

# 2" Suspension System

Jeep Grand Cherokee WJ | 1999-2004

Part #: 034203

Rev. 120518



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## 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

### PRE-INSTALLATION MEASUREMENTS

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

LF \_\_\_\_\_ RF \_\_\_\_\_ LR \_\_\_\_\_ RR \_\_\_\_\_

### FRONT INSTALLATION

1. Park the vehicle on a clean, flat surface and block the rear wheels for safety.
2. Raise the front of the vehicle and support with jack stands under the frame behind the front lower control arm pockets.
3. Remove the wheels.
4. Remove the OE shocks. Discard the hardware and the shocks.
5. Support the front axle with a hydraulic jack and disconnect the front track bar from the driver's side frame mount. Retain hardware.
6. Disconnect the front sway bar links from the axle. Retain the mounting hardware.
7. Remove the cotter pin and nut from the drag link-to-pitman arm tie rod end. Dislodge the end from the pitman arm with a pickle fork or other appropriate puller.
8. Lower the axle just enough to allow removal of the front OE coil springs. Remove the springs from the vehicle.
9. Install the new coil springs in conjunction with the original spring isolators. Ensure that the coils are seated in the axle mount properly.
10. Install the new front shocks with the new upper and lower hardware. Torque the lower mounting hardware to 25 ft-lbs and the upper until the stem bushings begin to swell.
11. Attach the drag link to the pitman arm and fasten with the OE castellated nut and cotter pin. Torque nut to 50 ft-lbs. Note: Do not loose nut to line up the cotter pin hole. Replace worn cotter pin if necessary.
12. Reattach the sway bar links to the original axle mounts with the OE hardware. Torque hardware to 50 ft-lbs.

### Box Kit

Part #	Qty	Description
034203	2	Coils
034207	2	Coils

13. Install the front wheels and lower the vehicle to the ground. Bounce the front of the vehicle to settle the suspension.
14. Install the front track bar in the original mount with the OE hardware. Torque mounting bolt to 55 ft-lbs. Note: To help with aligning the track bar with the mounting hole have an assistant turn the steering wheel to shift the axle side-to-side.
15. Check all mounting hardware for proper torque.

### REAR INSTALLATION

16. Block the front wheels for safety.
17. Raise the rear of the vehicle and support with jack stands under the frame just in front of the rear lower control arm mounts.
18. Remove the wheels.
19. Support the rear axle with a hydraulic jack.
20. Remove the OE rear shocks. Retain mounting hardware and discard the shocks.
21. Disconnect the OE rear sway bar links from the sway bar. Retain hardware.
22. Using channel lock pliers, remove the rubber bump stop from the axle inside each of the rear coil springs. Allow the bump stop to rest free in the coil spring.
23. Lower the axle and remove the rear coil springs and bump stops.
24. Lightly grease and place the OE rubber bump stops in the new rear coil springs. Install the coil springs in the vehicle in conjunction with the OE isolators. Ensure that the coils are seated properly. Press the bump stop back into the axle mounting cup.
25. Reattach the rear sway bar links to the sway bar with the OE hardware. Torque to 30 ft-lbs.

26. Install the new shocks with the original hardware. At the top mount install the provided 5/8" spacer washers on the shock sleeve to allow for proper compress of the shock bushing.
27. Install wheels and lower the vehicle to the ground.
28. Check all hardware for proper torque.
29. Check hardware after 500 miles.
30. Center steering wheel.



### **WE WANT TO SEE YOUR RIDE!**

Grab photos of your BDS-equipped truck in action and send them in for a chance to be featured. Send it in to our Bad Ass Rides customer gallery at [bds-suspension.com/bar](http://bds-suspension.com/bar) and post them on the BDS Fan Page on Facebook at [facebook.com/BDSSuspensions](https://facebook.com/BDSSuspensions). Don't forget about your BDS swag! BDS offers t-shirts, hoodies, decals and more available on the BDS website or through your local BDS distributor.

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## **TIME TO HAVE SOME FUN**

**Thank you for choosing BDS Suspension.**

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