

## **CS-FLTB-08 – Ford Long Travel Airbags 2008-2016 F250/F350**

### **NOTE:**

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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**

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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.



**Special Notes:**

- THIS AIR BAG SYSTEM WAS DESIGNED AROUND A STOCK EXHAUST CONFIGURATION. SOME AFTERMARKET EXHAUST SYSTEMS WILL REQUIRE MODIFICATIONS TO THE TAIL PIPE!
- Installation will be done with rear axle at full droop (extended).
- If the airbags are being installed with add a pack configuration, the bumpstop tangs must be cut off of the factory block if the factory block is being used! This is not necessary with the full spring pack as the factory blocks are removed.
- AIR PRESSURE, **EMPTY:** 5psi **Loaded:** Bags can be filled to a MAXIMUM of 100psi. Adjust the pressure according to the load.

**Package Contents:**

(2) Upper Mounting Brackets	(1) 3/8"x 1.25" bolt	(4) 3/8" carriage bolts
(2) Air Bags	(10) 3/8" Washers	(2) 90 deg Air Fittings
(2) Two-Piece Axle brackets	(8) split lock washers	(2) Schrader Fill Valves
(2) 5/8" x 1.25 bolts	(3) 3/8" C-lock nuts	(1) Heat Shield, Air Line Hose
(2) 5/8" SAE flat washers	(4) 3/8" hex nuts	(1) P clamp for e-brake cable.
(4) 3/8"x 1.0" bolts	(2) 3/8"x 1" Counter Sunk bolts	

**Installation Instructions:**

1. Block front wheels so vehicle will not roll while doing the install.
2. Jack up rear of the vehicle and place jack stands under both frame rails.
3. Let axle fully extend, remove rear wheels if needed.
4. Attach air bag to upper bracket with supplied 3/8 x 16 x 1 flat counter sunk fastener as shown. Position the bags so the driver side air inlet faces directly to the rear of the truck, and the passenger side air inlet faces the front of the truck. (Align heat shield between the air bag and upper bracket on the passenger side before tightening).



5. Remove the rear O.E yellow bumpstops, you will no longer need these while the long travel air bags are installed.
6. Un-bolt the brake line bracket from the frame on the driver's side and remove the captured nut from the bracket.



7. Loosen all bolts to the brake line bracket ensuring it can be moved when attempting to fit the upper air bag bracket between the brake line bracket and the frame.
8. Mount the upper bracket against the frame so it's flush with the bottom of the frame. Using the supplied 3/8 x 16 x 1 hex bolt, washer, and nut, bolt the lower portion of the upper bracket to the frame rail in the factory bump stop mounting location.

**NOTE:** The washer goes with the **bolt** through the frame.

**NOTE:** Make sure not to crush any electrical lines while lining up and bolting in the upper air bag bracket!!!



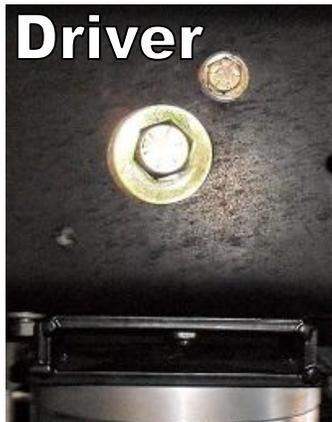
9. Put the 5/8" x 1.25" bolt with washer through outside of frame and thread into the upper air bag bracket. Leave loose.
 

**NOTE:** Trucks with factory 5<sup>th</sup> wheel hitches will require clearancing of the outer support bracket to access the main bolt hole for the airbag bracket. We use a hole saw to provide clearance, grinder to debur and black paint to protect from rust.

**NOTE:** Trucks with aftermarket 5<sup>th</sup> wheel hitches may have an existing bolt in the center frame hole. This scenario may require users to get creative with mounting if the bolt is larger than 5/8". We only guarantee fitment with factory 5<sup>th</sup> wheel equipped trucks. A longer, 5/8" Bolt has always done the trick for us.



10. Put the 3/8" x 1.25" bolt with washer through the frame, upper air bag bracket and then the brake line bracket. Follow with another washer and c-lock nut.

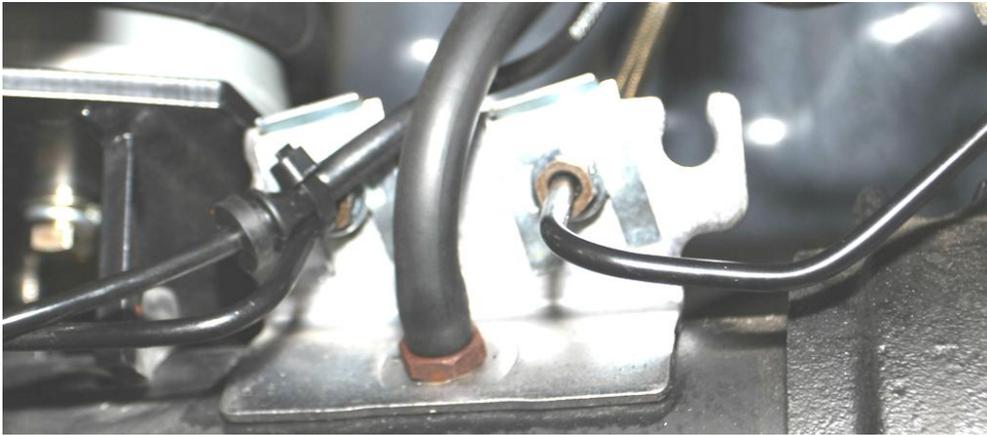


**NOTE:** For the passenger side upper air bag bracket the 3/8" x 1.25" bolt is not necessary. All that is needed is the 5/8" x 1.25" bolt and washer along with the 3/8" x 1.00" bolt and washer that go through the frame down into the bracket.

11. Tighten all bolts:
  - a. 5/8" to 150lb/ft.
  - b. 3/8" to 35 lb/ft.
  - c. Brake Line bracket bolts – Snug.
12. Attach air bag to lower plate using supplied 3/8" x 1.0" bolts, flat washer and split lock. Leave loose at this point.
13. Put the lower air bag plate on the axle making sure that on the driver's side the overhang from the plate faces inward.
 

**NOTE:** 2011+ Trucks with Dual Brake lines and ABS will require clearancing of the axle-mounted brake/ABS line bracket to

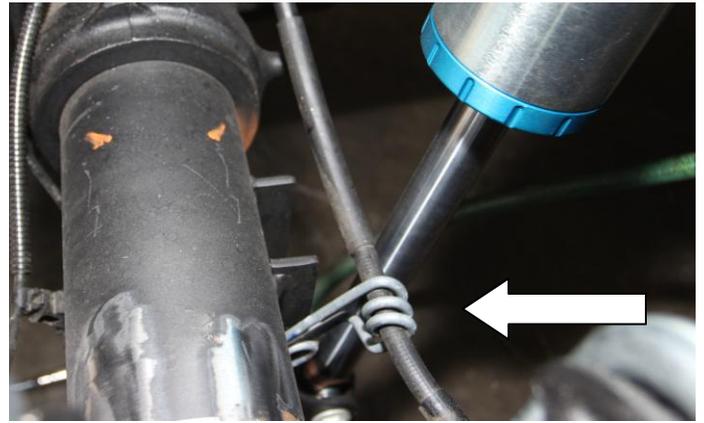
accommodate the Carli lower airbag bracket. We commonly cut the left-most ABS retainer off the bracket and zip tie the ABS Line to the brake line to provide clearance.



14. Insert carriage bolts through lower air bag plate, put the lower air bag plate strap under the axle with carriage bolts running through it followed by a washer, split lock washer, then nut. Leave loose at this point.

**NOTE:** Be careful not to crush any of the hard brake lines with the lower airbag plates or straps

**NOTE:** On the front of the axle on the passenger side, it will be necessary to remove the e-brake cable hold down off of the shock mount (See arrow in the following picture). Once unclipped, remove the bracket from the E-brake line by unwinding it and discard. Attach the E-Brake line to the lower bracket with the supplied insulated P-Clamp.



15. Tighten the lower air bag bolt ensuring the bag doesn't twist when tightened.
16. Lower the rear of the truck to ride height, then tighten carriage bolts ensuring the lower bracket as neutral (level) as possible.  
**NOTE:** The bag brackets do not need to be perfectly level but should not be at an extreme angle. A perfect alignment would lay the bag rubber evenly over the lower piston.
17. Ensure bags are lined up properly before final tightening, the bottom of the air bag may be slightly forward of the top. This is **ok**.
18. Bend the E-Brake cable retainer to ensure it does not rub the bag.



19. **Double check to make sure nothing is rubbing on the air bags!**
20. Route air line to desired fill location. DO NOT "T" the bags together, each bag needs its own air line to operate properly. These can be run with any compressor setup on the market that utilizes a 1/4" airline and operates the pressure of each bag individually.
21. Set truck on the ground and fill bags to 50psi. Check for any leaks by spraying the bags/lines with a soap/water mixture and look for bubbles.
22. Once everything is confirmed to be properly aligned and functional, tack weld the 4 corners of each bracket to the axle tube to prevent rotation under load.

