



D2RX-2-14
D2RX-4-14
Version 1.3

kelderman

AIR SUSPENSION SYSTEMS

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2014-2018 Ram 2500 Rear Coil Replacement Installation Instructions



NOTE: The installation of this kit is fairly straightforward. The most difficult part will be installing bolts in the upper bag mounts. We recommend removing the box or lifting the box up several inches to make more space for working with the hardware.

1. The rear coil springs need to be removed. To do this, remove the bottom shock bolts and unhook the sway bar end links from the sway bar. Lift the truck up from the frame until the coil springs can be removed. **NOTE: MAKE SURE TO WATCH THE BRAKE LINES AND DO NOT STRETCH AND DAMAGE THEM.** You will remove the rubber mounts that the springs sit in also.

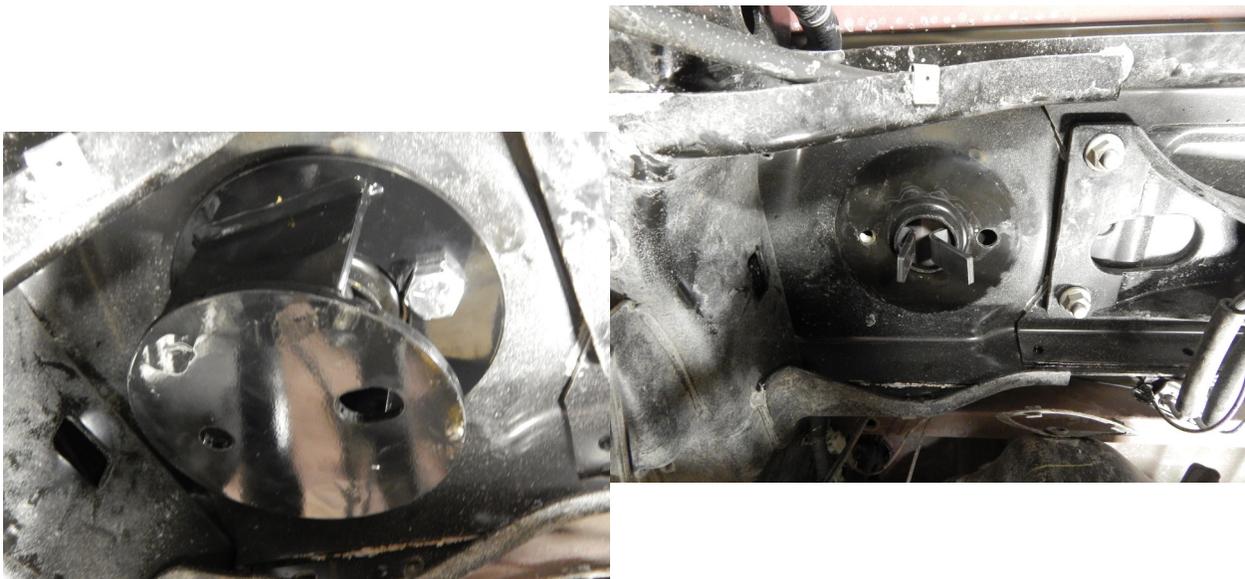


2. Locate the upper air bag mounts (part# 19106-DS and 19107-PS). They fasten into the upper coil mounts with the 1/2" and 3/4" nut mounts (Part # 19113 and 19114). Fasten the upper bag mounts in place and torque the 1/2" bolts to 85 ft./lbs. and the 3/4" bolts to 125 ft./lbs.

NOTE: Wide part of the upper plate goes towards the rear of the vehicle.



NOTE:
*The cut out on the PS upper bag mount
face towards the inside of the truck*



3. Locate the air bags (Part # 5323) and the lower air bag mounts (Part # 19110PS and 19111DS). The air bag fastens to the lower air bag mounts with the 1/2 x 3" bolt. You will want to put the assembly in place and make sure the air bag studs line up with the upper bag mount before you tighten the bolt.
4. Once you get the correct orientation of the air bag tighten the 1/2" bolt to 35 ft./lbs. Place the assembly on the axle. Drill holes into the factory mount on the axle using a 15/32" drill bit and fasten into place with the 7/16 x 1 1/2" bolts.
5. Torque these bolts to 55 ft./lbs. Lower the truck down and fasten the top of the bag to the upper air bag mount with the 1/2" and 3/4" nuts and washers. Torque these nuts to 35 ft./lbs. Insert the air fitting in the air port. Tighten it finger tight then one complete turn with a wrench.



6. With the air suspension is installed, re-connect the factory end links to the sway bar and re-connect the lower shock bolt.

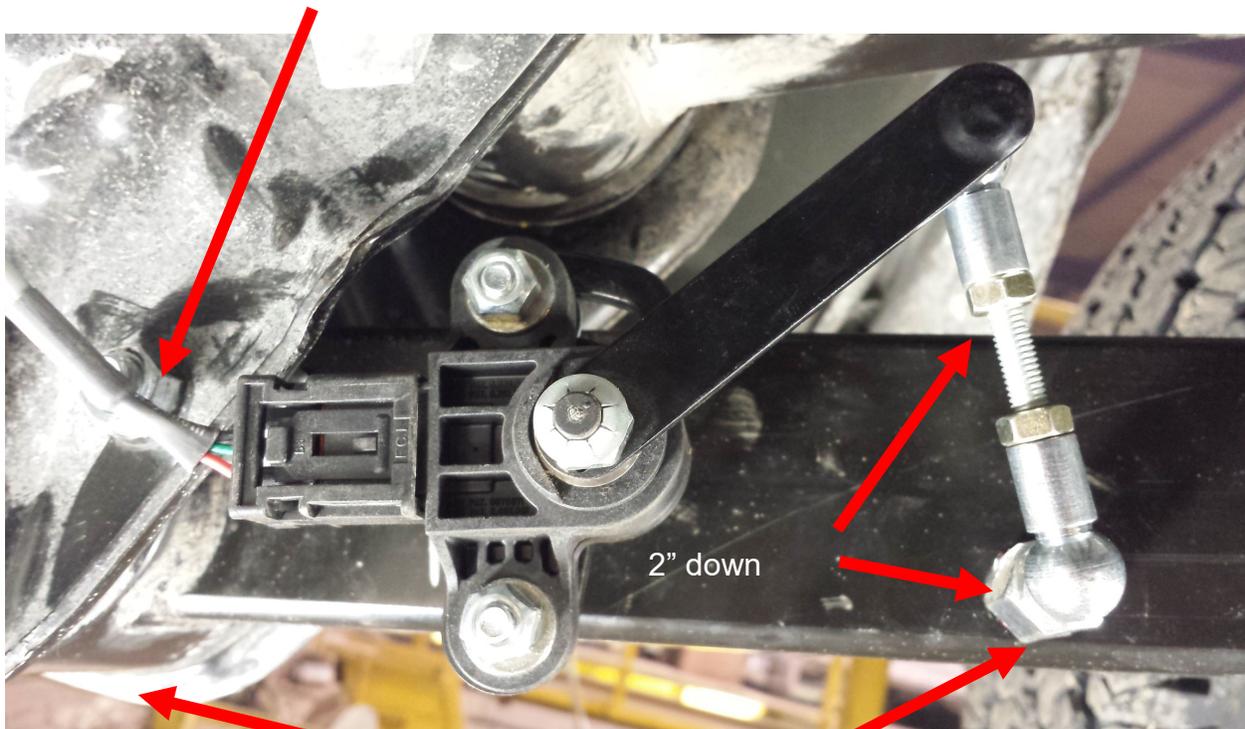


7. The ride height of the 5323 air bags is 8". Measure between the upper and lower air bag mounts. If you are using the wireless remote control set up, use the instructions supplied with the kit. If you are using the electronic self leveling kit, you will need to use those instructions. Steps 9 & 10 will show the mounting position of the rear sensors. The front sensors are also shown in these instructions on page 8.

8. Measure down 2" from the top of the lower trailing arm, and 8 1/4" back from the center of the trailing arm bushing. Use a center punch and drill a 1/4" hole. Use a 5/16-18 tap and thread the hole. Locate the extended nut and ball and use Loctite when installing.

9. Locate the sensor mounting bracket. It fastens into the hole in the lower trailing arm spring perch with the 3/8 x 1" bolt. **NOTE: USE A LOCK WASHER ON THE BOLT HEAD.** THIS WILL KEEP THE BRACKET FROM ROTATING. Torque the 3/8" bolt to 35 ft./lbs.

Use a lock washer on the bolt head side of the bracket

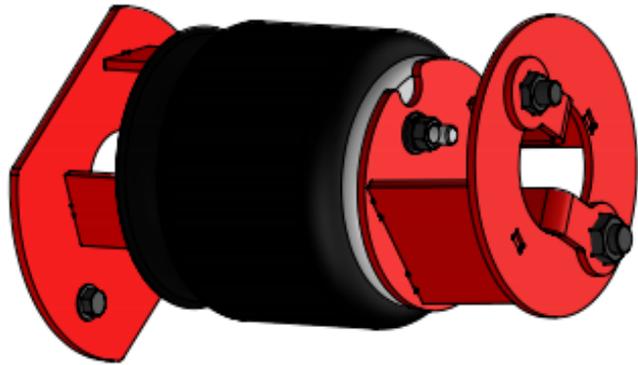
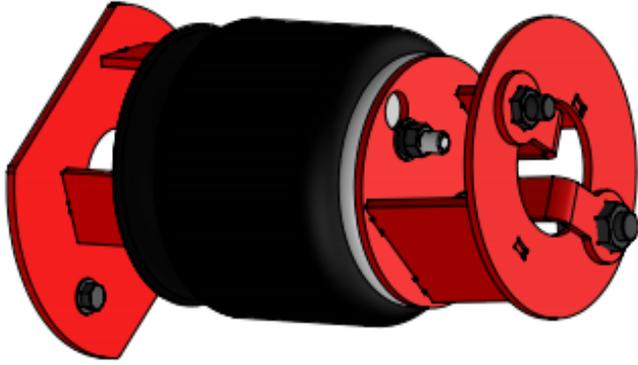


Measure 8 1/4" from the center of the bushing back

10. The sensor fastens to the sensor mount with the two 3/8 x 1" bolts. The sensor needs to be rotated all the way forward in the slot. The sensors have a "dead band" the last little bit of travel, so the sensor and sensor mount need to be adjusted so there is 1/8" of gap between the sensor arm and sensor stop when all the air is out of the bags. The linkage length between ball socket to ball socket will be around 2 1/4". This measurement can vary. Make sure the sensor is not in the dead band when the air is all the way dumped. Shorten the linkage if needed. Use the wiring instructions from the control system purchased to finish the installation.

The sensor has a dead band and does not send any signal from his position and counter clockwise until it hits the stop. Same thing goes for the other way (clockwise)







Commercial Product Warranty, Disclaimers and Warnings
Kelderman techs are available at 641-673-0468 M-F 7:00-4:00 CST

Kelderman Air Suspension Systems offer a 3 year/ 100,000 mile Limited Warranty, parts and labor, to the original retail purchaser who owns the vehicle on which the unit was installed, for defects in materials and workmanship related to the fabricated parts. Non fabricated parts such as air bags, air compressors, gauges, solenoid kits, and electronic or mechanical air ride control systems are covered for 1 year/ 50,000 miles for parts and labor. In cases where ride control systems manufactured by The Air Lift Company or Hadley Products are provided, the ride control warranty in this document will not apply. Instead, the warranty will be that of Hadley and Air Lift.

Kelderman Air Suspension Systems must be contacted for warranty authorization before any diagnostic work or repairs are performed. At that time, Kelderman will provide diagnostic assistance and authorization for the repairs if warrantable. Any unauthorized diagnostic work performed before contacting Kelderman will not be covered under the warranty program if deemed unreasonable.

Kelderman Air Suspension System does not warrant any product for finish, alterations, modifications and/or installation different from Kelderman's instructions. Alterations / modifications to the final product include, but are not limited to powder coating, plating, and/or welding which will void the warranty. Some damage may occur to the finish of the parts during shipping. This is considered normal and is not covered under warranty.

Kelderman tries to ensure that the suspension parts fit the vehicles they were designed for, but due to unknown vehicle manufacturer's production changes and/or inconsistencies by the vehicle manufacture, Kelderman cannot be responsible for 100% fitment.

Kelderman's obligation under this warranty is limited to the replacement of the defective parts only. Freight charges, incidental or consequential damages are expressly excluded from this warranty. Kelderman is not responsible for damages and/or warranty of other vehicle parts related or non-related to the installed Kelderman Air Suspension System. This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been subject to accident, negligence, alteration, abuse or misuse as determined by Kelderman.

Kelderman Air Suspension Systems are designed to be installed, and run at the recommended ride heights provided by Kelderman. All warranties will become void if Kelderman systems are run outside the recommended ride heights, or if the systems are combined/substituted with other suspension kits. Combination and/or substitution of other components may cause premature wear and inhibit the Kelderman Air Suspension from operating as designed, which may cause severe injury or death. Kelderman does not warrant parts not manufactured by Kelderman.

It is the installer and sellers reasonability to review all these warranties, warnings and disclaimers with the consumer prior to installation.

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