Front Dual Shock Hoop

Dodge Ram 2500 | 2014 & Dodge Ram 3500 | 2013

Part #: 122615

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.

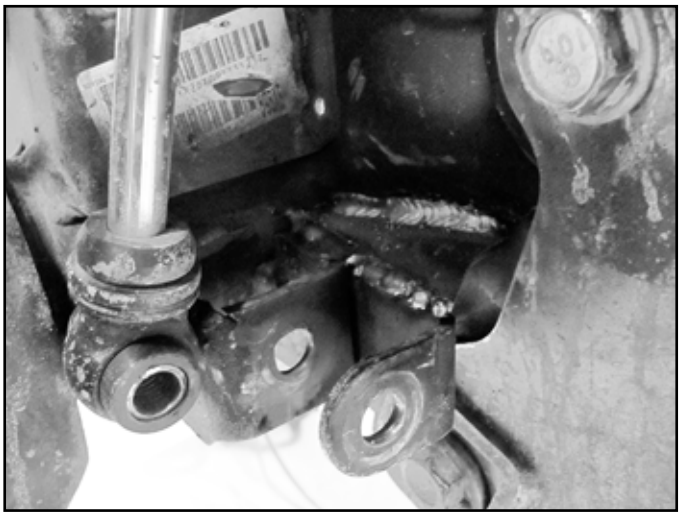
Box Kit		
Part #	*Qty*	*Description*
02587	1	Dual shock hoop - drv
02588	1	Dual shock hoop - pass
73	2	1.250 x 0.312 x 0.875 - long spacer @ bottom
75	4	1.250 X 0.312 X 0.425 - short spacer @ top
799	1	Rivet nut installation bolt pack
95105A169	5	1/2" Rivet nuts
948	1	Bolt Pack - Dual Shock Hoop
02735	2	Weld on shock support gusset
02260	2	Weld on steering stops
02907	2	Weld on shock support formed

INSTALLATION INSTRUCTIONS

1. Park vehicle on clean, flat, and level surface. Block rear wheels for safety.
2. Disconnect the battery a minor amount of welding is required.
3. Raise front of vehicle and support frame rails with jack stands.
4. Remove front wheels.
5. Support front axle with jack.
6. Disconnect front shocks and remove from vehicle.
7. Prep area for welding. Place support gusset up to the lower shock bracket at shown. Weld in place. Ensure there is adequate clearance to radius arms with top gusset. (Fig 1, 2)

FIGURE 1

FIGURE 2



8. Hold for formed weld on shock gusset over the factory mount as shown. Align the holes using the factory bolt and weld the support in place.

FIGURE 3

9. Weld steering stop onto lower inner "c." (Fig 4) This is required for tire to shock clearance.

FIGURE 4

10. Paint welded areas to prevent corrosion.

11. Install upper shock hoop to the bottom side of the factory shock mount with ¾" bolt. The driver's side will require the inner fender well to be trimmed. (Fig 5, 6, 7)

FIGURE 5

FIGURE 6

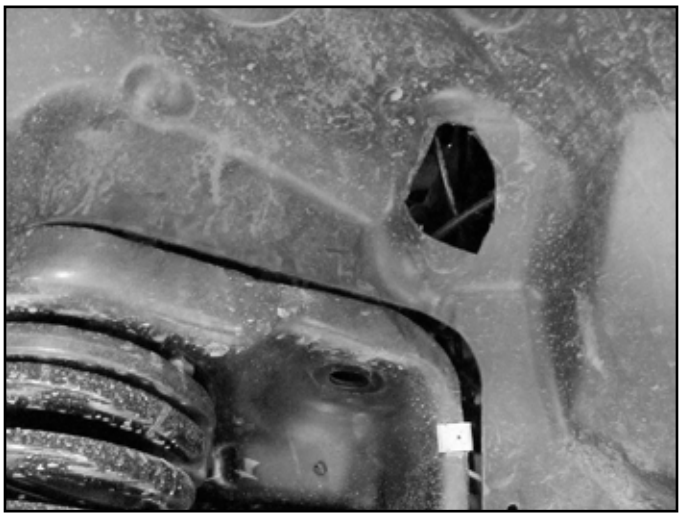


FIGURE 7

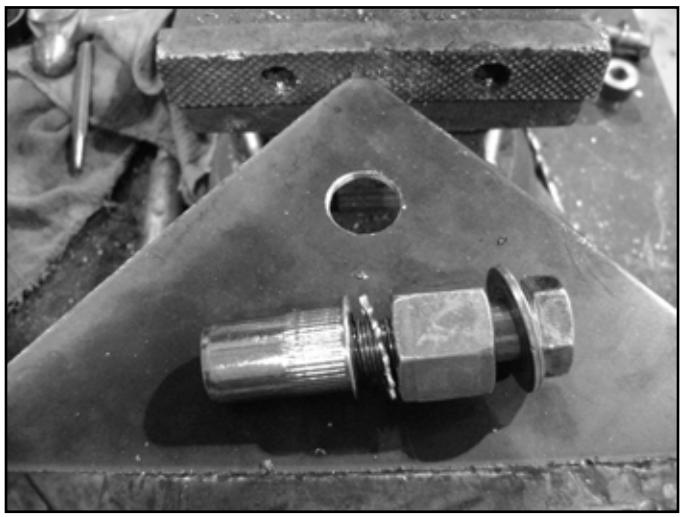
12. Mark the center of the two ends of the tube. Remove tube and drill to 11/16" to install the rivet nuts. Remove hoop and install rivet nuts.
13. Drill hole to appropriate size for rivet nut installation. 1/2" Rivnuts require an 11/16" hole. It is crititcal that this hole is drilled to the correct size. Remove any burrs that could keep the rivet nut from seating flat against either side of the hole surface.

Tip *If the correct drill size is not available, it is possible to drill the hole to an available smaller size and slowly grind it out to until the rivet nut fits tight.*

RIVET NUT INSTALLATION TOOL ASSEMBLY

14. For a 1/2" rivet nut, place the provided 1/2" SAE washer on a 1/2" x 2" bolt followed by a 9/16" high nut and 1/2" serrated edge lock washer. Thread this tool assembly into the rivet nut as shown. (Fig. 8)

FIGURE 8 - 1/2" RIVET NUT SHOWN



RIVET NUT INSTALLATION

15. Place the installation tool with the rivet nut threaded on the end into the appropriately sized hole.
16. Hold the nut closest to the rivet nut still with an 7/8" wrench and tighten the 1/2" bolt with a 3/4" wrench to set the rivet nut. Be sure to hold the rivet nut flush to the surface and square to the hole as it is tightened. (Fig. 9)

Tip *If available, an impact gun is recommended for tightening the bolt to ensure the rivet nut remains sqaure to the hole and to ease holding the nut from spinning.*

FIGURE 9 - 1/2" RIVET NUT SHOWN

TORQUE SPECIFICATIONS

17. 1/2" rivet nuts will approach 90 ft lbs for maximum grip strength. Do not exceed 100 ft-lbs when setting the rivet nut.

Tip *If using the recommended inpact gun, use caution to not exceed the recommended torque specificatons.*

RIVET NUT TOOL REMOVAL

18. Once the center bolt is tightened, remain holding the nut from spinning with the wrench and loosen the center bolt to remove the installation tool.

Caution *It is very important to hold the nut as the bolt is loosened because the grip of the star washer will try to spin the rivet nut and ruin the installation.*

19. Verify proper installation by checking for consistent rivet nut deformation to see the threads are sqaure and centered to the rivet nut. (Fig. 10).

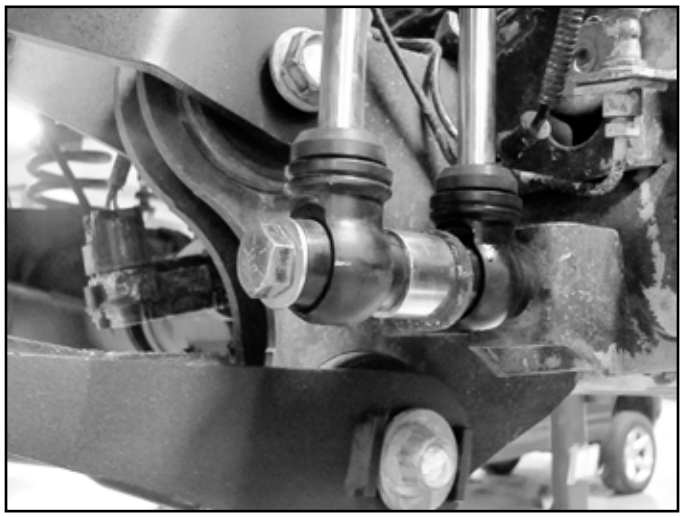
FIGURE 10

20. Reinstall hoop with ½" hardware into rivet nuts, and ¾" bolt at the top location. Tighten ¾" hardware to 150 ft-lbs, ½" hardware to 65 ft-lbs.
21. Install shocks with spacers at top with 9/16" x 5-1/2" bolt, washers, and nut. Tighten to 65 ft-lbs. (Fig 11)

FIGURE 11

22. Attach lower shock mount to the bottom with 9/16" x 5-1/2" bolt, washers, and nut with the wide spacer between shocks as shown. Tighten to 65 ft-lbs. (Fig 12)

FIGURE 12



23. Cycle steering to ensure adequate clearance to the shocks. Kit is designed to work with 4-1/2"~5-1/2" of backspaced wheels.