



D1203 Installation Instructions 2019-26 Dodge Ram 1500 4WD 1-5/8" Leveling System

Read and understand all instructions and warnings prior to installation of product and operation of vehicle.

Zone Offroad Products 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. Minimum tool requirements include the following: Assorted metric and standard wrenches, hammer, hydraulic floor jack and a set of jack stands. See the "Special Tools Required" section for additional tools needed to complete this installation properly and safely.

» PRODUCT SAFETY WARNING

Certain Zone Suspension Products are intended to improve off-road performance. Modifying your vehicle for off-road use may result in the vehicle handling differently than a factory equipped vehicle. Extreme care must be used to prevent loss of control or vehicle rollover. Failure to drive your modified vehicle safely may result in serious injury or death. Zone Offroad Products does not recommend the combined use of suspension lifts, body lifts, or other lifting devices.

You should never operate your modified vehicle under the influence of alcohol or drugs. Always drive your modified vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Always wear your seat belt.

» TECHNICAL SUPPORT

www.zoneoffroad.com may have additional information about this product including the latest instructions, videos, photos, etc.

Send an e-mail to tech-zone@ridefox.com detailing your issue for a quick response.

888.998.ZONE Call to speak directly with Zone tech support.

» PRE-INSTALLATION NOTES

1. Special literature required: OE Service Manual for model/year of vehicle. Refer to manual for proper disassembly/reassembly procedures of OE and related components.
2. Adhere to recommendations when replacement fasteners, retainers and keepers are called out in the OE manual.
3. Larger rim and tire combinations may increase leverage on suspension, steering, and related components. When selecting combinations larger than OE, consider the additional stress you could be inducing on the OE and related components.
4. Post suspension system vehicles may experience drive line vibrations. Angles may require tuning, slider on shaft may require replacement, shafts may need to be lengthened or trued, and U-joints may need to be replaced.
5. Secure and properly block vehicle prior to installation of Zone Offroad Products. Always wear safety glasses when using power tools.
6. If installation is to be performed without a hoist, Zone Offroad Products recommends rear alterations first.
7. Due to payload options and initial ride height variances, the amount of lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle attitude. Always measure the attitude prior to beginning installation.
8. Due to clearance to the upper ball joint, factory wheels / tires will only work with ZONE forged front UCAs.

Difficulty Level

Easy 1 **2** 3 4 5 difficult

Estimated installation: 3-4 hours

Special Tools Required

Ball Joint Separation Tool

Strut Compressor

Tire/Wheel Fitment

- 285/60R20 on OE wheel with 5-3/4" backspace.

- 295/65R18 with 4.5-5" backspacing. Trimming may be required.

- Up to 33 x 12.5 with 20 x 9 and 5 in. Backspace. Trimming may be required.

- Up to 33 x 12.5 with 18 x 9 and 5 in. Backspace. Trimming may be required.

IMPORTANT

It is required that ride height measurements be taken before and after installation. Measure from the **WHEEL AXLE CENTER** up to the **FENDER LIP** of the wheel opening. Do this for all 4 wheels. Record measurements below.**

BEFORE:

LF _____ RF _____ LR _____ RR _____

AFTER:

LF _____ RF _____ LR _____ RR _____



***These ride heights will be required if you have any ride height concerns after installation. Please be prepared to provide these to Technical Support.*

***Important* Verify you have all of the kit components before beginning installation.**

D1203 Preload Spacer - 1-5/8"

2 Front 1 -5/8" Lift Preload Spacer

» KIT FITMENT NOTES

1. Does not fit TRX or RHO models equipped with Bilstein Blackhawk shocks.
2. Does not fit factory air-ride equipped models.
3. Does not fit Rebel or Warlock models, and trim levels optioned with the Off-Road Package. These packages raise lift height approximately 1" over stock height from the OE.

INSTALLATION INSTRUCTIONS

» DISASSEMBLY

1. The factory service manual specifically states that striking the knuckle to loosen the ball joints or tie rod ends is prohibited. Striking the aluminum knuckle can damage it. A special puller tool #8677 (or equivalent ball joint tool) is recommended to be used to separate these components from the knuckle.
2. Park vehicle on clean flat and level surface. Block rear wheels for safety.
3. Raise front of vehicle and support frame rails with jack stands. Remove the front wheels
4. Disconnect the brake caliper bracket from steering knuckle, hang caliper out of the way, do not allow the caliper to hang from the brakeline. Remove the brake rotors for safety.
5. Disconnect the ABS wire connector at the inner fender well. Remove wire from retaining clips.
6. Disconnect the sway bar links from the lower control arm. Leave the links attached to the sway bar (Figure 1)



Figure 1

7. Remove the upper ball joint nut and use appropriate puller to disconnect the ball joint from the steering knuckle. Do NOT strike the aluminum knuckle with a hammer!
8. Disconnect the tie rod end from the steering knuckle using appropriate puller. Again do NOT strike the aluminum knuckle with a hammer!
9. Remove the lower strut bolt and nut. (Figure 2)

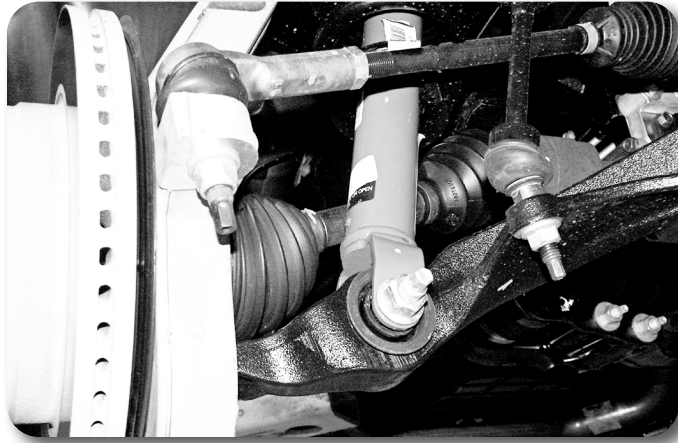


Figure 2

CAUTION:

DO NOT remove the center strut nut. Removal could cause injury or death.

10. Remove the 3 upper strut nuts (**DO NOT REMOVE THE CENTER NUT**) and remove strut assembly from vehicle.
11. Make alignment marks on the strut body, strut cap, and upper coil seat for ease of reassembly. (Figure 3A & B)

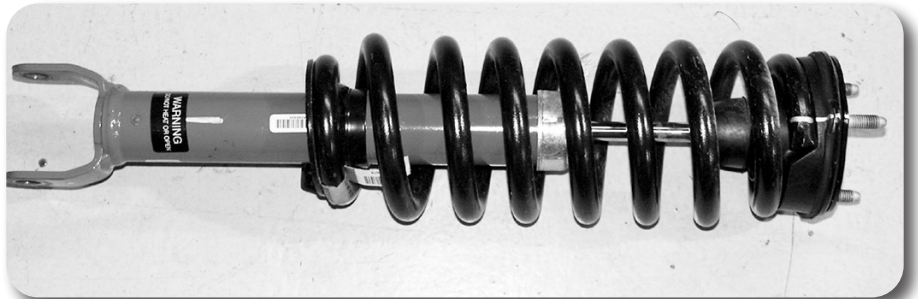


Figure 3A



Figure 3B

12. Using an appropriate strut compressor, compress the coil spring and remove the upper strut nut. Remove the strut, strut cap and upper coil seat from the coil spring. (Figure 4)

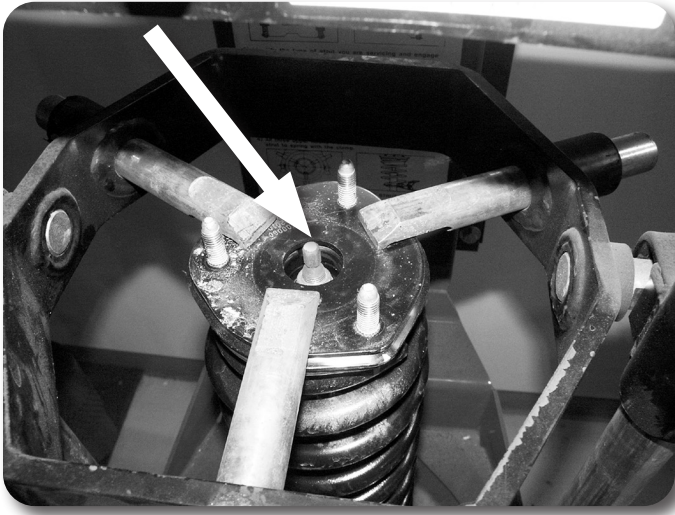


Figure 4

13. Install the new preload spacer, nesting the spacer against the strut cap with hex reliefs downwards.
14. Place the rubber isolator, shock shroud, and spring seat onto the strut cap in the same order. (Figure 5).

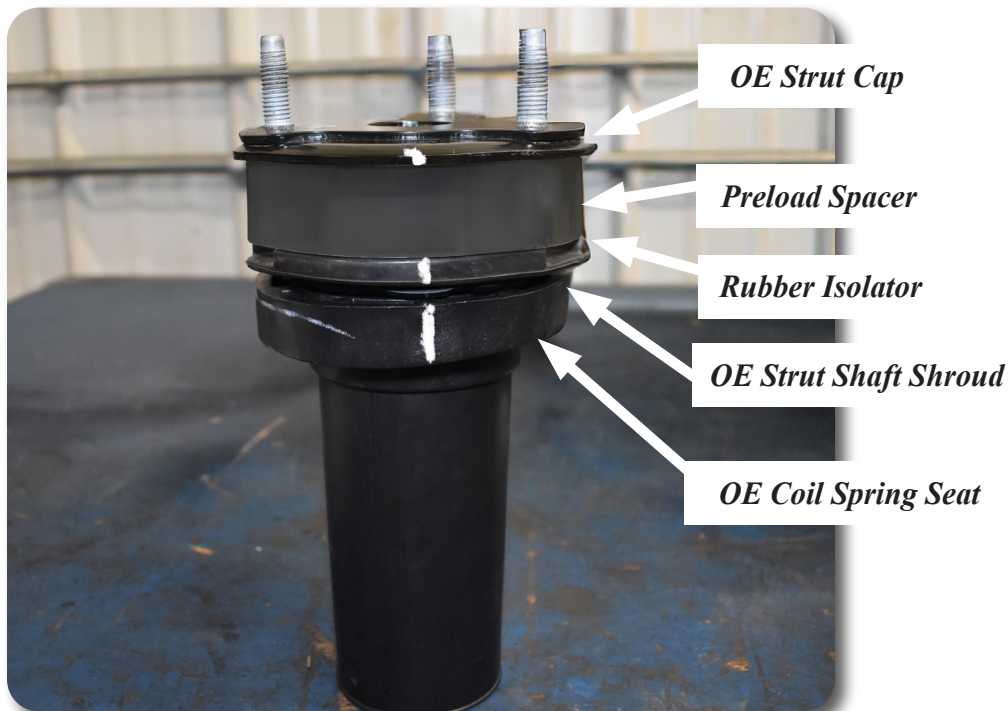


Figure 5

15. Reassemble the strut as it was taken apart aligning the index marks made earlier. Fasten the assembly with the OE strut rod nut. Torque nut to 26 ft-lbs.
16. Attach the strut assembly to the frame with OE nuts and washers. Leave hardware slightly loose.
17. Swing the lower control arm up. Attach the lower control arm to the strut with factory hardware. Tighten upper strut to frame mounting hardware to 46 ft-lbs.

Post-Installation Warnings

1. Check all fasteners for proper torque. Check to ensure for adequate clearance between all rotating, mobile, fixed, and heated members. Verify clearance between exhaust and brake lines, fuel lines, fuel tank, floor boards and wiring harness. Check steering gear for clearance. Test and inspect brake system.
2. Perform steering sweep to ensure front brake hoses have adequate slack and do not contact any rotating, mobile or heated members. Inspect rear brake hoses at full extension for adequate slack. Failure to perform hose check/ replacement may result in component failure.
3. Perform head light check and adjustment.
4. Re-torque all fasteners after 500 miles. Always inspect fasteners and components during routine servicing.

18. Attach steering knuckle to the factory upper control arm with OE hardware. Torque to 26 ft-lbs plus 180 degrees.
19. Reinstall brake rotors and calipers with factory hardware. Tighten brake rotor bolt to 7 ft-lbs, caliper adapter bolts to 59 ft-lbs plus an additional 55 degrees.
20. Attach tie rod to steering knuckle, tighten to 41 ft-lbs then an additional 180 degrees.
21. Reconnect the ABS wire if disconnected from the steering knuckle.
22. Reattach the sway bar link to the lower control arm. For '19-20 model year trucks, torque hardware to 88 ft-lbs. For '21+ model years, torque to 81 ft-lbs.

» FINAL INSTALLATION STEPS

23. Reinstall wheels and lower vehicle to the ground. Tighten lug nuts to factory specifications.
24. Lower vehicle to the ground. Torque lower front strut mounting bolt to 124 ft-lbs. Verify torque of the front upper control arm frame mounting hardware to 128 ft-lbs.
25. Re-check all hardware for proper torque, check again after 500 miles and at regularly scheduled maintenance intervals.
26. Adjust headlights.
27. A front end alignment must be performed.

Component	Torque (FT-LBS)
<i>Stabilizer Bar Link Lower Nut</i>	<i>88 ft-lbs</i>
<i>Stabilizer Bar Link Lower Nut, '21+ model year</i>	<i>81 ft-lbs</i>
<i>Upper Ball Joint Nut</i>	<i>26 ft-lbs + 180 degrees</i>
<i>Tie rod end at knuckle</i>	<i>41 ft-lbs + 180 degrees</i>
<i>Strut to frame mounting bolts</i>	<i>46 ft-lbs</i>
<i>Brake Rotor Bolt</i>	<i>7 ft-lbs</i>
<i>Brake Caliper adapter bolts</i>	<i>59 ft-lbs +55 degrees</i>
<i>Strut Rod Nut</i>	<i>26 ft-lbs</i>
<i>Upper Control Arm Bolts</i>	<i>128 ft-lbs</i>
<i>Shock Absorber Lower Nut</i>	<i>124 ft-lbs</i>