab on the isolator will go directly below the 7/16" bolt. Coil orientation is critical to keep the factory coils from bowing an excessive amount.
13. Raise front axle and install new shocks. Tighten upper bushings until they begin to swell. Tighten lower shock bolt to 70 ft-lbs.
14. Reattach sway bar to the frame with factory hardware. Tighten to 40 ft-lbs.
15. Reattach the drag link to the pitman arm with factory hardware. Tighten to 65 ft-lbs.
16. Reattach the factory brake line brackets to the axle with factory hardware. Tighten to 12 ft-lbs.
17. Install wheels, if installing aftermarket wheels remove the retaining clips on the lug studs before installing new wheels. Tighten to factory specifications.
18. Grease new bump stops (02378BK) and place a block of wood under them. The weight of the vehicle will be used to press them into position.
19. Lower vehicle to the ground, and ensure that the bump stops are fully seated. (Fig 5)

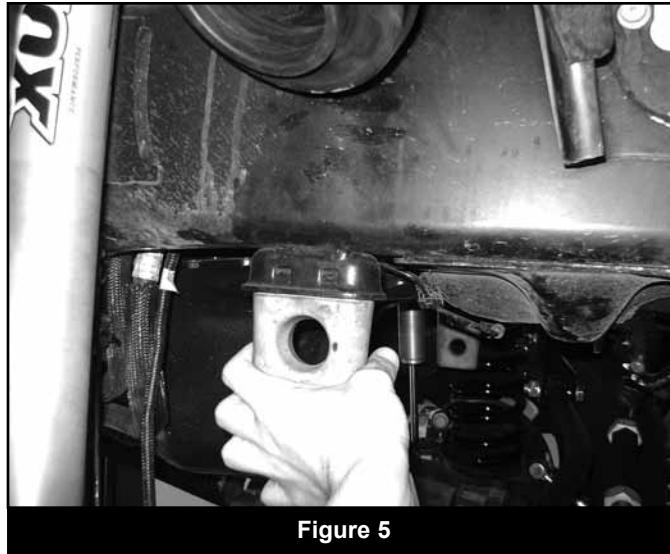


Figure 5

20. Have an assistant turn the steering wheel and reattach the track bar to the frame with factory hardware. Tighten to 180 ft-lbs.
21. Perform a steering sweep and check for adequate clearance. Recheck all hardware for proper torque.
22. Adjust steering wheel to center by adjusting the collar on the drag link, do not drive the vehicle with the steering wheel crooked or traction control problems may arise.
23. Have an alignment performed. Recheck all hardware after 500 miles.

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: