

# 6" Lift Dual Shock Hoop

Dodge 3500 4WD w/ BDS Short Arm Kit| 2003-2012

Dodge 2500 4WD w/ BDS Short Arm Kit| 2003-2013

Part #: 122604



## 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.

## INSTALLATION INSTRUCTIONS

1. Park vehicle on clean, flat, and level surface. Block rear wheels for safety.
2. Raise front of vehicle and support frame with jackstands.
3. Disconnect upper shock mounting hardware.
4. Disconnect 3 nuts from upper shock tower and remove bracket. (Fig. 1)

**FIGURE 1**

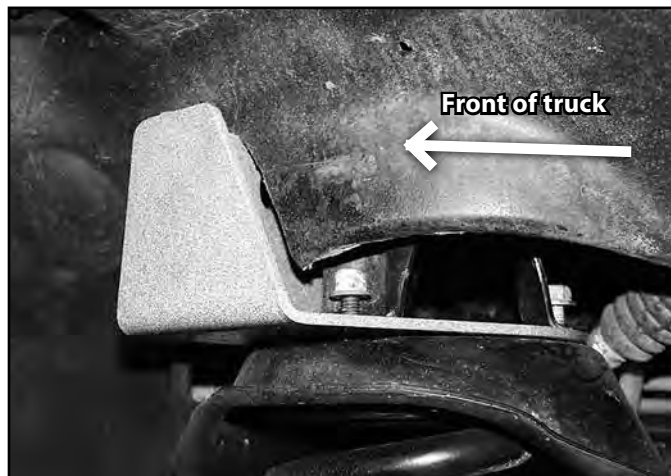


5. Remove lower shock bolt and remove shock.
6. Lower axle and allow spring to be removed, it may be necessary to disconnect the sway bar and track bar.
7. Remove shock tower ring, install new ring with longer studs. Ensure that rubber isolator is on top of springs. Reinstall spring.
8. Reinstall shock inside spring with OE hardware. This shock must be installed to limit droop while vehicle is hanging after installation is complete.
9. Hold bracket (01226B/01227B) with plate located towards front of truck next to original shock tower mount. Trim fenderwell to allow for plate clearance. (Fig. 1/2)
10. Install bracket and shock tower with plate located towards front of truck with new 3/8" hardware and Loc-tite. (Fig. 2)

### 122604 Box Kit

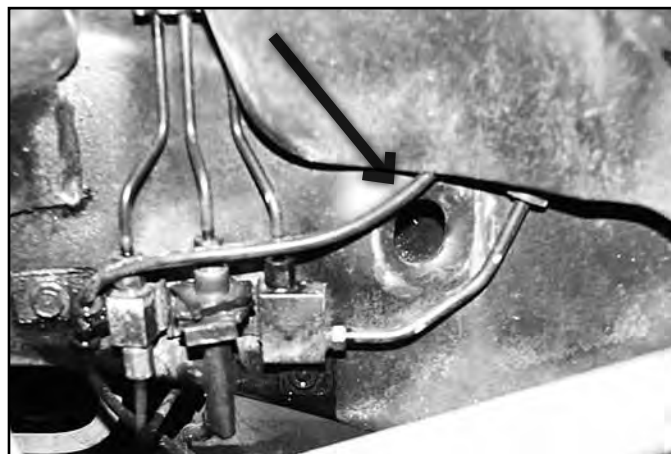
Part #	Qty	Description
01226B	1	Upper mounting plate - Drv
01283B	1	Dual shock tube - Drv
01227B	1	Upper mounting plate - Pass
01282B	1	Dual shock tube - Pass
01228B	1	Lower mounting bracket - Pass
01229B	1	Lower mounting bracket - Drv
03514	1	Dual Shock Brace - Drv
03515	1	Dual Shock Brace - Pass
01247	2	Washer
68	2	0.875 x 0.156 x 3.125 sleeve
74	8	0.750 x 0.090 x 1.450 sleeve
75	8	1-1/4 x 5/16 x 0.500 sleeve
76	2	1-1/4 x 1/8 tapered cut sleeve
01263	2	Shock Bolt ring
N38SS	6	3/8"-16 nut
W38S	6	3/8" USS washer
SB34BK	8	Hourglass bushings 3/4" ID
342701	1	Loc-tite
407	1	Bolt Pack - Dual Shock Brace
	8	3/8" USS washer
	4	7/16"-14 x 1-1/4" bolt
	4	7/16"-14 prevailing torque nut
627	1	Bolt pack
	2	14mm-2.00 x 120 bolt
	2	14mm-2.00 prevailing torque nut
	6	9/16"-12 x 5-1/2" bolt
	4	9/16"-12 x 1-3/4" bolt
	22	9/16" SAE washer
	10	9/16"-12 prevailing torque nut
	4	1/2"-13 x 1-1/2" bolt
	6	1/2" SAE Washer
	2	1/2"-13 Prevailing Torque Nut

**FIGURE 2**



11. Install shock hoop to OE slot shown in Figure 3 with 14mm x 120mm bolt and 9/16" SAE washer.

**FIGURE 3**



12. Loosely install the dual shock brace to the front of the top mounting location with a 1/2" x 1-1/2" bolt into the tube and another 1/2" bolt with torque nut through other hole. The brace will mount to the front of the coil bucket. (Fig 4)

*Note: it may be necessary to bend the brakeline slightly at tube mounting location.*

**FIGURE 4**



13. Lightly tighten the dual shock brace so that the two holes can be marked on the coil bucket to be drilled out. (Fig 5A). Mark the location of the two holes on the front of the coil bucket. Remove the brace and drill the two holes out to 1/2". (Fig 5B)

**FIGURE 5A**

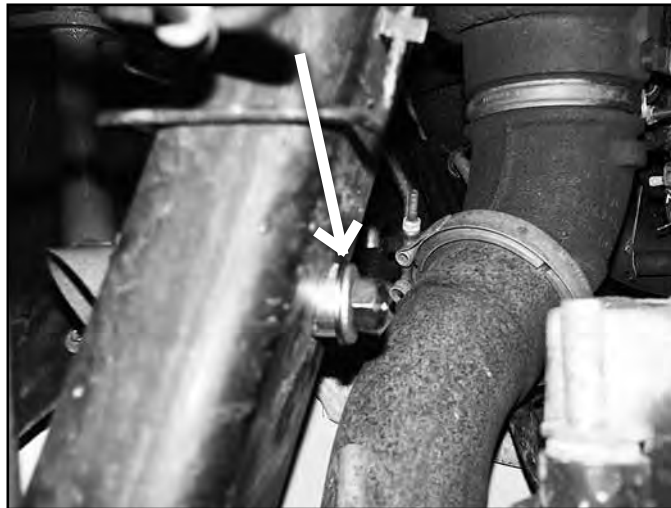


**FIGURE 5B**



14. Reinstall the brace to the upper mount with the 1/2" hardware. Attach to the coil bucket with the provided 7/16" bolt, 7/16" nut, and 3/8" USS washers in bolt pack 407. Run the bolts from the inside of the coil bucket outwards towards the front of the truck. Leave hardware loose.
15. Install sleeve onto bolt from inside frame rail. Ensure that sleeve is centered between slot. (Fig 6).  
*IMPORTANT: This will keep the end of the tube from sliding around. Install tapered sleeve, 3/16" thick washer, and torque nut.*

**FIGURE 6**



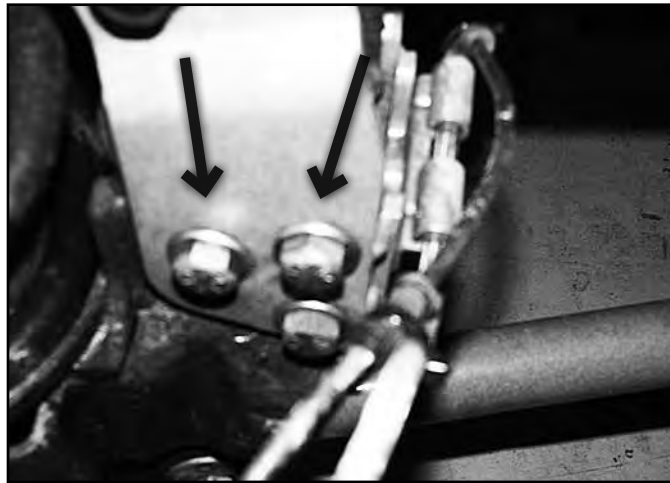
16. Tighten bolts in the following order. Torque 14mm and 9/16" hardware to 110 ft-lbs, shock tower hardware 35 ft-lbs, 1/2" hardware to 75 ft-lbs., and 7/16" hardware to 50 ft-lbs. (Fig 7.)

**FIGURE 7**



17. Remove 3 - 9/16" bolts indicated in figure 8. Note: it will be much easier to install with the wheels turned. (Fig. 8)

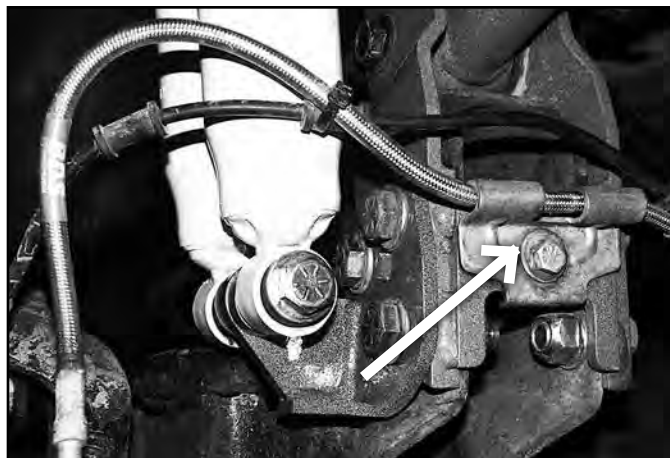
**FIGURE 8**



18. Install bracket with new 9/16" x 1-3/4" and 5-1/2" bolts, washers and nuts. Ensure sleeve is still located between upper control arm relocation bracket. (Fig. 9)

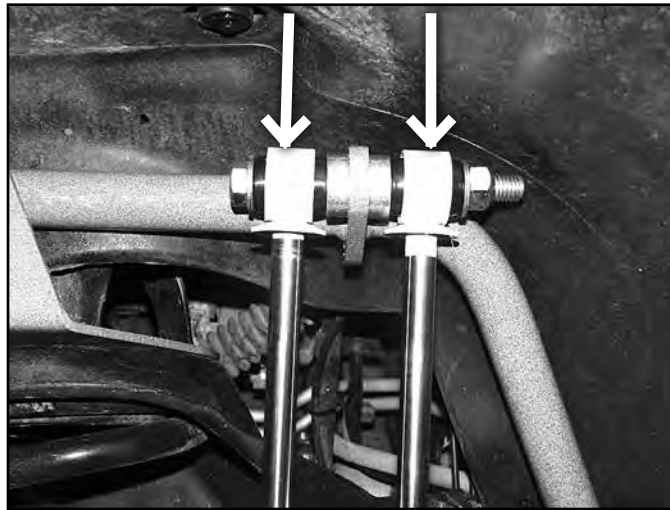
*Note: Brakeline must be mounted into relocation bracket as shown.*

**FIGURE 9**



19. Torque 9/16" hardware to 95 ft-lbs.
20. Grease and install SB34 bushings into each end of all of the shocks. These bushings come in the box kit with brackets. Do not use bushings that come in the shock box.
21. Install 74 Sleeves (rolled sleeve) into all shock bushings.
22. Attach shocks to upper mounting hardware with 75-1 sleeves on each side of mounting bracket. (Fig. 10) Fox 2.0 shocks will mount body up and BDS series shocks will mount body down.

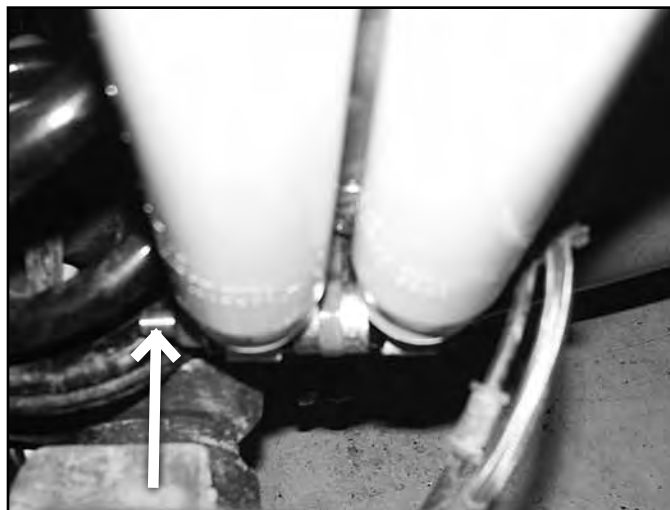
**FIGURE 10**



23. Attach shock lower mounting point the same as above. Run bolt from back to front. (Fig 10/11).

*Note: It may be necessary to index the coil slightly to gain clearance, or trim excess from tip of bolt.*

**FIGURE 11**



24. Attach top of shock (inside coil) to shock tower. Tighten until bushings begin to swell.
25. Torque 9/16" shock mounting bolts to 95 ft-lbs
26. If sway bar and trackbar were disconnect, reattach and torque to proper specifications.
27. Cycle steering and check for interference. 4.5"-5" backspaced wheels must be used with this kit. Stock tires and wheels may rub the rear shock. The turning radius may need to be limited to eliminate interference.
28. Recheck all fasteners for proper torque, check again after 500 miles, and at regularly scheduled maintenance intervals.