



**CS-DHYDRO-03-F
Front Hydro Bumps**

**Carli Suspension, Inc.
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Lake Elsinore, CA 92530
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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 "Parts Checklist" 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 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.

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: Bushings, Heim Joints, Uniballs, Limit Straps. Carli Suspension cannot warrant a product's cosmetic finish due to the varying extreme elements that may be encountered.

Note

- This installation requires welding, we recommend it be performed by a trained professional.

Parts Checklist

- | | |
|---|---|
| <input type="checkbox"/> (QTY. 2) King Hydro-Pneumatic Bump Stops | <input type="checkbox"/> (QTY. 2) Chromoly Bump Stop Strike Plates |
| <input type="checkbox"/> (QTY. 2) Chromoly Bump Cans | <input type="checkbox"/> (QTY. 2) 5/16" x 1.25" Brake Line Bolts, washers and nuts. |
| <input type="checkbox"/> (QTY. 2) Pinch Bolts w/ Nuts (3/8") | |

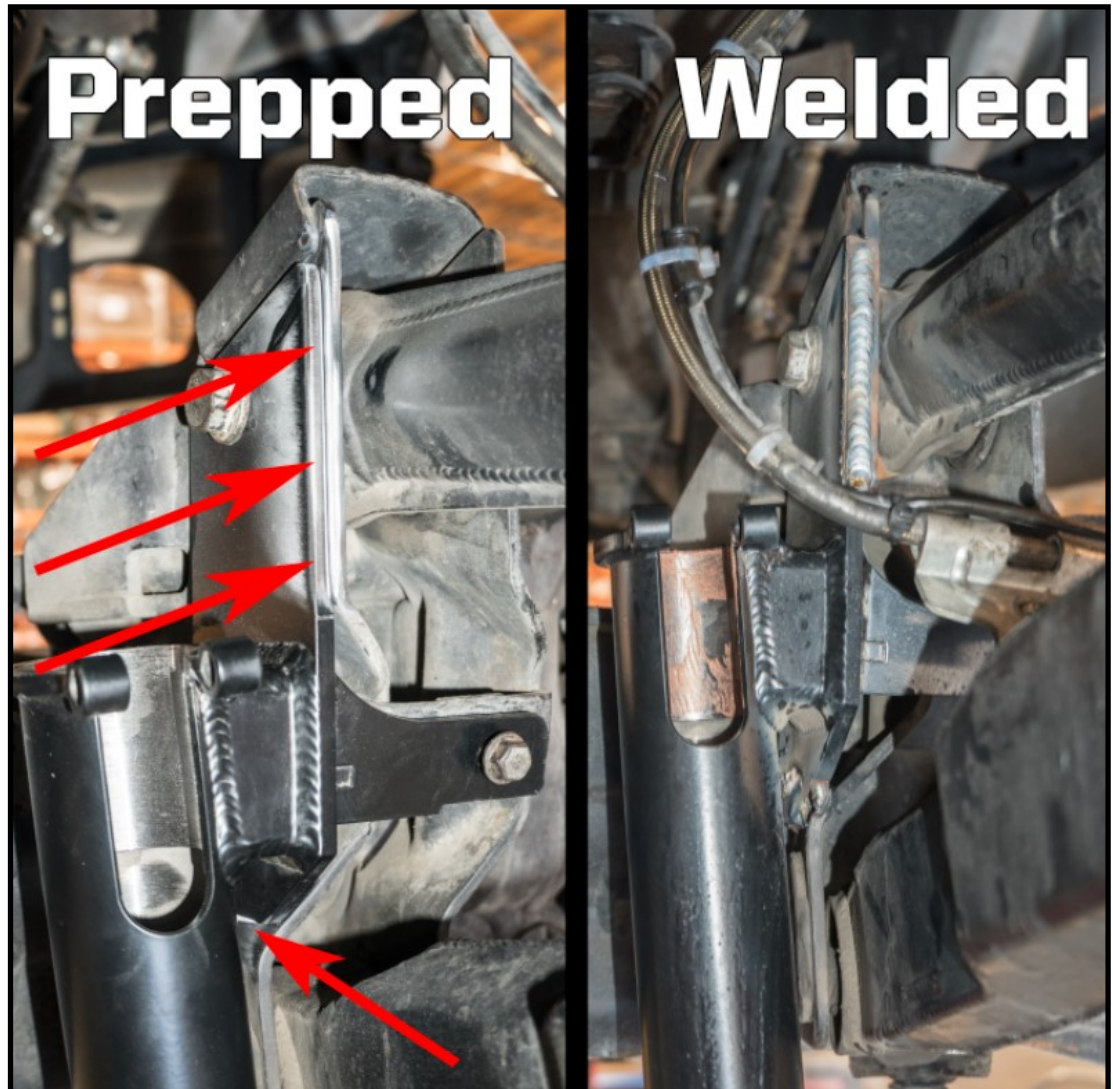


Installation Instructions

1. Lift the vehicle and support from the frame with jack stands.
2. Disconnect the front Sway bar end links from the sway bar.
3. Remove front shocks, Track bar and coil springs setting the axle on jack stands.
4. 13MM - Remove the bolt securing the brake lines between the axle control arm mounts and use a 3/8" Drill Bit to drill the threads out of the factory axle mount. We will use the provided 5/16 x 1.25" bolt to secure this.



5. 21MM - Remove upper control arm bolt at the axle. ONE AT A TIME - Removing both at the same time requires supporting the pinion.
6. Test fit the bump stop can to the inside of the control arm mount using the factory bolt and 5/16" bolt in the brake line bracket mount. Use a paint marker to mark the areas to be cleaned/prepped for welding. We recommend running a bead along the vertical contact along the mount and the bottom, horizontal of the bump can bracket to the control arm bracket. NOTE: There's variance in truck in the lower portion, this may require some filling when welding.
7. With the areas marked, remove the bracket and clean all surfaced to which you're going to weld.
8. Reinstall the bump can, tie up the brake lines away from the control arm mount and weld.
9. Reinstall Upper Control Arm Bolt Torquing to 140lb.ft.



10. Move to the upper coil bucket. Cut off the tab that hangs below the frame at the rear of the coil bucket.
11. Place the upper strike plate into position. It sits flat to the bottom of the frame and the tab indexes to the coil bucket itself. It won't likely sit flat against the bucket, we like to tack it in place and strike it with a hammer until it's flat to the bucket but it's not required.
12. With the strike plate in position, mark it's location and remove so you can clean the areas to be welded.
13. Tack the strike plate in place.
14. When the welds have cooled, coat the bump stop itself with Antiseize and place it into the welded can.
15. Use a jack to compress the axle and ensure the bump stop comes in contact with a well-supported portion of the strike plate, not the edge! (if the passenger's side hits too far toward the outside, it's likely your adjustable track bar is set too long.)
16. Once location is confirmed, remove the bump stops from the cans and run a bead along the front and back of the strike plate itself to the bottom of the frame and weld the vertical to the frame as well. (driver's side shown in picture)
17. When everything has cooled, primer and paint all bare surfaces and reinstall the bump stops into the cans.
18. Secure the bump stops with the provided pinch bolts. **DO NOT OVERTIGHTEN.**
19. Use the provided 5/16" Bolts, washers and nuts to secure the brake lines to the axle mount.
20. The King Bumps come pre-charged to 250psi. It is advised not to tamper with the nitrogen pressure which could lead to poor performance and shock oil loss.

