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**19-21 DODGE RAM 1500 4WD  
CSS-D16-6  
4" REAR KIT**

**READ THE FOLLOWING NOTES PRIOR TO INSTALLATION**

DO NOT ALTER THE FINISH OF ANY COMPONENTS. CHANGING THE FINISH SUCH AS CHROMING, ZINC-PLATING, OR ANY TYPE OF PAINTING, CAN CAUSE STRUCTURAL FATIGUE OF COMPONENTS.

PRIOR TO INSTALLATION, COMPARE THE PARTS LIST WITH THE COMPONENTS RECEIVED IN THE KIT. IF ANY PIECES ARE MISSING PLEASE CONTACT YOUR LOCAL RETAILER OR CST PERFORMANCE SUSPENSION AT 951-571-0212, AND YOU WILL BE TAKEN CARE OF IN A TIMELY MANNER.

READ ALL INSTRUCTION FROM START TO FINISH BEFORE BEGINNING INSTALLATION. IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED, SEVERE FRAME, TIRE, OR SUSPENSION DAMAGE MAY RESULT TO THE VEHICLE. IF YOU INCUR A PROBLEM DURING THE INSTALLATION OF THIS KIT, FIRST BE SURE YOU HAVE FOLLOWED THE INSTRUCTION FROM START TO FINISH ACCURATELY AND IF SO PLEASE CALL 951-571-0212, WE WILL DO OUR BEST OVER THE PHONE TO ASSIST YOU WITH YOUR PROBLEM, OR DIRECT YOU ACCORDINGLY.

VEHICLES THAT RECEIVE OVER SIZED TIRES SHOULD CHECK BALL JOINTS, TIE ROD ENDS AND PIVOT POINTS, AS WELL AS GENERALLY INSPECT THE ENTIRE SUSPENSION FRONT TO REAR EVERY 2500 – 5000 MILES FOR WEAR AND REPLACE PARTS AS NEEDED.

ALSO, WE WOULD LOVE TO SEE YOUR TRUCK COMPLETED. IF YOU WOULD LIKE TO HAVE YOUR VEHICLE FEATURED ON OUR SOCIAL MEDIA PAGES, PLEASE E-MAIL US AT [sales@cstsuspension.com](mailto:sales@cstsuspension.com) WITH PICTURES OF YOUR VEHICLE, LIST OF MODS, YOUR ACCOUNT NAME AND WE WILL GET THEM POSTED. THANK YOU FOR SUPPORTING CST!!!



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## Before and after measurements

We suggest you measure from the center of wheel hub to bottom of fender

BEFORE: DF \_\_\_\_\_ PF \_\_\_\_\_ DR \_\_\_\_\_ PR \_\_\_\_\_  
AFTER: DF \_\_\_\_\_ PF \_\_\_\_\_ DR \_\_\_\_\_ PR \_\_\_\_\_

### Instructions:

1. Lift the truck and support it under the frame with jack stands. Do not work under an unsupported vehicle.
2. Remove the rear wheels.
3. Disconnect the sway bar from the frame.
4. Disconnect the pan hard bar from the frame.
5. Disconnect the ABS wires and brake line brackets & clips from the frame to allow enough room to droop the rear axle without over stretching them.
6. Support the rear axle with a jack. Use the jack to relieve tension off of the rear suspension.
7. Remove the rear shocks. Let the jack down far enough to remove the coil springs. Make sure not to over extend any brake lines or wires. Remove the coil springs (some trucks you may have to loosen the trailing arm bolts to get enough down travel to remove the spring).
8. Place the spring spacers into place and bolt them into the nut plate. Use red Loctite.





9. Install the pan hard bracket. Put the bolt with the bar welded to it on the inside of the frame with the threads sticking out. Slide the supplied crush sleeve into the frame where the pan hard bar was bolted on. Slide the bracket over the outside of the frame. Bolt the pan hard bar into the bracket in the lowest hole using the supplied bolts, but leave loose.
10. Install the pan hard bar support using the supplied hardware. The end with the longer sleeve goes in the middle hole on the pan hard bracket and the end with the shorter sleeve will line up with a hole in the OEM pan hard cross member.
11. You can tighten all pan hard bracket bolts at this time, except for the pan hard bar itself. Leave that until the truck is on the ground at ride height.
12. Reinstall the coil springs; reuse the rubber isolators between the spacer and factory coil springs. You may need to use spring compressors to get the coils in. Make sure you do not over stretch any brake lines or ABS wires. You can free up the brake lines and ABS wires by unbolting the rear calipers.
13. Install new shocks using OEM hardware.
14. Let the rear end hang on the shocks. Make sure the brake lines and wires are not over stretched.

15. Install the new sway bar brackets using supplied metric flanged bolt in the OEM sway bar location using Loctite. Use supplied 7/16" bolts and nut handle in upper hole and supplied 3/8" bolts in lower hole. Sway bar bracket goes on with the bend pointing out and at the rear of the truck. Driver side shown in picture below.



16. Install the rear brake line bracket using the OEM hardware at the frame and supplied hardware where the brake line meets the bracket. Gently bend the brake lines to meet the brackets. See driver and passenger side pictures.



17. Re-attach ABS wires and any other clips that may have been removed for clearance.
18. Install the tires and set vehicle on the ground. Torque lug nuts to 100 ft-lbs. tighten.
19. If you loosened the trailing arms, tighten at this time
20. Tighten pan hard bar.
21. Do a final inspection of every part you have installed and make sure everything is tight.

22. Be sure to perform a suspension/wheel re-torque between 300-500 of initial use.

**For technical assistance call CST at 951-571-0212**

**Or e-mail us @ [sales@cstsuspension.com](mailto:sales@cstsuspension.com)**

**Thank you for buying CST Performance Suspension!**