



2" LEVELING KIT

Assembly, Installation, Operation,
and Maintenance Instructions

PART NUMBER	D20LL7
INSTALL TIME	2-3 HOURS

2009-2022 RAM 1500 4WD & 2019-2022 RAM 1500 2WD

DEALER / INSTALLER	Provide a copy of these instructions to the end user of this product. These instructions provide important operating and safety information for proper usage of this product. Demonstrate the proper use of the product with the end user. Have the end user demonstrate that they understand the proper use of the product.
END USER	Read and follow all instructions included in this manual. Ask your Dealer / Installer for assistance if you do not understand the proper use of the product. Never remove any decals from the product. Failure to follow these instructions can result in injury or death.

TOOLS & EQUIPMENT REQUIRED
FLOOR JACK
JACK STANDS
WHEEL CHOCKS
LARGE HAMMER
ASSORTED METRIC & S.A.E. WRENCH SET
3/8" DRIVE RATCHET (MIN.)
ASSORTED METRIC & S.A.E. SOCKETS
TORQUE WRENCH (CAPABLE OF 150 FT-LBS.)
SOCKET EXTENSIONS
PRY BAR

PACKAGE CONTENTS	QTY
ALUMINUM STRUT SPACER	2
3/8"-16 X 1-1/4" GRADE 8 HEX BOLT-ZINC PLATED	6
3/8" GRADE 8 FLAT WASHER-ZINC PLATED	12
3/8" GRADE 8 LOCK WASHER-ZINC PLATED	6
3/8"-16 C-LOCK NUT-ZINC COATED	6
THREAD LOCKING COMPOUND-2 mL	1
DRIVER WARNING LABEL	1
INSTALL INSTRUCTIONS	1



WARNINGS/SAFETY PRECAUTIONS



For technical assistance call: 1-866-638-4870 or email: support@TrailFX.com

READ THIS BEFORE YOU BEGIN INSTALLATION:

- Check all parts to the parts list above before beginning installation. If any parts are missing contact TrailFX tech and warranty team at 1-866-638-4870 and a replacement part will be sent to you immediately.
- Read all instructions thoroughly from start to finish before beginning the installation. If these instructions are not properly followed, severe frame, driveline and/or suspension damage may occur.
- Check your local city and state laws prior to the installation of this system for legality. Do not install if not legal in your area.
- Prior to the installation of this suspension system, perform a front-end alignment. Do not install this system if the vehicle alignment is not within factory specifications. Check for frame and suspension damage prior to installation.
- Use the provided thread locking compound on all hardware.
- **WARNING:** Installation of this system will alter the center of gravity of the vehicle and may increase rollover as compared to stock.
- Vehicles that run oversized tires should check ball joints, tie rod ends, pitman arm and idler arm every 2500 - 5000 miles for wear and replace as needed.

FOOTNOTES:

- This leveling kit will not work with factory air ride vehicles.
- Some models of trucks may not sit level after installation due to added accessories such as bumpers, toolboxes, cargo management, tow packages, etc.

Prior to installing this kit, with the vehicle on level ground, measure the height of your vehicle. This measurement can be recorded from the center of the wheel, straight up to the top of the inner fender lip. Record the measurements below.

LF: _____

RF: _____

LR: _____

RR: _____

INSTRUCTIONS - FRONT SUSPENSION

1. Disconnect the negative terminal on the battery. Jack up the front end of the truck and support the frame rails with jack stands. It is recommended to use wheel chocks for safety. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE!** Remove the front tires.
2. Remove bolt from the brake line bracket, save for re-installation. **(IMAGE 1)**.
3. Remove the nut from the upper sway bar end link. Save for reinstallation. **(IMAGE 2)**.
4. Remove the tie rod end from the spindle. **(IMAGE 3)**.
5. Loosen the upper control arm ball joint nut. **Note: Leave the nut attached.** Using a large hammer carefully strike the spindle at the ball joint to dislodge the control arm from the spindle. **(IMAGE 4)**.
6. Remove the nut from the lower strut/control arm bolt. **(IMAGE 5)**.
7. Remove the (3) upper strut nuts from the strut tower bracket. Save for re-installation. **(IMAGE 6)**.

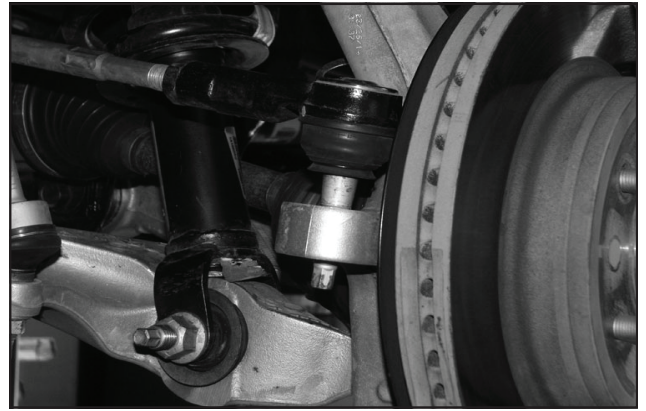


IMAGE 3 - STEP 4

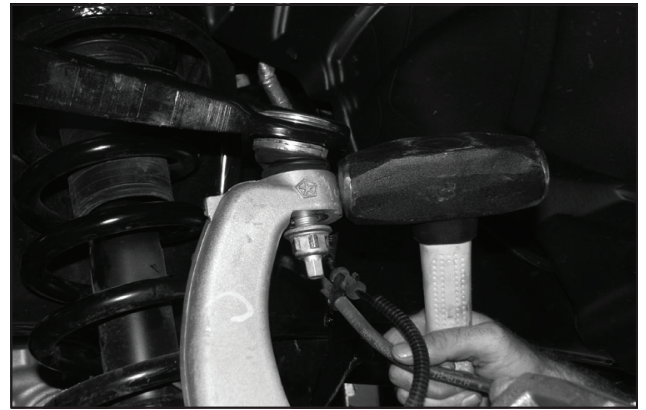


IMAGE 4 - STEP 5

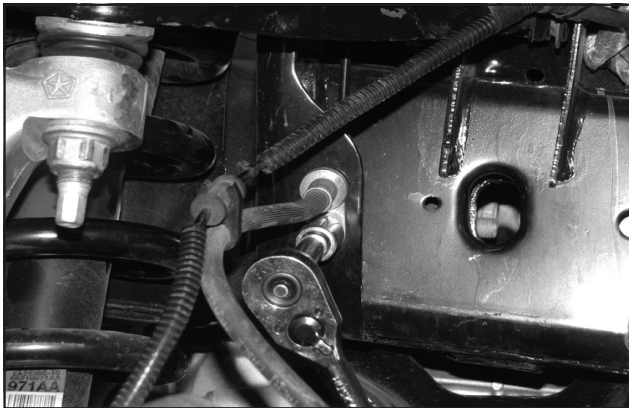


IMAGE 1 - STEP 2

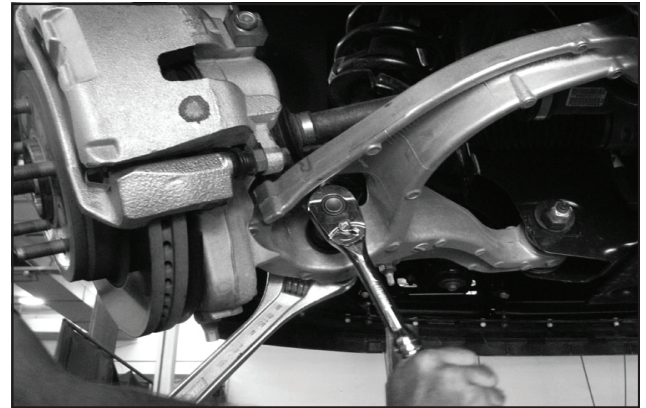


IMAGE 5 - STEP 6

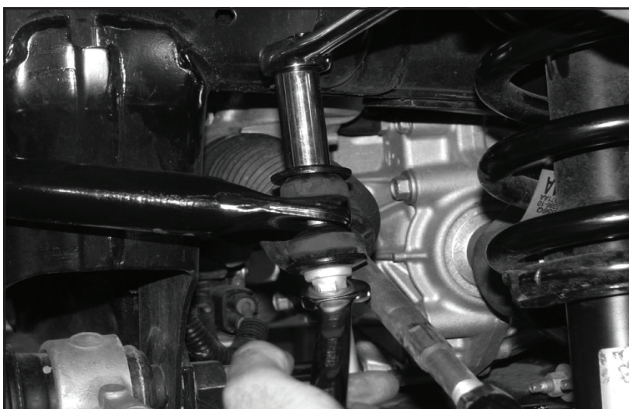


IMAGE 2 - STEP 3



IMAGE 6 - STEP 7

INSTRUCTIONS (CONTINUED)

8. Remove the lower strut bolt and upper control arm ball joint nut. Then, remove the strut assembly from the vehicle. **(IMAGE 7-9).**

9. Locate the supplied 2" strut spacer, 3/8"-16 x 1-1/4" bolts, washers, and nuts. Apply the thread locking compound to the bolt and install the bolts, washers, and lock washers into the 2" strut spacer. Torque to 52 ft-lbs. **(IMAGE 10).**

10. Install the 2" Strut Spacer onto the factory strut assembly using the factory nuts and supplied thread locking compound. Torque to 52 ft-lbs. **(IMAGE 11).**

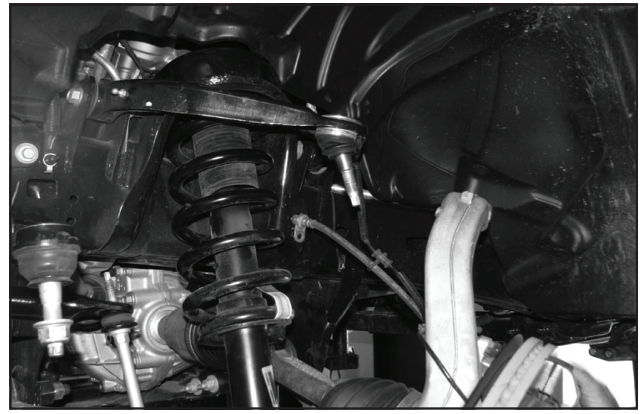


IMAGE 8 - STEP 8

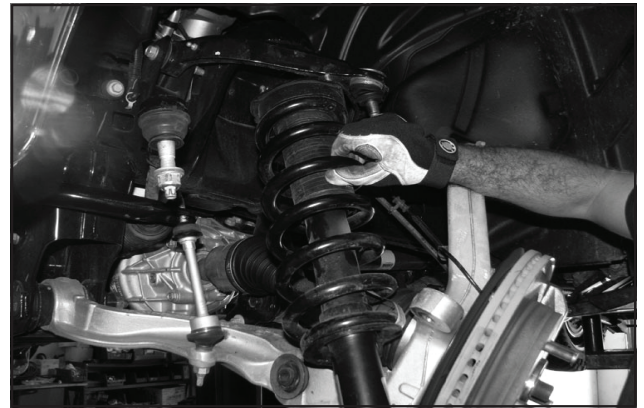


IMAGE 9 - STEP 8

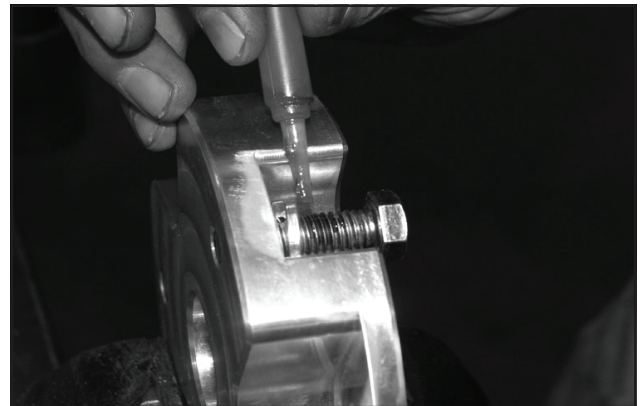


IMAGE 10 - STEP 9



IMAGE 7 - STEP 8



IMAGE 11 - STEP 10

INSTRUCTIONS (CONTINUED)

11. Re-install the strut assembly into the vehicle.
NOTE: The assembly must be installed 180 degrees from its original orientation. Install the supplied 3/8" nuts and washers on the top strut tower. Torque to 52 ft-lbs. Then, install the lower strut bolt. Torque to 132 ft-lbs. **(IMAGE 12-14).**

12. Using a pry bar, pry down on the upper control arm and install the upper ball joint nut. Torque to 117 ft-lbs. **(IMAGE 15).**

13. Install the tie rod into the spindle. Torque to 117 ft-lbs. **(IMAGE 16).**

14. Re-install the brake line into the bracket with the factory bolt. Torque to 52 ft-lbs. **(IMAGE 17).**

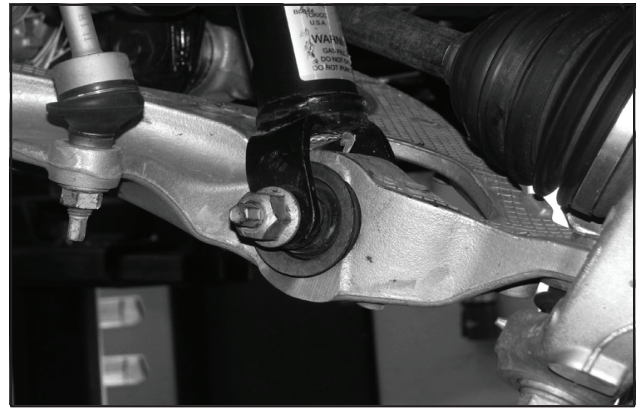


IMAGE 14 - STEP 11

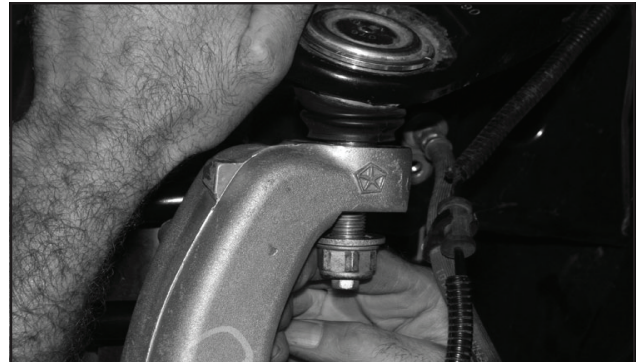


IMAGE 15 - STEP 12

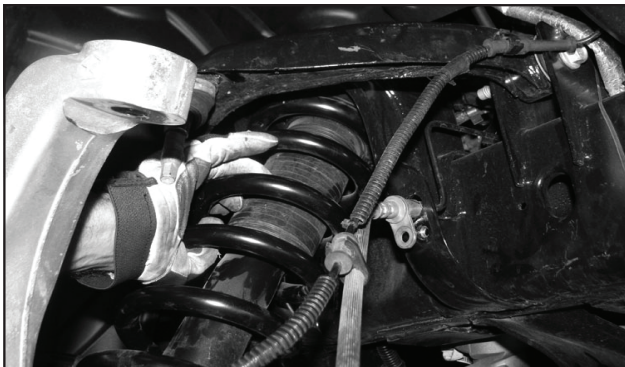


IMAGE 12 - STEP 11

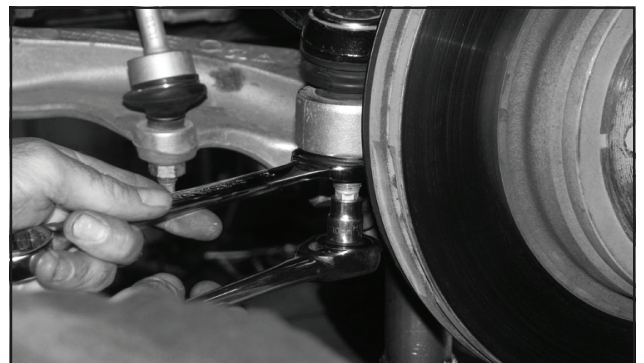


IMAGE 16 - STEP 13



IMAGE 13 - STEP 11

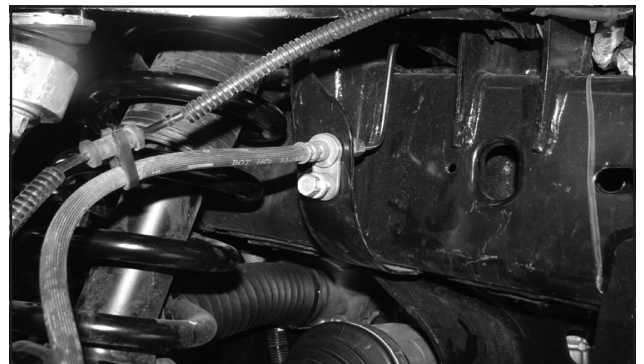


IMAGE 17 - STEP 14

INSTRUCTIONS (CONTINUED)

15. NOTE: When installing the sway bar to the end link, it may be necessary to leave loose until both sides are complete. Torque to 58 ft-lbs. **(IMAGE 18).**

16. Install tires and wheels and torque lug nuts to wheel manufacturer's specifications. Turn front tires left to right and check for appropriate tire clearance.

Note: Some oversized tires may require trimming of the front bumper & valance.

17. Check front end alignment and set to factory specifications.

18. Readjust the headlights if needed.

19. Recheck all bolts for proper torque.

20. Recheck brake hoses, ABS wires and suspension parts for proper tire clearance while turning tires fully left to right.

21. Install driver warning decal in the driver's side door jamb.

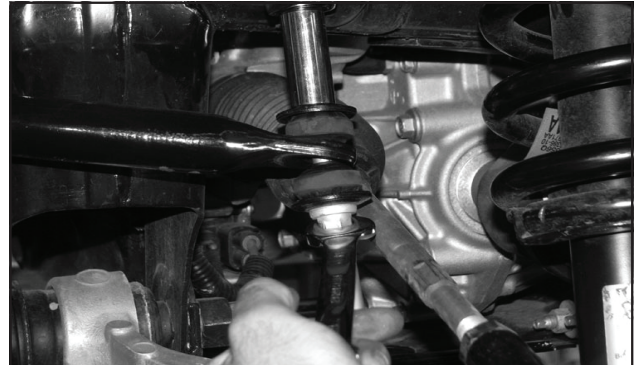


IMAGE 18 - STEP 15

Vehicles with oversized tires should check ball joints, tie rod ends and all steering components every 2500-5000 miles for wear and replace as required.

RETORQUE ALL NUTS, BOLTS AND LUGS AFTER 50 MILES AND THEREAFTER UNTIL FASTENERS RETAIN TORQUE SETTING. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY/DEATH.

For technical assistance call: 1-866-638-4870

PRODUCT CARE/MAINTENANCE

1. Make sure to regularly check the vehicle suspension and steering components for any signs of wear or damage. It is important to regularly check components for any signs of wear or damage like ball joints, tie rods, links, and bushings. Replace any worn or damaged components you find on these inspections.

2. Inspect tires. Lifting your truck can put additional stress on your tires, so it is important to regularly check the tire pressure, tread depth and replace the tires when necessary.

3. Make sure to have your vehicle aligned post install and regularly check as making changes to the suspension will affect the alignment, which can lead to uneven tire wear and handling issues.

CONTACT US

WEBSITE: TrailFX.com

PHONE: 1-866-638-4870

EMAIL: support@trailfx.com

PRODUCT WARRANTY

Limited-Lifetime Warranty:

TrailFX and Keystone Automotive Operations Inc. make no guarantees or warranties for products not manufactured by Keystone Automotive Operations Inc. Such products are covered solely under any applicable warranty of the manufacturer. It is always recommended that the operating instructions and warranty instructions provided by the manufacturer are followed.

The Limited Lifetime Warranty excludes the following TrailFX items; bushings, bump stops, ball joints, tie rod ends, limiting straps, cross shafts, heim joints and driveshafts. These parts are subject to wear and are not considered defective when worn. They are warranted for 60 days from the date of purchase for defects in workmanship.

Keystone Automotive Operations Inc. warrants its products to be free from manufacturing and material defects to the original purchaser for the length of warranty stated above from the date of retail purchase. If any products are found to have a manufacturing or material defect, the product will be replaced or repaired at the option of TrailFX and Keystone Automotive Operations Inc. with proof of purchase by the original purchaser. The original purchaser shall pay all transportation and shipping costs associated with the return of the defective product and the defective product shall become the property of Keystone Automotive Operations Inc.

This Warranty applies to Keystone Automotive Operations Inc. products used for individual and recreational purposes. Commercial usage of the Keystone Automotive Operations Inc. products limits the warranty to 90-days from date of purchase.

This Warranty applies only to Keystone Automotive Operations Inc. products which are found to be defective in manufacturing or material. This warranty does not apply to normal wear and tear of the finish placed on Keystone Automotive Operations Inc. products.

TrailFX and Keystone Automotive Operations Inc. are not responsible for any labor costs incurred for removal or replacement of the defective product.

TrailFX and Keystone Automotive Operations Inc. are not responsible for repair or replacement of any product under the limited warranty where the product was improperly installed, misapplied, altered, abused, neglected, overloaded, misused, or damaged as a result of an accident, including any use of the product not in accordance with all products operating and safety instructions.

Without limiting the generality of the foregoing, TrailFX and Keystone Automotive Operations Inc. shall under no circumstances be liable for any incidental or consequential loss or damage whatsoever arising out of, or in any way relating to any such breach of warranty or claimed defect in, or non-performance of the products. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.

This limited warranty gives you specific legal rights, and you may also have other rights that vary from state to state.