

CS-LTB-12-D & CS-LTB-12-H

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.



Fitment

CS-LTB-12-D

2012-13: DODGE 2500-3500 4X4 - Diesel
Traction Control
Dual Brake Line Equipped

CS-LTB-12-H

2012-13: DODGE 2500-3500 4X4 - Hemi
Traction Control
Dual Brake Line Equipped

What's Included In the Kit

- (2) 2012+ Upper Brackets (MIRRORED)
- (2) Airbags
- (2) 2012+ Assembled Lower Brackets *(MIRRORED)
- Hardware kit with New (Taller) Vent Relocation
- Heat Shield
- (1 pair) "Carli" Black Billet Bump Stop Drops
- Air Line (3 arms length, or 9 feet).
- Airbag Instructions

NOTES:

- Air bag system was designed to function with a stock exhaust configuration. Aftermarket exhausts may require modification!
- This Airbag kit needs 1"-2" of lift in the rear, **DO NOT RUN** this kit on a stock-height truck.
- 4" rear lift (matches 6" front lift) requires spacer (mounts between the bag and the upper airbag Bracket): **PN: CS-AIRBAGSPCR**
- Installation will require rear axle at full droop (extended).
- AFTER INSTALLATION AND BAG ALIGNMENT, A TACK WELD ON EACH SIDE OF EACH LOWER BRACKET WILL ENSURE THEY DO NOT ROTATE
- **If installing on a hemi, Exhaust modification will be required to clearance the passenger side upper bracket from the resonator over the axle.**

Installation Instructions

1. Block front wheels so vehicle will not roll during installation
2. Jack up rear of the vehicle and place jack stands under both frame rails.
3. Let axle fully extend and (Wheel removal optional)
4. Remove rear bump stops.
5. Remove vent tube from axle housing.
6. Remove vent tube fitting from axle housing.
7. Lift rear brake line bracket from axle to allow room for washer for the vent tube relocation underneath bracket.
8. Install supplied vent tube relocation fitting. Position fitting toward the front of the truck. Tighten fitting at both points.
9. Mount upper air bag brackets to inner frame rails using supplied bump stop bolts. Be sure to route the wire harness over the top of the mount on the driver side.



10. Use supplied P-clamp with bolt to secure brake line away from the bracket. This must be used to ensure that the brake line is kept away from the airbag.



11. Mount the “Carli” Logo billet bump stop drop blocks between the Airbag bracket and the bump stop.
DO NOT SPACE THE AIRBAG BRACKET BY INSTALLING THE DROP BLOCKS BETWEEN THE FRAME MOUNT AND AIRBAG BRACKET.

Order: frame bump stop mount, air bag bracket, Billet Spacer drop block, OEM Bump stop.

- 1: Airbag Bracket (against frame-bump mount)
2: Billet Spacer
3: OEM Bump Stop



12. Use a transfer punch to mark the 4 holes to be drilled on each frame rail.

NOTE: For cleaner install, remove brackets before drilling holes.

13. Use a 3/8” drill bit to drill 2 lower holes on each side.
14. Use a 19/64” drill bit to drill 2 upper holes on each side. Be sure to use only a 19/64” drill bit! This will allow the self tapping bolts to go through the double walled frame.
15. Loosely attach upper brackets using supplied 10x1.5x50mm bump stop bolts, then Billet Aluminum Bump Stop Drops, and then the OEM bump stops. Do not tighten until all fasteners are in. Mount supplied billet drop blocks in between the air bag bracket and the factory bump stops.
Again, Do not mount the drop block in between the air bag bracket and the frame!
16. Use the supplied 3/8 – 16 x 1 button head bolts through the bottom two holes putting the washer and nut on the frame side.
17. Use the supplied 5/16 – 18 x 1 self tapping screws through the upper holes. Do not use an impact!



18. Install 90° swivel fittings into air bags.
19. Mount air bags to upper brackets using supplied bolt, lock washer, and flat washer. Ensure swivel fittings point toward rear of the truck. Heat shield goes on passenger side sandwiched between upper bracket and air bag. Face the heat shield toward the closest part of the exhaust.
(Note: Exhaust is removed in picture for clarity.)



20. Pry back brake line retainer on passenger side and tap flat against the axle.



21. Mount lower brackets to bottom of air bags with supplied bolts, lock washers, and flat washers.



22. Pull air bag down until lower bracket seats squarely on the axle.
23. For the driver's side lower air bag bracket, the brake line may need to be bent very slightly in order to fit into the bracket. Before installing the driver's side lower bracket, remove the innermost ABS wire from the factory brake line tab. Ensure to leave this out of the way as it will sit outside of the lower air bag bracket.

The proper sequence to install the driver's side lower bracket is as follows:

- 1 - Slide the outside of the bracket over the hard brake lines
- 2 - Slide the bracket towards the inside of the truck
- 3 - Set the bracket over the brake line bracket. Use a zip tie to secure the abs wire after the installation is done.

****Use the pictures as a Reference.



24. Insert supplied 3/8 -16 x 1 1/4" carriage bolts through square holes in lower brackets.
25. Now use the clamping bracket to secure lower bracket to the axle. These will mount inboard of shock mounts.

NOTE: Loosen Parking brake cable on passenger side shock mount for easier assembly.

DO NOT PINCH BRAKE LINE BETWEEN AXLE AND CLAMPING BRACKET!!!!!!!!!!!!



26. Make sure bags are lined up properly before final tightening. They must be aligned left to right, and mounts must be parallel to each other at ride height or damage to the air bag may occur.
27. Bolt driver side brake line T Block to tab on lower bracket with supplied 1/4 -20 x 1 1/4 fastener.
NOTE: Be very careful when adjusting brake lines to proper alignment with the tab. And be sure to make sure brake lines are clear from any interference.
28. Reroute vent tube to the front of the air bag and up to the wire harness on the frame. Zip tie accordingly.

29. Bend parking brake hanger on driver side to pull cable away from the air bag.



30. Zip tie abs wire on drivers side lower bracket to secure.
31. Double check to make sure nothing is rubbing on the air bags!
32. Double check each step of assembly.
33. To ensure the lower bag brackets do not rotate under load, put a solid tack weld on each corner of the lower airbag brackets. (4 per bracket)
34. Route air line to desired fill location.
35. Set truck on the ground and fill bags to 50psi to check for any leaks.

AIR PRESSURE

- EMPTY = MIN 5psi
- Loaded = Bags can be filled to a MAXIMUM of 100psi. Adjust the pressure according to the load.
- Carli Long Travel Airbags are designed to supplement your payload capacity for light to medium duty applications, they are not designed for heavy or severe duty loads, and they are not designed for constant heavy weight.
- Carli Airbags work best in the 20-70PSI range. If the bags are inflated to 70+ psi consistently, there is a risk that the lifespan of the bag will be shortened.

