

2004+ Dodge Ram 2500 Front axle installation instructions

(For AAM 10.25 Differential)

What's in the Box:

- 2 Orange spherical sealing technology seals
- 2 Assembled CV joints
- 1 Long Axle (Passenger side)
- 1 Short Axle (Drivers side)
- 1 Tube of high performance synthetic grease
- 1 Removal tool

Required tools:

- Lift or a Jack and a pair of Jack Stands
- ½ in or ¾ in drive Impact Gun
- ½ in to ¾ in adapter if ½ in impact gun used
- ¾ in deep well socket
- 1- 11/16in socket
- 18mm Socket
- ½ drive breaker bar
- 3/16in Allen Key
- Coarse Sandpaper
- Hammer or other tool of persuasion

Required Parts from truck:

- 1 2500 series Ram Truck
- 2 Bearing dust shields
- 2 Spindle nuts



1. Remove lug nuts with 3/4 in. socket.



2. Remove cotter pin that holds spindle nut in place.
3. Remove spindle nut with a 1 11/16 in socket.





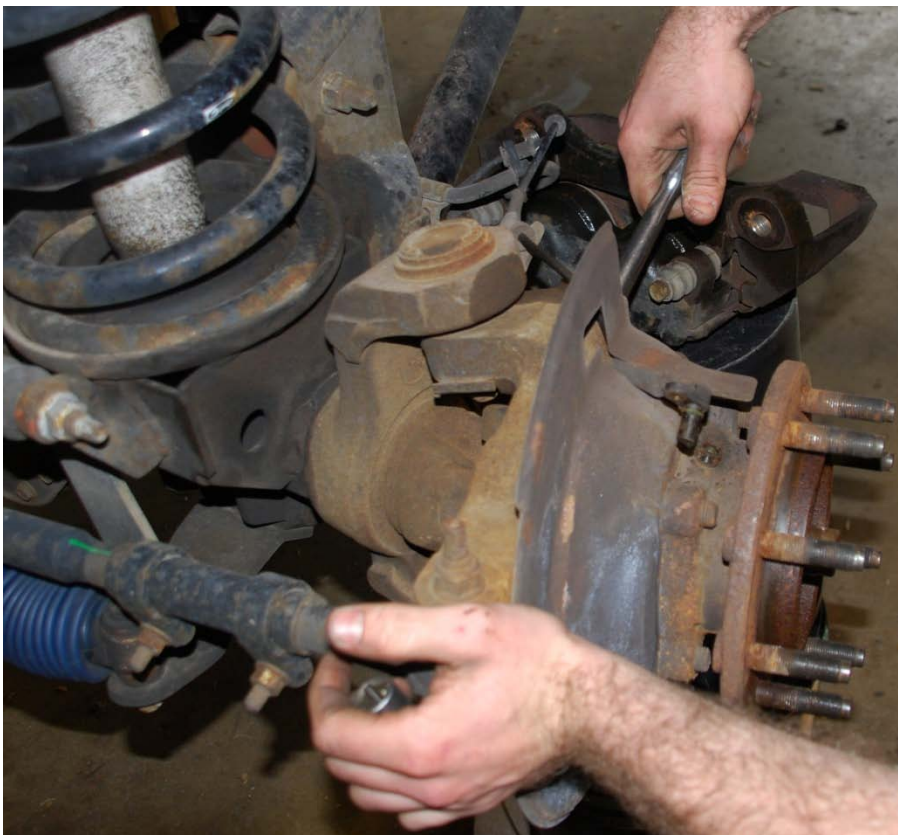
5. Remove caliper from knuckle, make sure that the caliper is supported and not hanging from the brake lines.
6. Remove the brake rotor.



7. Remove the ABS sensor from the wheel bearing using a 3/16" Allen key.



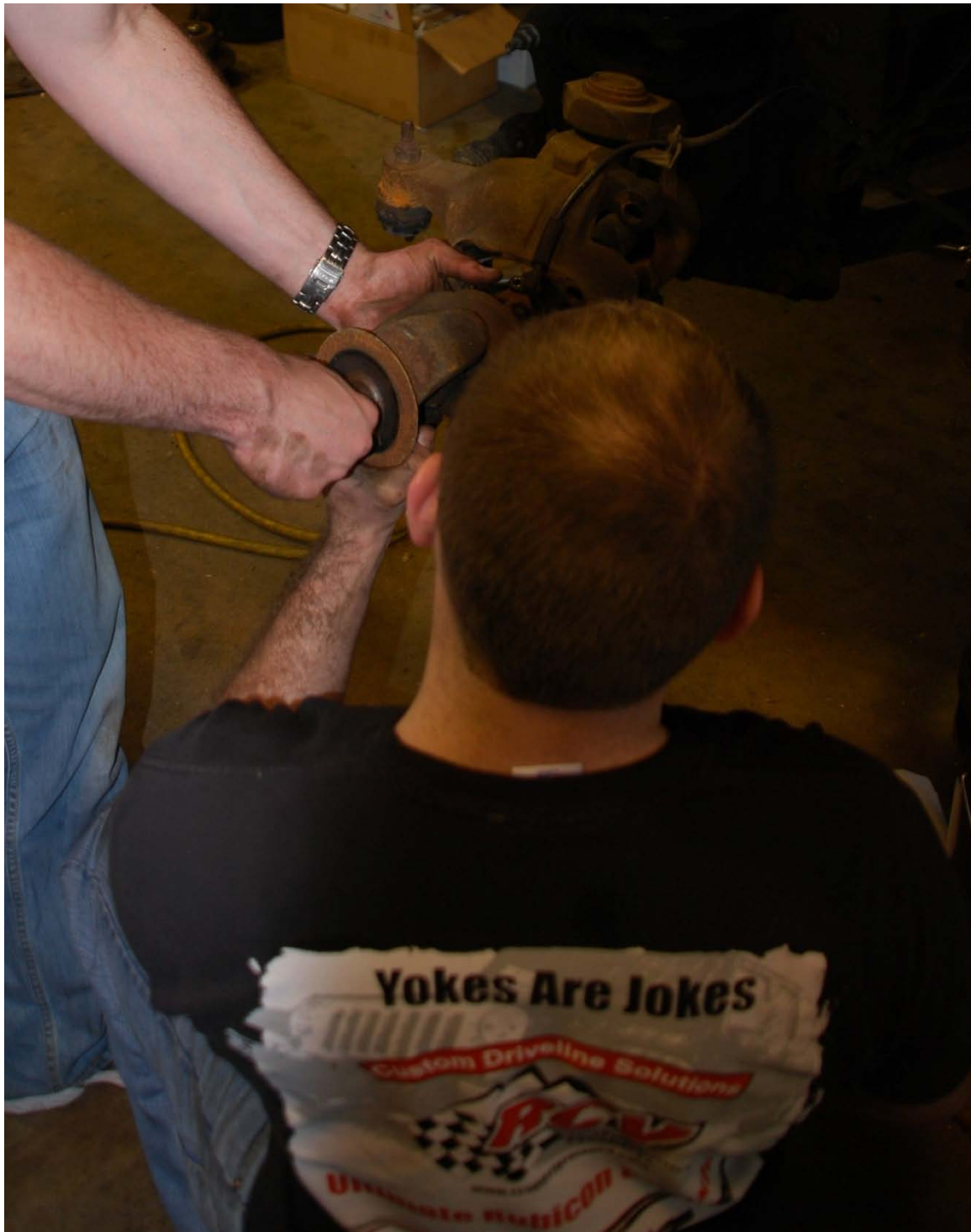
8. Unbolt the 4 unit bearing bolts with an 18mm socket.



9. Remove the wheel bearing assembly and dust shield. A large hammer may be required if rust is present.



10. Remove OEM axle by pulling it straight through the knuckle.





11. Remove bearing flange from OEM Axle. Be careful not to damage the flange during removal.



12. Install the bearing flange on the new RCV Performance axle. If the bearing flange is extremely rusty use sand paper to clean off the mating surfaces.



13. Sand the inside of the knuckle with fine sandpaper to remove all rust and other contaminants.



14. Lubricate the seal area on the axle. (The larger diameter portion of the axle near the diff spline.)
15. Glide the axle through the knuckle and into the differential while holding the boot inside of the knuckle. If the boot is installed before sliding the axle through the knuckle it will not fit through wheel bearing hole.

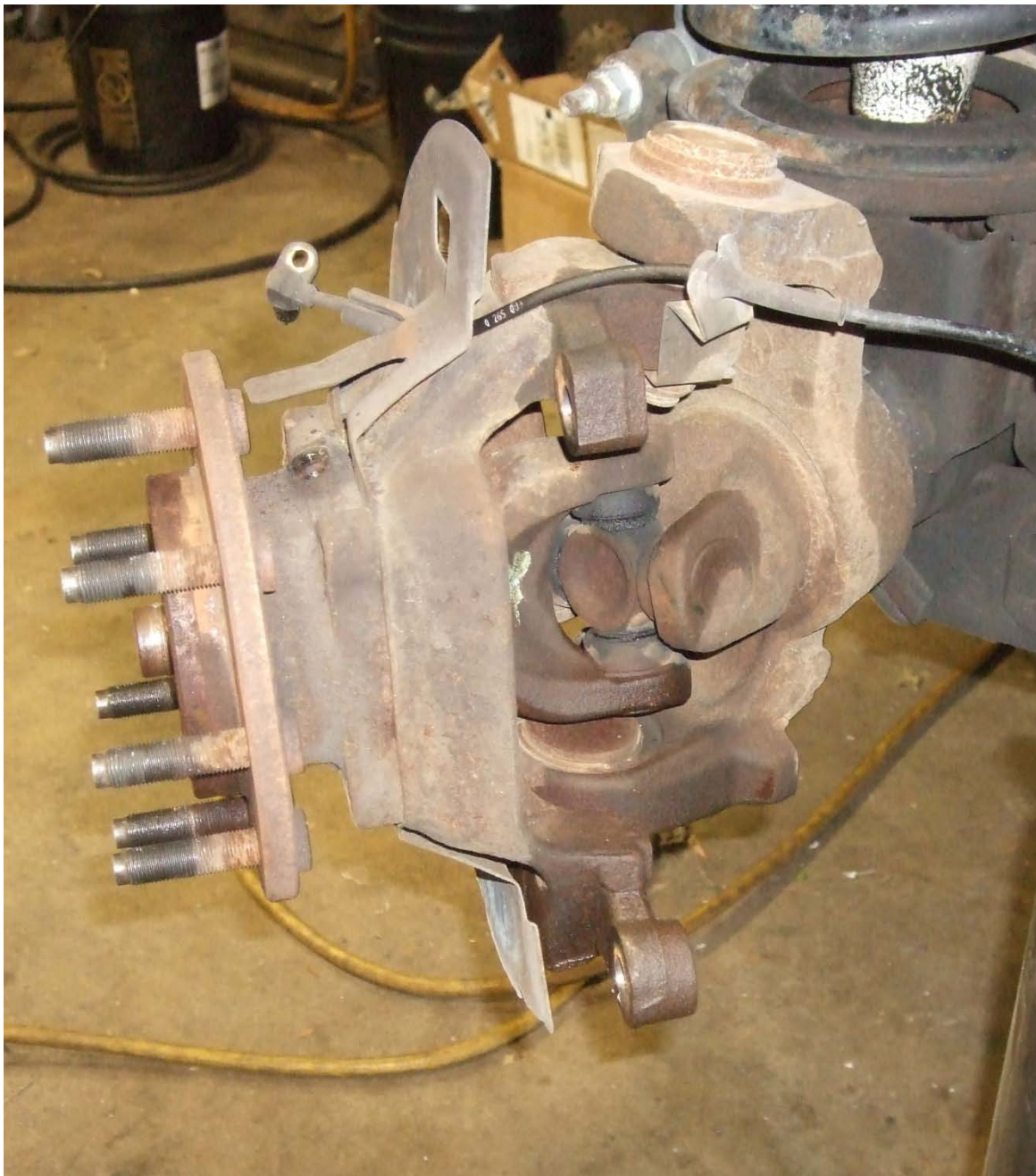


16. Verify that the differential has accepted the diff spline.
17. Reinstall the wheel bearing. Make sure the ABS sensor is still on the top of the bearing.



18. Reinstall the dust shield
19. Reinstall the brake rotor and caliper. Note: the brake caliper pistons will most likely need to be pushed back so the pads will fit the rotor. Use a brake pad spreader, C-clamp(s), or two larger screwdrivers to push the pads / pistons back. Use caution not to damage the pads
20. Tighten the spindle nut to 149 ft-lbs
21. Rotate the axle 5 to 10 times to seat the hub bearing
22. Tighten the spindle nut to a final torque of 263 ft-lbs
23. Re-install the cotter pin
24. Install the wheel and tire assembly.
25. Apply the brakes several times to seat the brake pads. Do not attempt to drive the vehicle until the brake pedal is firm.

Before:



After:



Thank you for purchasing RCV Performance Ram 2500/3500 CV Axles. If you have any question, please feel free to call our tech hotline at 815.877.7473. We would also encourage you to leave feedback on our website at www.RCVPERFORMANCE.com. We are always trying to improve our product line so any comments or reviews are definitely appreciated!