



CS-FLVL-BC20-17: 2.5" Ford Backcountry 2.0 System

Fitment
2017+ F250/350 4x4

Carli Suspension, Inc.
422 Jenks Circle
Corona, CA 92880
888-992-2754

Note

Please review the product instructions prior to attempting installation to ensure installer is equipped with all tools and capabilities necessary to complete the product installation. We recommend thoroughly reading the instructions at least twice prior to attempting installation.

Before beginning disassembly of the vehicle, check the "What's Included" section of the instructions to ensure you've received all parts necessary to complete installation. Further, verify that the parts received are PROPER TO YOUR application (year range, motor, etc.) to avoid potential down-time in correcting potential discrepancies. Any discrepancies will be handled by Carli Suspension and the correcting products will be shipped UPS Ground.

Lifetime Product Warranty

Carli Suspension provides a limited lifetime product warranty against defects in workmanship and materials from date of purchase to the original purchaser for all products produced by Carli Suspension. Parts not manufactured by, but made to Carli Suspension's specifications by third party manufacturers will carry a warranty through their respective manufacturer. (i.e. King Shocks, Bilstein Shocks, Fox Shocks). Deaver Leaf Spring's warranty will be processed by Carli Suspension.

Proof of purchase (from the original purchaser only) will be required to process any warranty claims. Carli Suspension products must be purchased for the listed Retail Price reflected by the price listed on the Carli Suspension Website at the time of purchase. Carli Suspension reserves the right to refuse warranty claims made by any customer refusing or unable to present proof of purchase, or presenting proof of purchase reflecting a price lower than Carli Suspension's Retail Price at the time the item was purchased.

Carli Suspension's Limited Lifetime Warranty excludes the following parts which are subject to wear: Track Bar Bushings, Track Bar Heim Joints, Limit Straps, Control Arm Bushings, Radius Arm Bushings, Shock Bushings, Sway Bar End Link Heim Joints, Shock Seals, Shock Bearings, and Corrosion on Shock Shafts or Bodies. These items will be warranted for a period of 60 days from the date of purchase only if determined to be installed properly signifying manufacturing defect. Carli Suspension cannot warrant a product's cosmetic finish due to the varying extreme elements that may be encountered.

Any alterations, modifications, or improper installation, of the product will void this warranty. Products should be inspected for defect upon receipt and approved before installation. Any defect in NEW product will be warranted if returned before installation in its original packaging. Carli Suspension's obligation under this warranty is limited to the repair or replacement of the defective product only. All costs of removal, installation or reinstallation, freight charges, incidental or consequential damage are expressly excluded from this warranty.

Carli Suspension is not responsible for damages and/or warranty of other vehicle parts related or non-related to the installed Carli Suspension product. This warranty shall not apply to any product that has been subjected to accident, negligence, alteration, abuse or misuse as determined by Carli Suspension. Carli Suspension reserves the right to refuse warranty claims if produced parts are combined and/or substituted with other aftermarket suspension products. Combination and/or substitution of other aftermarket suspension components may cause premature wear and/or product failure. Carli Suspension reserves the right to change/alter product without obligation to update any previously purchased products.

Parts Checklist

- (Qty. 1) - CS-FLC-05 - Coil Springs
- (Qty. 1) - CS-FBC20SPKG-LVL-05 - Backcountry 2.0 Shock Package with Reservoir Mounts
- (Qty. 1) - CS-FCASTERSHIM-2.5 - 2° Caster Shims
- (Qty. 1) - CS-FBDF-2.5-17 - High Clearance Bump Stop Drops, Front
- (Qty. 1) - CS-FSBD-17 - Sway Bar Drop Bracket
- (Qty. 1) - CS-FPRB-LVL-17 - Adjustable Track Bar
- (Qty. 1) - CS-FORDBBL-17-F - Front Brake Lines



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Installation Instructions

1. Follow instructions in "CS-FLRC-05 - 2.5 Linear Rate Coil Spring" Box
2. Install Front Shocks:

A. **Backcountry 2.0:** These shocks are bushing upper & lower. Install the lower rod end into the lower shock mount and insert the factory bolt hand tight.

B. Disassemble the upper shock bushing (remove the nut, upper bushing retainer and upper-half of the bushing leaving the lower half of the bushing on the stem top). (Figure - 1)

C. Use bodyweight to compress the shock and guide the stem-top into the factory shock mount.

D. Install the upper bushing half, bushing retainer, and nut. Tighten to preload bushing but do not overtighten!

E. Torque lower shock bolt to 100 lb/ft.

F. Secure the reservoir to the reservoir mount previously installed between the coil bucket and the upper spring isolator. (Figure - 2)

4. Install the provided, "CS-FORDBBL-17-F - Extended Front Brake Lines".
5. Follow instructions in "CS-FSBD-17 - Sway Bar Drop Bracket" Box
6. Install the provided 2° Caster Shims

A. Work on one side at a time. Remove the cotter pin from the upper ball joint stud, then, remove the upper ball joint nut that retains the factory alignment shim.

B. Using a pry-bar, work around the upper edge of the shim until it pops loose (Southern California version... if corroded, this may require cycling penetrating lubricant and heat).

C. Once removed, clean out the knuckle bore as much as possible and install the caster-correcting spacer on the upper ball joint stud. The gap on the thin part of the spacer will face **DIRECTLY REAR** (Figure - 5)! This puts the fat part at the front, essentially rolling the axle back to achieve additional caster.

D. Once installed, thread the ball joint nut back onto the stud, this step will finish pressing in the shim. While holding the shim's orientation with a wrench, torque the upper ball joint nut to 69ft.lbs.

E. Check your work and ensure the shim did not rotate while torquing the ball joint. Once confirmed, install cotter pin and wheel/tire.

F. Repeat on other side.

G. Set the truck on the ground and ensure the wheels are straight and the truck is at ride height, then adjust the drag link to center the steering wheel.

7. Follow instructions in "CS-FPRB-17 - 2017 Adjustable Track Bar" Box.
8. **If optioned with a Progressive Add-a-Pack or Full Spring Pack:** Follow instructions in "CS-FPAP-17 - 2017 Ford Add-a-Pack" Box or "CS-FFSP-LVL-17 - 2017 Ford Progressive Spring Pack" followed by those in "CS-FBDR-17 - 2017 Ford Rear Bump Drop" Box
9. Remove the factory rear shocks if not already removed from Add-a-Pack or Spring Pack Installation.

10. Install the proper bushing/crush sleeve into the shocks (see Note to the right).

11. Install the Fox 2.0" Piggyback shocks. The Piggyback reservoir should be mounted to the shock body with the included billet clamps. Mount the shocks body up, shaft down with the reservoirs facing away from the axle (driver's resi to the rear, passenger facing front).

12. Slide the upper bushing over the factory stud and torque the factory nut on the factory upper shock mount to 35lb/ft.

13. Install the bottom of the shock into the factory axle-mount and secure with the factory bolt. Torque to 100lb/ft.

14. If the alignment was in spec before the lift was installed, the cams were installed properly, and the steering wheel was centered, there is no alignment needed. If unsure, take the truck for a full alignment.

15. Retorque all fasteners after 500 miles.

Figure - 1



Figure - 2

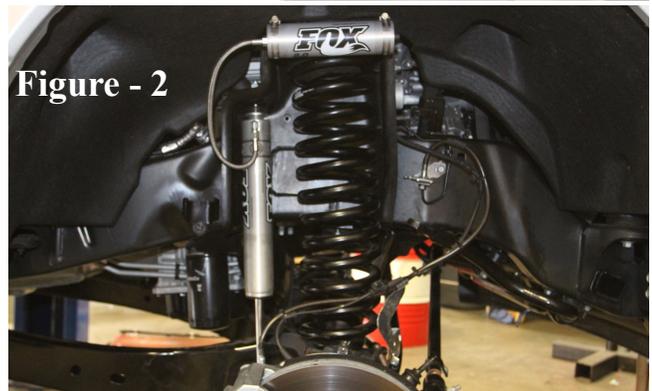
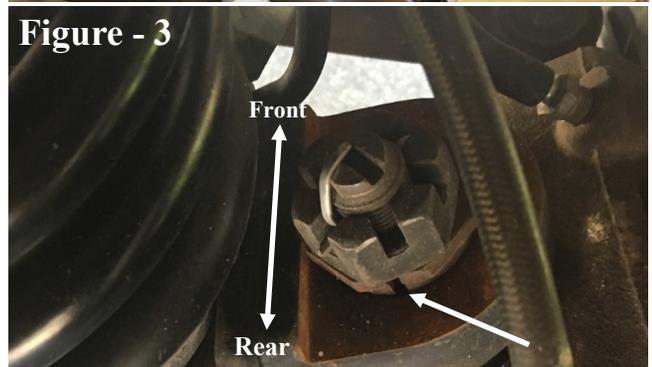


Figure - 3



NOTE:

The rear shock will work for 2005-16 or 17+. Neither application uses a crush sleeve in the upper bushing (slide the bushing directly over the factory stud). The 05-16 use the bushing with the 12mm internal diameter and the 17+ with the 14mm internal diameter.

