

kelderman air ride

"The difference in the ride is like night and day"

1994 & Newer Dodge Front System

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Kelderman Air Ride has just developed its most recent system in a line of quality air ride suspension systems. This system was developed to improve the ride of the new 2003 Dodge 3/4 & one-ton pickups.

There are many advantages to equipping your truck with air ride suspension:

- Improves the ride of the truck
- Adjustable ride height
- Increases load carrying capacity



2006 Dodge



Warranty Disclaimer Notice Read Before Beginning Installation

Some Kelderman Air Ride kits contain both fine thread and course thread fasteners, fittings and air bag mountings. Before attempting to tighten

any threaded portion of the Air Ride, check to be sure the threads are the same size and thread count before attempting to tighten. Damaged or cross-

threaded fasteners, fittings and air bags caused by improper size. Thread count or misalignment are not covered by warranty.

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Tools Required for Installation of the Air Ride Unit

Tools and equipment required:

(2) Floor Jacks or Hydraulic Jacks

(2) Jack Stands

Wheel Chocks

Combination Wrench Set

Socket Set

Hammer

Before installation of the Air Ride unit, prepare a smooth, flat, hard surface and have all tools and equipment needed for the job. Chock the rear wheels of the truck, to prevent it from rolling forward or rearward.

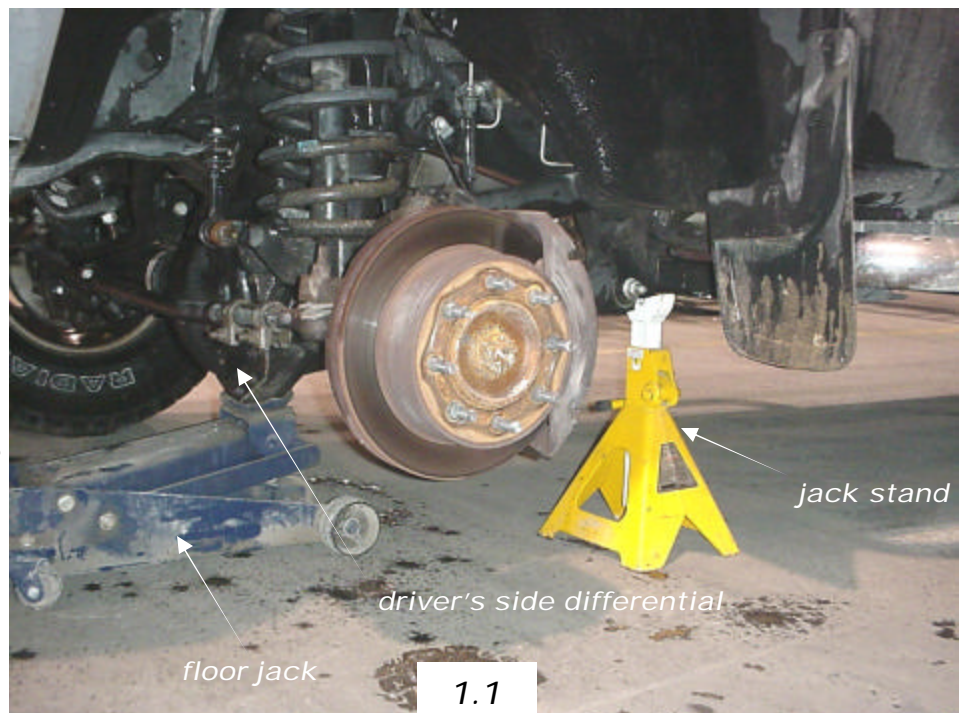


DANGER

When raising or lowering the truck, keep jack stands in place to prevent the truck from falling, which could cause severe personal injury or death

Installing the Front Air Ride (Air Bag & Shock Installation)

Before installation, measure coil height. Record this measurement for future use. This will gauge how much air pressure is needed in the bags when installation is complete. It is also acceptable to measure the distance between the bottom of the fender and the ground. (1.2)



Installation Instructions (continued)

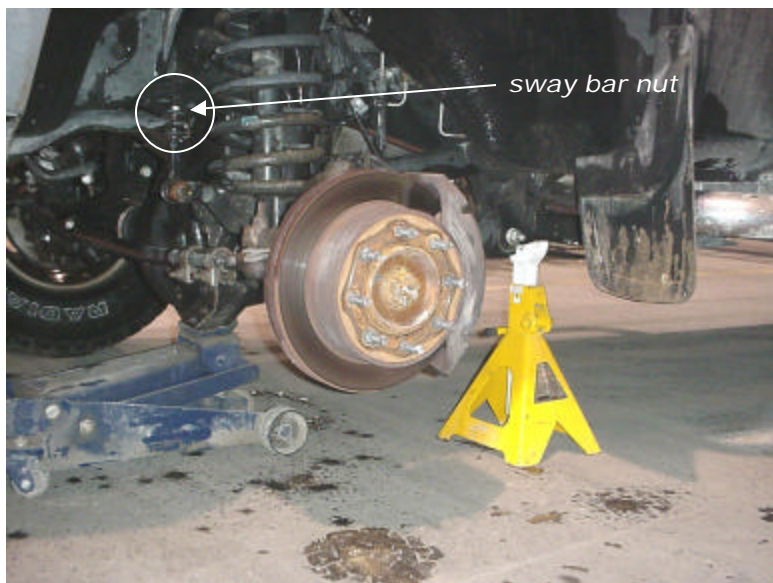
Step 1. Place a jack under driver's side differential and jack up until the tire is off the ground. Place a jack stand under the frame of the truck. (1.1).

Step 2. Remove tire.

Step 3. Remove top shock nut, bottom shock bolt, shock tower bolts and nut that holds sway bar. (1.3)

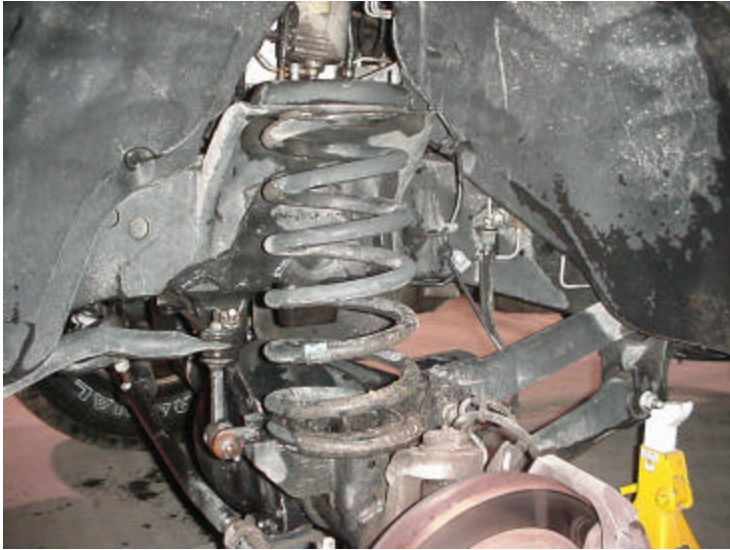


1.2



1.3

Step 4. Let jack down in order to remove shock tower and shock. (1.4)



1.4



1.5

Step 5. Remove coil spring (1.5) **NOTE: The shocks, shock tower and coil springs will not be reused.

Step 6. Locate driver's side air bag mounts. Shock mounts should face rear of truck.

Step 7. The air inlet should face the front of the truck. (1.8)
When assembling unit, it is critical that the outside bolts on top of unit are parallel with the bottom tabs. The big threaded stud gets a 3/4" flat washer & 3/4" jam nut. The small stud gets 1/2" lock washer & jam nut. (1.6)



1.6

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Step 8. Locate proper position before tightening. (1.7 & 1.8)

Step 9. Put assembly into position and tighten bottom mount with the lower factory shock bolt. Raise jack so upper shock bracket lines up properly over the 3/8" bolts. Fasten in place. Make sure top and bottom shock tabs line up correctly. Use the 1/2" x 4 1/2" bolt and spacers to fasten the top of the shock into the upper shock mounting bracket. (1.7 & 1.8)



1.7



1.8

Step 10. Check the air bags and lines to be sure they are not exposed to any sharp objects or other components that could cause wear or damage. Check clearance on brake lines. It may be necessary to end the brake line bracket back.

Step 11. Tighten air fitting into top of air bag. Insert air line into fitting and run line to preferred fill valve location (if using in-cab controls, run line to solenoid) .

Step 12. Run air lines. Make sure lines are not near any exhaust or sharp components. Reattach sway bar. Put tire back on and torque to factory specs (refer to page 3).

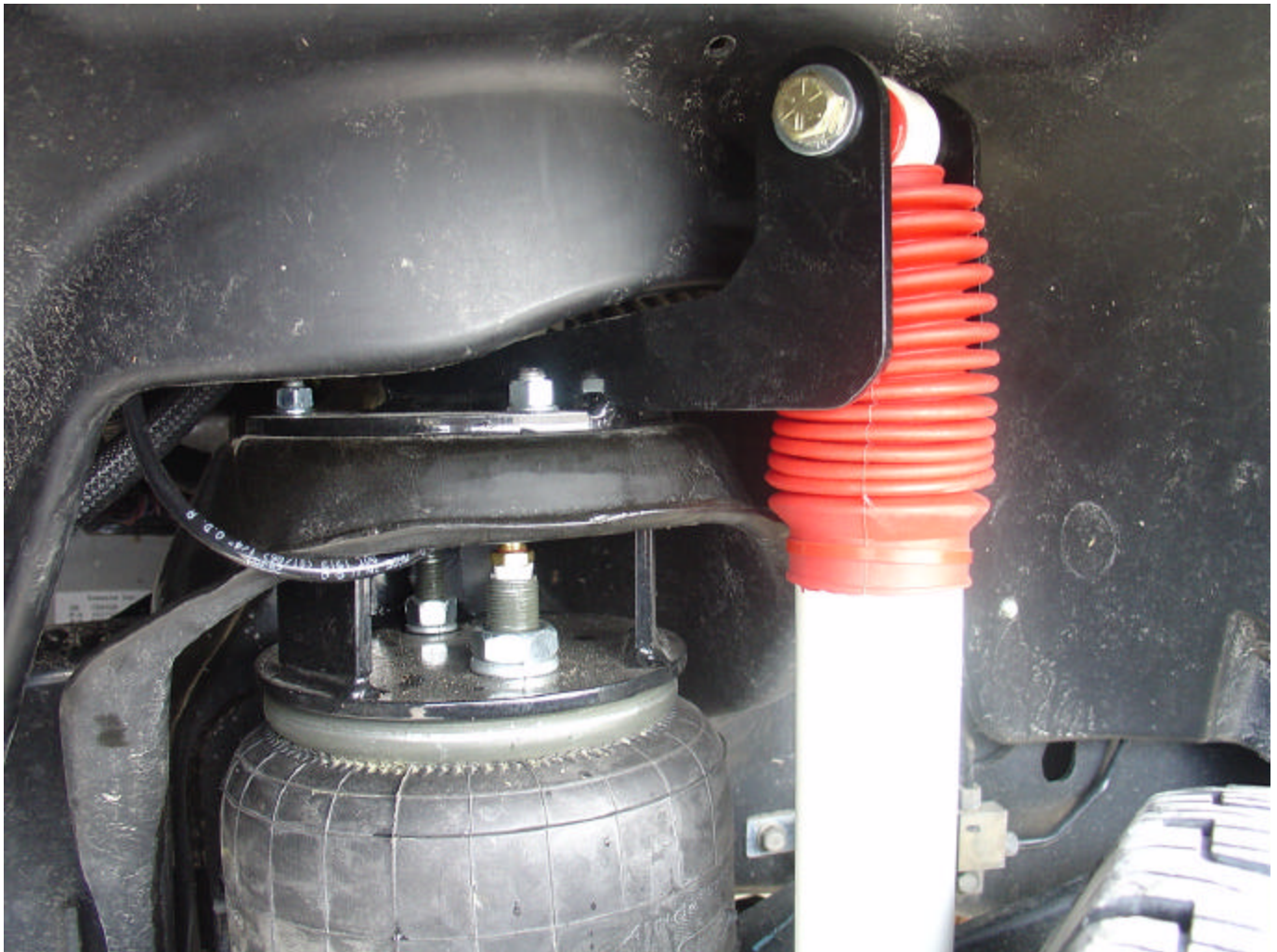
Step 12. Put tire back on. Make sure to tighten lugs to factory specifications.

Step 13. Carefully remove the jacks and the jack stands.

Step 14. Check all fasteners to be sure they are tightened properly.

Step 15. Air p bag to match the distance measured before Step 1. Pressure should be around 60-65 psi. The passenger's side is usually about 5 lbs more than the driver's side.

Step 16. Repeat all steps on other side.



Parts List

(2) - Upper shock / bag mounts (2) 1/2" x 4 1/2" bolts / flat washers / nuts

(2) - 3" risers w/ studs (air bag top mount), (6) 3/8" nuts w/ lock washers

(2) - Lower shock / bag mounts (2) 1/2" x " bolts / lock washers / nuts

(2) - 5323 Air bags (2) 1/2" x 3 1/2" bolts, (2) 1/2" nuts, (2) 1/2" flat washers, (2) 1/2" lock washers, (2) 3/4" fine thread jam nuts, (2) 3/4" lock washers

(2) - Rancho 9000 (99113) shocks

(4) - Rancho shock spacers

(2) - 1/4" 90 degree air fittings

12' - 1/4" air line

(2) - Schrader valves