



2.0" LEVELING KIT

Assembly, Installation, Operation,
and Maintenance Instructions

PART NUMBER	F20LL3
INSTALL TIME	2-3 HOURS

2009-2014 FORD F150 4WD & 2004-2008 FORD F150 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
STRUT SPACER	2
3/8-24 X 1-1/4" HEX BOLT GRADE 8 ZINC PLATED	6
3/8" GRADE 8 FLAT WASHER-ZINC PLATED	6
3/8" GRADE 8 LOCK WASHER-ZINC PLATED	6
10MM-1.5 C-LOCK NUT-ZINC PLATED	6
10MM FLAT WASHER-ZINC PLATED	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. Place the vehicle on a level working area. Block the rear tires. Working from both sides of the vehicle, jack up the vehicle and support the frame rails with jack stands. **NEVER WORK UNDER AN UNSUPPORTED VEHICLE.** Remove both front tires.

2. Working from the driver side, support the bottom of the control arm with a jack.

3. Loosen the upper ball joint nut and strike the knuckle with a hammer until it comes loose from the control arm. Save all hardware. Use care not to hit the threads. **(IMAGE 1).**

4. Loosen the tie rod nut and strike the knuckle with a hammer until it comes loose. Save all hardware. Use care not to hit the threads. **(IMAGE 2).**

5. Disconnect the factory sway bar end link. Save all hardware. **(IMAGE 3).**

6. Remove the lower coilover hardware and save. **(IMAGE 4) for 2004-13 or (IMAGE 5 for 2014).**

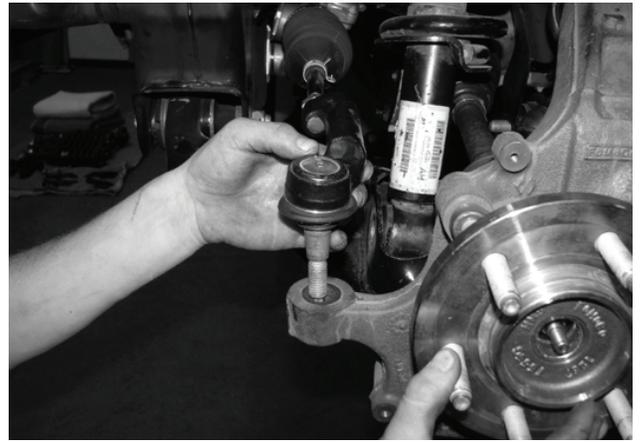


IMAGE 2 - STEP 4



IMAGE 3 - STEP 5



IMAGE 4 - STEP 6

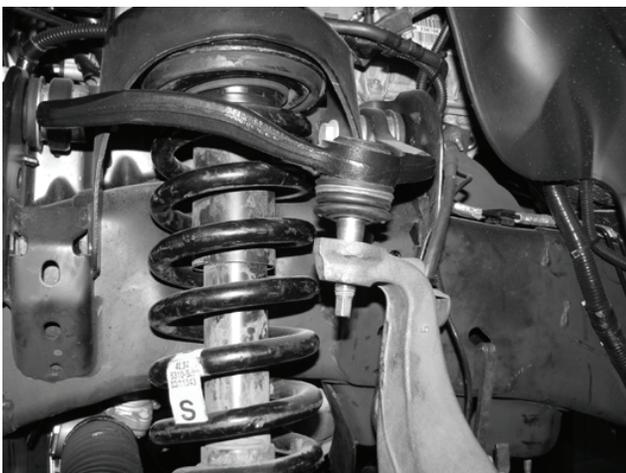


IMAGE 1 - STEP 3



IMAGE 5 - STEP 6

INSTRUCTIONS (CONTINUED)

7. Disconnect the stability control plug. Remove the three nuts attaching the coilver to the coilover mount, discard hardware. Remove the coilover from the vehicle. **(IMAGE 6).**

8. Repeat steps 2-7 on the passenger side of the vehicle.

9. Locate the strut spacer and the supplied 10mm nuts and flat washers. Attach the strut spacer to the top of the driver side factory coilover and torque to 30 ft.-lbs. **(DO NOT USE AN IMPACT ON THE FACTORY STUDS).** Note: The factory studs should not protrude past the installed spacer. If they do, trim or grind down the end of the stud so that its flush with the new spacer. **(IMAGE 7).**

10. Using the supplied 3/8" x 1 1/4" bolts, flat washers, split washers and thread locking compound, attach the upper portion of the coilover into the driver side factory mount. Torque to 30 ft.-lbs. **(IMAGE 8).**

11. Attach the bottom part of the coilover to the driver side lower control arm with the factory hardware. It may be necessary to align the lower shock eyelet to fit into the lower control arm. This may be accomplished by rotating the lower eyelet with an alignment bar. Torque bolts to 30 ft.-lbs.

12. Attach the upper ball joint to the factory knuckle using the factory nut. Torque to 60 ft.-lbs. Now reattach the tie rod to the steering knuckle using the factory nut. Torque to 50 ft.-lbs.

13. Attach the factory swaybar end link with the factory hardware and tighten just until the bushings start to bulge. Reconnect the stability control plug.

14. Repeat steps 9-13 on passenger side of vehicle.

15. Reinstall wheels and tires and torque to manufacturer's specifications. Turn wheels full in both directions to make sure there is proper clearance for brake lines and stability control wiring.

16. Check the front-end alignment and set to the factory specifications. Readjust headlights.

17. Re-check all bolts after 500 miles.

18. Install Driver Warning Decal.

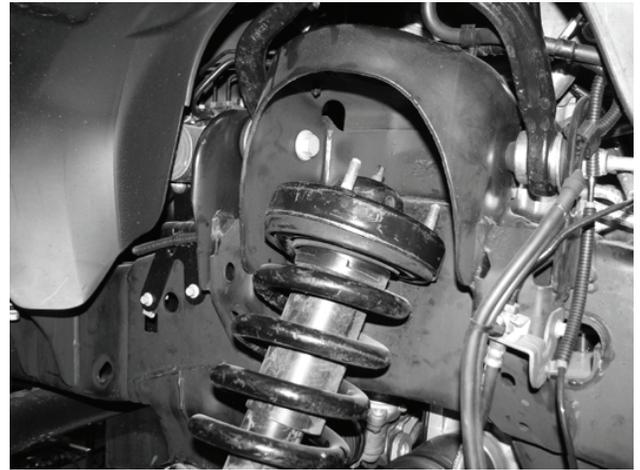


IMAGE 6 - STEP 7



IMAGE 7 - STEP 9



IMAGE 8 - STEP 10

**RETORQUE ALL NUTS, BOLTS AND LUGS
AFTER 50 MILES AND PERIODICALLY
THEREAFTER.**

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.