



Ford Stainless, Braided Extended Brake Lines

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

2.5" Lift - CS-FORDBBL-17-F

(Qty. 2) - Side Specific, Front, Brake Lines, Copper Washers and Clips

4.5" Lift - CS-FORDBBL-45-17

(Qty. 2) - Side Specific Front Brake Lines, Copper Washers and Clips

(Qty. 2) - Rear Brake Lines, Threaded Adapters, Copper Washers and Clips

NOTES

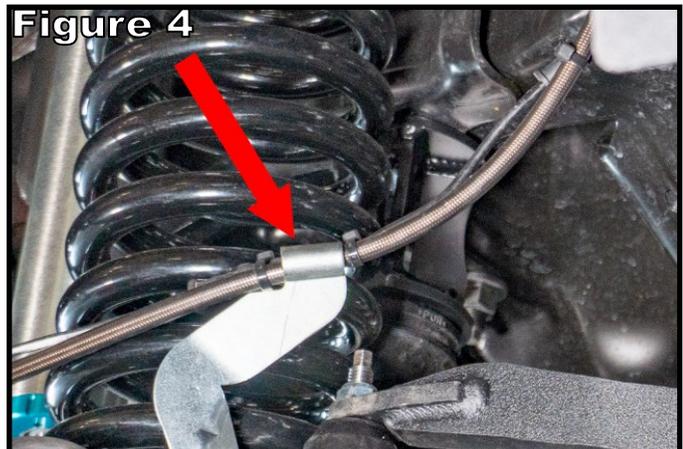
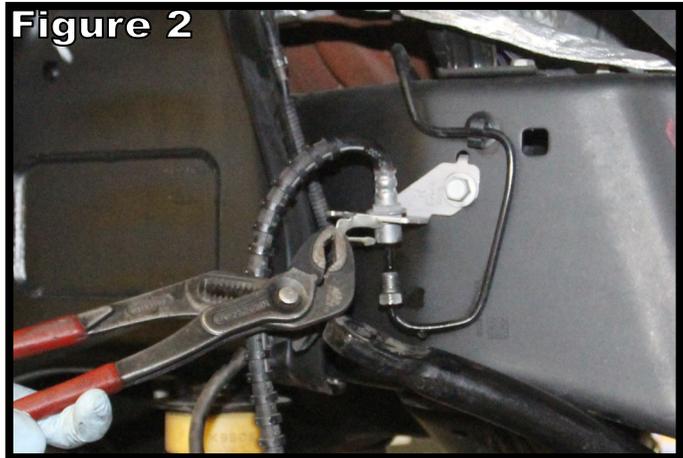
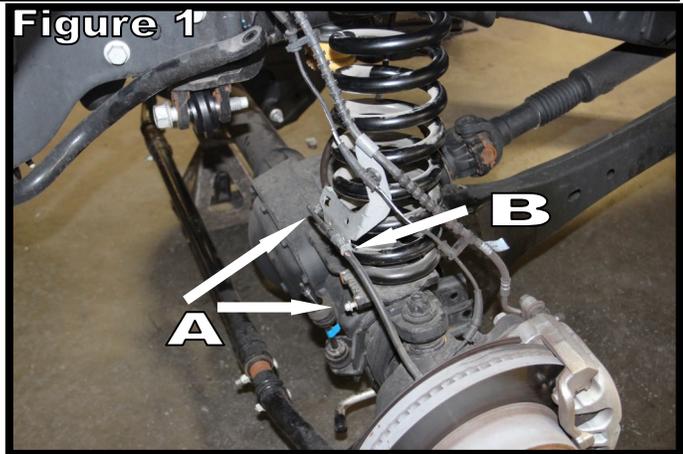
We recommend brake lines be installed by a trained professional as the flared fittings are not provided with torque specs and bleeding procedures are not outlined; careful attention to both procedures are VITAL to proper brake operation. DO NOT attempt installation if you're not comfortable bleeding brakes or tightening the brake line fittings.



Fitment
2017+ F250/350 4x4

Front Brake Line Instructions

1. **FIGURE 1** — Separate the ABS lines from the factory brake lines by pulling apart (including the press fitting on the brake line bracket) and, using a 10mm socket, remove the bolt securing the factory brake line bracket to the front of the coil bucket (A).
2. Disconnect the vacuum line from the factory brake line bracket. (B)
3. Using a 15mm socket, remove the banjo bolt at the caliper
4. Place a copper washer on each side of the Carli brake line and secure the line to the caliper ensuring the Carli line follows factory routing of the line it replaced.
5. With the caliper end secured, use a 13mm line wrench to loosen the hardline fitting at the frame.
6. **FIGURE 2** — Once unthreaded, pull the factory clip that retains the factory line to the bracket and remove the factory brake line.
7. Install the Carli line (ensuring it's not twisted) into the factory bracket and begin threading the factory hardline fitting into the Carli line. A set of adjustable channel-lock pliers will hold the Carli brake line in place while the hard line is secured to it.
8. **FIGURE 3** — While tightening the brake line, ensure the brake line is indexed to loop forward against the frame rail, NOT looping out toward the tire!
9. With the brake lines properly indexed against the frame, insert the provided clip to secure the Carli Brake Line to the factory bracket, locking in its position.
10. **FIGURE 4** — Secure the brake line bracket to the front axle and reconnect the vacuum lines. Pull the brake line through the slip joint (key the truck on — ignition power only) and cycle the steering ensuring as LITTLE brake line as possible is left between this bracket and the caliper. Again, just tight enough that the steering turns lock to lock with NO tire contact on the brake lines & no brake line bracket contact on the coil springs (coil spring contact can be adjusted later when the Carli Coils are installed). Once confirmed, use a pair of pliers to “crimp” the slip-joint on the brake line bracket to ensure no movement. **If you skip this step, the brake lines will slip through the bracket and into the tire.**
11. Secure the ABS lines to the new brake lines with zip-ties, bleed the brakes (if you haven't, already) and double-check all new front line routing for clearance.
12. Route and Zip-Tie Front vacuum lines, ABS lines and differential vent.
13. If you're installing a 2.5" System with front brake lines only, bleed the brakes and move onto the next step in the kit instruction. For 4.5" Kits with front and rear brake lines, do not bleed the brakes, yet. Continue to the next page in this instruction.





Fitment
2017+ F250/350 4x4

Rear Brake Line Instructions

1. **2017 ONLY**- Clamp brake line into a bench vise and insert the male end of the provided thread-adapter into the upper end of the brake line and tighten using a 9/16" wrench. **2018+ Will not require this adapter.**



Figure 5

2. FIGURE 5 - Separate the ABS lines & Axle Vent Tube from the factory brake lines by pulling apart.

3. Using a 13mm line wrench, undo the hard line fitting from the factory brake lines on the upper bracket and separate. We recommend doing these one at a time and working quickly to minimize loss of brake fluid.

4. Pull the clips holding the factory brake lines to the bracket and let the factory lines hang (for now) from the lower mount.

5. Insert Carli Brake lines into the factory upper brackets and hold them with an adjustable channel-lock plier while using the 13mm line wrench to secure the factory hard line fitting to the Carli line (female end of the adapter on the 2017).

6. Once tight, move onto the lower (the clips will be inserted to fix the brake line once they're indexed)

7. Using the 13mm Line wrench, remove the hardline fittings from the factory brake lines on the axle bracket and separate.

8. Remove the factory clips, then remove and discard the factory brake lines.

9. The Carli Brakelines have 2 flat-spots/indexes to ensure they fit the 2017 and 2018+ axle brackets (Figure - 6). Insert Carli lines into the lower bracket so that the threaded portion of the lines face Driver and Passenger sides respectively; this will indicate the proper index has been utilized (threaded portion of the lower brake lines should NOT face up or down). Once installed, use a 13mm line wrench to tighten the hardline fittings to the Carli Lines.

10. Secure the brake lines to the axle bracket with the provided clips.

11. FIGURE 7 - Check the brake line routing; if the lines aren't resting toward the inside (Away from the frame rail), break the upper fittings loose and rotate the line until its natural position rests toward the center to the truck and tighten. Once the routing is set, tighten all fittings and use the provided clips to lock the orientation.

12. FIGURE 8 - Use zip-ties to reconnect all brake lines, ABS lines and the axle vent tube ensuring sufficient slack is now present.

13. Bleed the brakes and continue to the next step in the installation instructions.

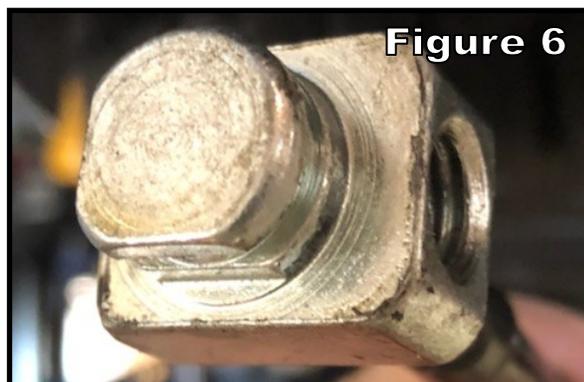


Figure 6



Figure 7

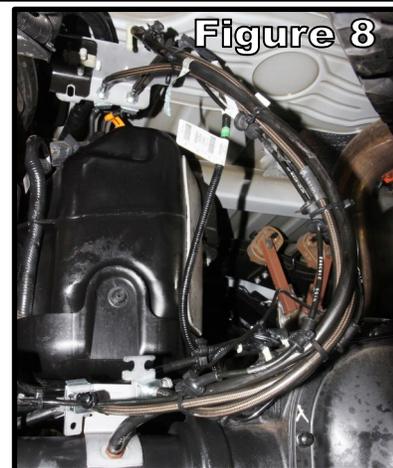


Figure 8