

# 1999-2006 + 07 Classic Lowering Kit Instructions

Applies to all 2wd coil springs. All cabs.

IF your IHC Suspension product has a damaged or missing part, please contact customer service directly and a new replacement part will be sent to you immediately. For warranty issues, please return to the place of installation and contact IHC Suspension.

(956) 424-6901

Monday-Friday 8AM-6PM CST

Or

EMAIL: [Sales@ihcsuspension.com](mailto:Sales@ihcsuspension.com)

WEBSITE: [www.ihcsuspension.com](http://www.ihcsuspension.com)

## **LIMITED LIFETIME WARRANTY**

This unique product warranty proves our commitment to the quality and reliability of every product that IHC Suspension manufactures. The IHC Suspension product warranty only extends to the original purchaser of any IHC Suspension product, if it breaks, we will give you a new part. Warranty does not apply to discontinued parts.

Our Limited Lifetime Warranty excludes the following IHC Suspension items, bushings, bump stops, ball joints, and shock absorbers. These parts are subject to wear and are not considered defective when worn. They are warranted for 12 months from the date of purchase for defects in workmanship.

**This product warranty is voided if the vehicle is not aligned after kit installation and proper maintenance is routinely done.**

Product purchased directly from IHC Suspension has a 30-day return policy on uninstalled products from the date of purchase (may be subject to restocking fee). Uninstalled product returns must be in the original IHC Suspension packaging. Please call 956-424-6901 to get an RMA# for any return. Customer is responsible for shipping costs back to IHC Suspension. **Returns without RMA# will be refused.** Contact IHC Suspension directly about any potentially defective parts prior to removal from vehicle.

IHC Suspension products are **NOT** intended for off-road abuse. Any damage or failure as a result of abuse voids the warranty of the IHC Suspension product. IHC Suspension is **NOT** responsible for any subsequent damages to any related vehicle parts due to misuse, abuse, improper installation, or lack of maintenance. Furthermore, IHC Suspension reserves

the right to change, modify or cancel this warranty without prior notice.



READ INSTRUCTIONS THOROUGHLY AND COMPLETELY BEFORE BEGINNING INSTALLATION.

INSTALLATION BY A **CERTIFIED PROFESSIONAL TECHNICIAN** IS HIGHLY RECOMMENDED.

IHC Suspension IS **NOT** RESPONSIBLE FOR ANY DAMAGE OR FAILURE RESULTING FROM IMPROPER INSTALLATION.

### **Safety Warning**

MISUSE OF THIS PRODUCT COULD LEAD TO INJURY OR DEATH.

Suspension systems or components that enhance the on and off-road performance of your vehicle may cause it to handle differently than it did from the factory. Extreme care must be used to prevent loss of control during abrupt maneuvers.

Always operate your vehicle at reduced speeds to ensure your ability to control your vehicle under all driving conditions. Failure to drive safely may result in serious injury or death to driver and passengers.

Driver and passengers must ALWAYS wear your seat belts, avoid quick sharp turns and other sudden maneuvers. IHC Suspension does not recommend the combined use of suspension drop spindles, drop struts, drop springs or other lowering devices.

You should never operate your vehicle under the influence of alcohol or drugs.

Constant maintenance is required to keep your vehicle safe. Thoroughly inspect your vehicle before and after every drag race/race use.

It is the responsibility of the retailer and/or the installer to review all state and local laws, with the end user of this product, related to bumper height laws and the lowering of their vehicle before the purchase and installation of any IHC Suspension products.

It is the responsibility of the driver/s to check their surrounding area for obstructions, people, and animals before moving the vehicle.

All lowered vehicles may have increased blind spots; damage, injury and/or death can occur if these instructions are not followed.

### **Installation Warning**

All steps and procedures described in these instructions were performed while the vehicle was properly supported on a two-post vehicle lift with safety jacks.

Use caution during all disassembly and assembly steps to ensure suspension components are not over extended causing damage to any vehicle components and parts included in this kit.

Included instructions are guidelines only for recommended procedures and are not meant to be definitive. Installer is responsible to insure a safe and controllable vehicle after performing modifications.

IHC Suspension recommends the use of an OE Service Manual for model/year of vehicle when disassembly and assembly of factory and related components. Unless otherwise specified, tighten all bolts and fasteners to standard torque specifications listed within the OE Service Manual.

Suspension components that use rubber or urethane bushings should be tightened with the vehicle at normal ride height. This will prevent premature wear or failure of the bushing and maintain ride comfort.

Larger tire and wheel combinations may increase leverage on suspension, steering, and related components. Due to payload options and initial ride height variances, the amount of drop is a base figure. Final ride height dimensions may vary in accordance with original vehicle ride height. Always measure the vehicle ride height prior to beginning installation.

## **PRE-INSTALLATION MEASUREMENTS**

It is imperative that you record the following measurements and factory components in the tables below. IHC Suspension tests and records as much data from each application as available at the time of product development. Vehicle manufacturers may change components or add models with different options. Recording and not exceeding the fender-to-hub-center IHC Suspension calls out will ensure the drop on the vehicle is correct.

These measurements will affect the performance of this lowering kit. Failure to ensure proper stock conditions may result in over lowering, causing premature failure on ball joints, if 4wd, axles, CV boots and drivetrain. Over lowering a vehicle will also result in an incorrect wheel alignment. This will wear tires incorrectly. Incorrect alignment will cause poor vehicle handling issues including but not limited to under steer. Over lowering the vehicle will also cause incorrect suspension geometry resulting in poor ride quality accompanied by pops and clunks which are symptoms of prematurely wearing components.

Failure to adjust head lamps may cause dangerous driving conditions for you and other drivers on the road. Record the head lamp position before the installation of this lowering kit and adjust to original factory position after the completion to ensure a safe and enjoyable experience. Refer to Owner's Manual.

## **VEHICLE HEIGHT MEASUREMENTS**

	DRIVER BEFORE	DRIVER AFTER	PASS BEFORE	PASS AFTER
FRONT				
REAR				

**\*\*MEASUREMENT IS TO BE PERFORMED FROM CENTER OF HUB TO FENDER EDGE STRAIGHT UP FROM HUB \*\***

- Make sure vehicle is on leveled pavement.
- All 4 tires are same size (if running stagger fitment measurement will vary)
- All 4 tires have corrected air pressure.



# WARNING

## **INSTALLATION WARNING**

IHC Suspension recommends all steps and procedures described in these instructions be performed while the vehicle is properly supported on a two-post vehicle lift with safety jacks.

Otherwise, park vehicle on a clean flat surface and block the rear wheels for safety. Engage the parking brake.

Disconnect the vehicle power source at the ground terminal on the battery. Lock the steering wheel in the straightforward position with the column lock or steering wheel locking device.

Raise the front of the vehicle and support with safety jack stands at each frame rail behind the lower control arms.

## **Before starting installation**

IHC Suspension highly recommends that the installation of this product be performed by a professional technician with experience working on and installing suspension products. Professional knowledge and skill will typically yield the best installation results. If you need an installer in your area, please contact IHC Suspension Customer Service to find one of our IHC Suspension Authorized dealers.

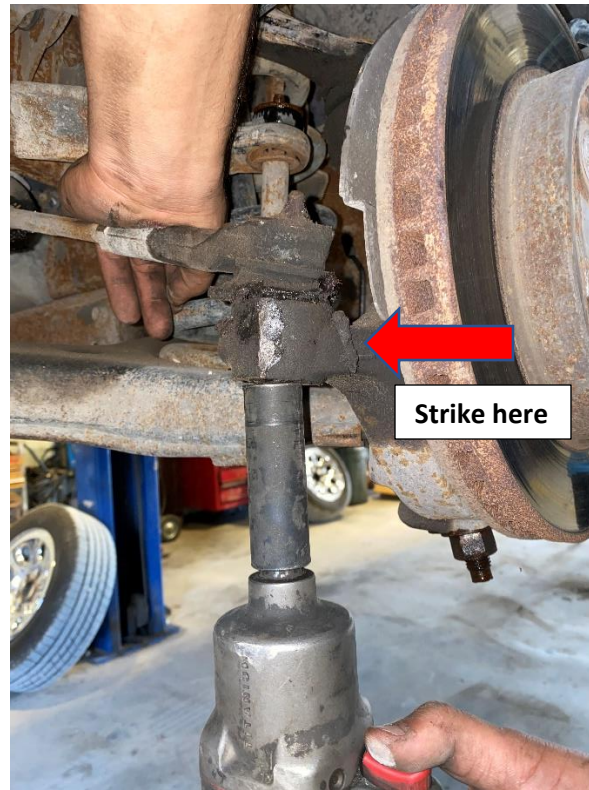
### **INSTALLATION BY A PROFESSIONAL IS HIGHLY RECOMMENDED**

- A Factory Service Manual for your specific Year / Make / Model is highly recommended for reference during installation.
- All lifted vehicles may require additional driveline modifications and / or balancing.
- A vehicle alignment is REQUIRED after installation of this product.
- Speedometer / Computer recalibration is required if changing +/- 10% from factory tire diameter.
- A vehicle lift or hoist greatly reduces installation time.
- Installation time estimates are based on an available vehicle hoist.

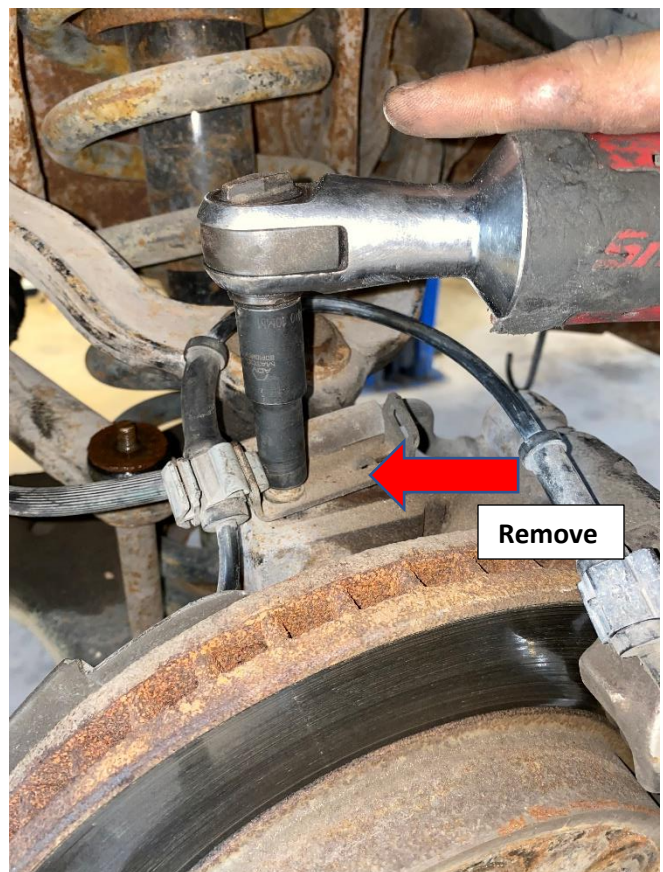
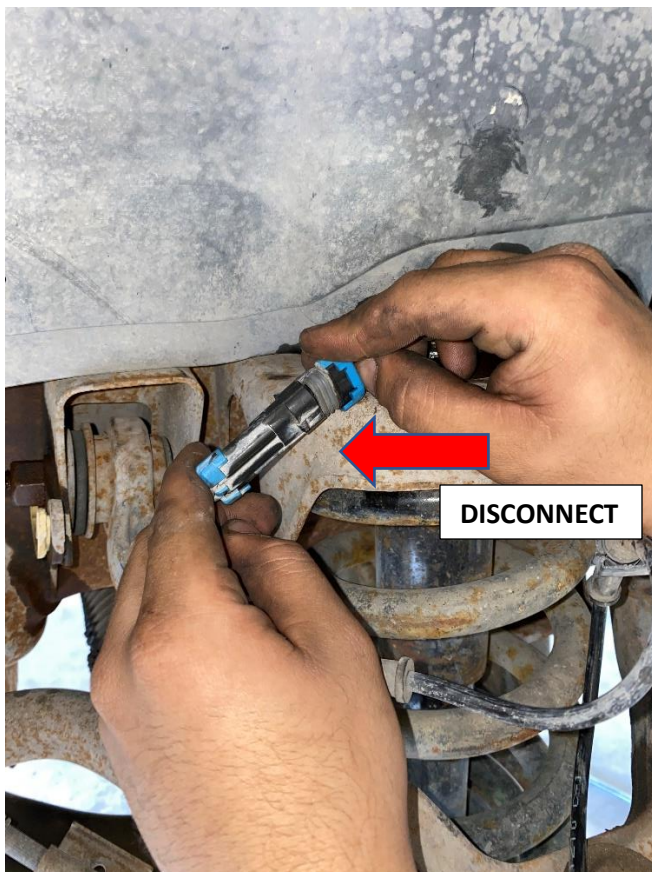
Vehicle must be in excellent operating condition. Repair or replace any and all worn or damaged components prior to installation of lowering kit



1. Disconnect the **negative terminal** on the battery. Jack up the front end of the truck and support the frame rails with jack stands. NEVER WORK UNDER AN UNSUPPORTED VEHICLE! Remove the front tires.
2. Remove the tie rods from the knuckle. Strike the tie rod boss on the knuckle with a dead blow hammer to dislodge the taper from the knuckle.

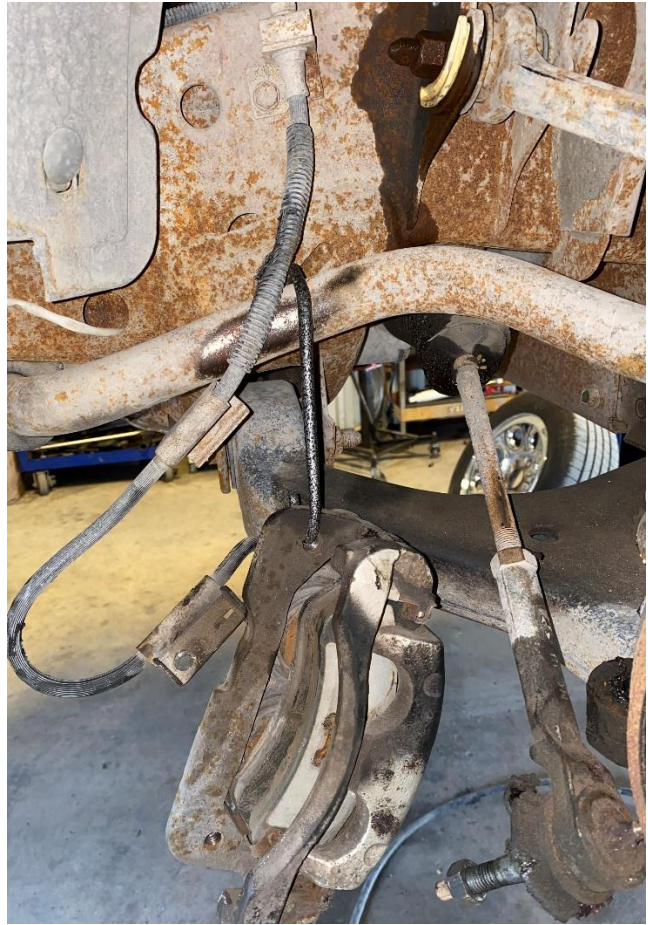


3. Continue to disconnect all abs wiring/brackets from knuckle.





4. Remove the brake caliper and properly secure. NOTE: DO NOT OVEREXTEND BRAKE HOSE

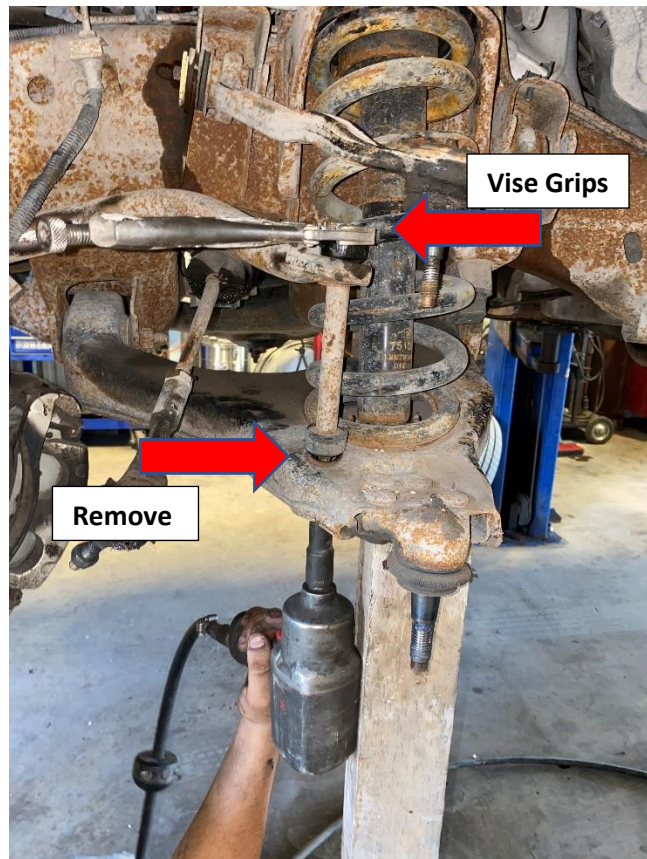
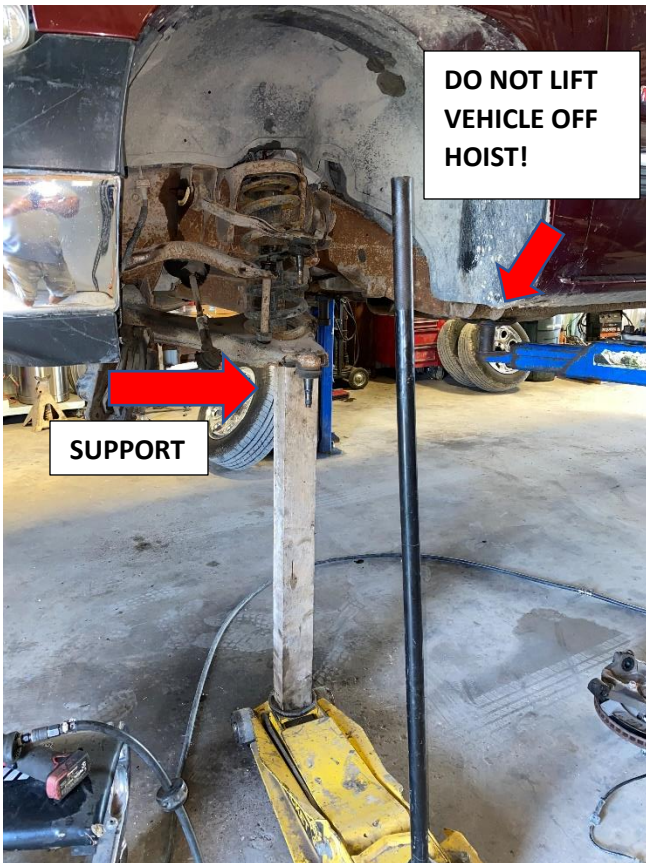


5. Loosen the upper/lower ball joint nut. Strike the ball joint boss on the knuckle with a dead blow hammer to dislodge the taper.

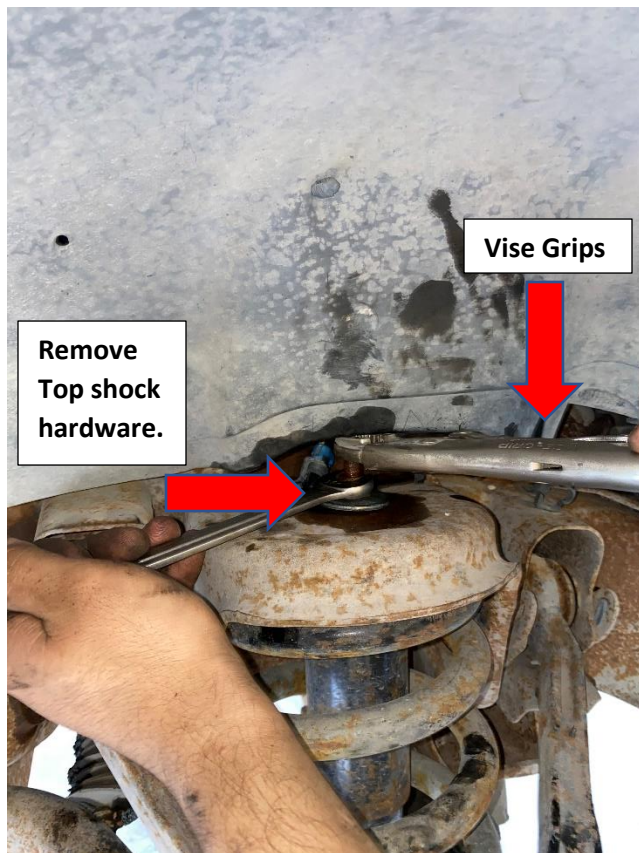




6. Properly secure lower control arm to remove sway bar link. Refer to pic.

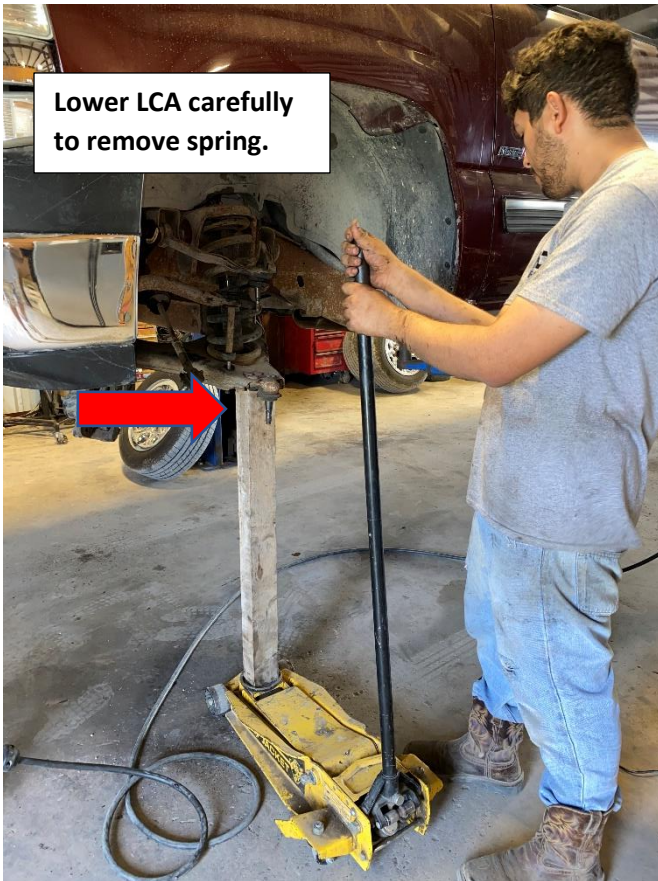


7. Remove lower and upper shock hardware. NOTE: MAKE SURE LCA STILL HAS PRESSURE UPWARD.





8. Carefully lower LCA with floor jack. Refer to pic

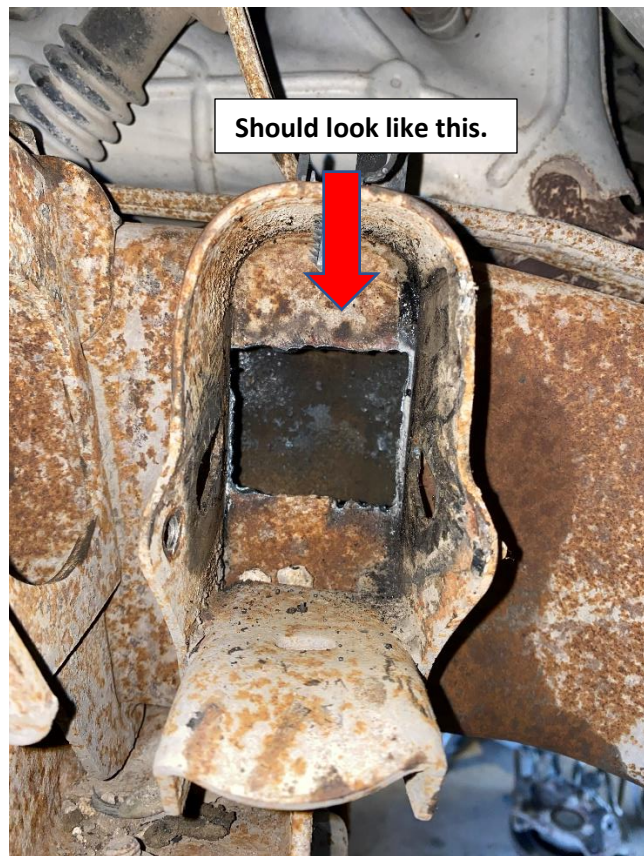
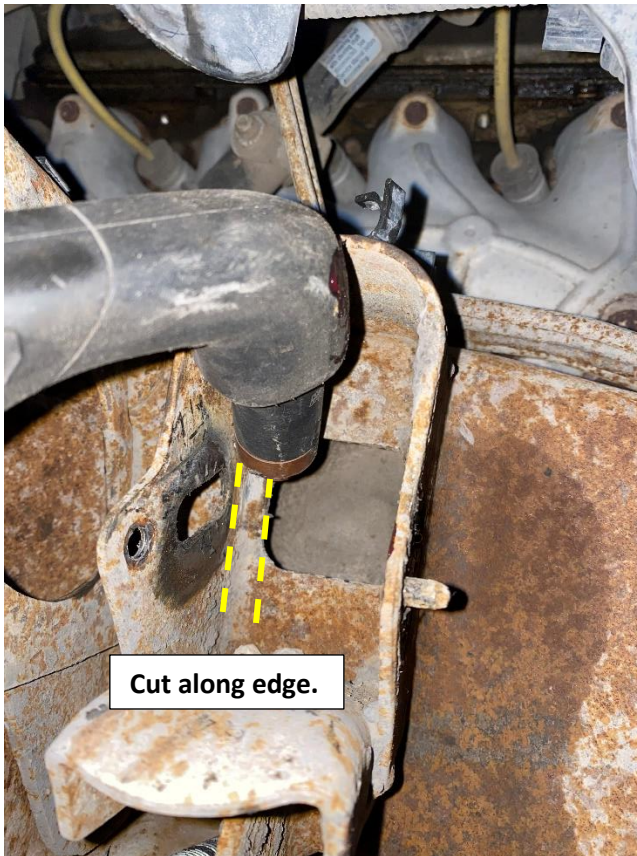


9. Remove upper and lower control arms.

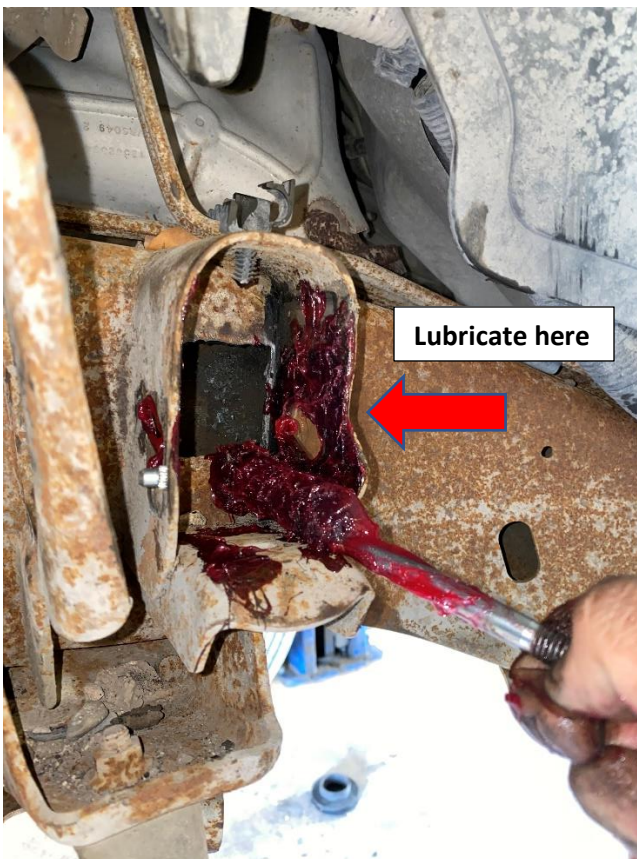




10. ONLY necessary PASSENGER SIDE FRONT SIDE. NOTE: This will allow control arm to have more adjustment.

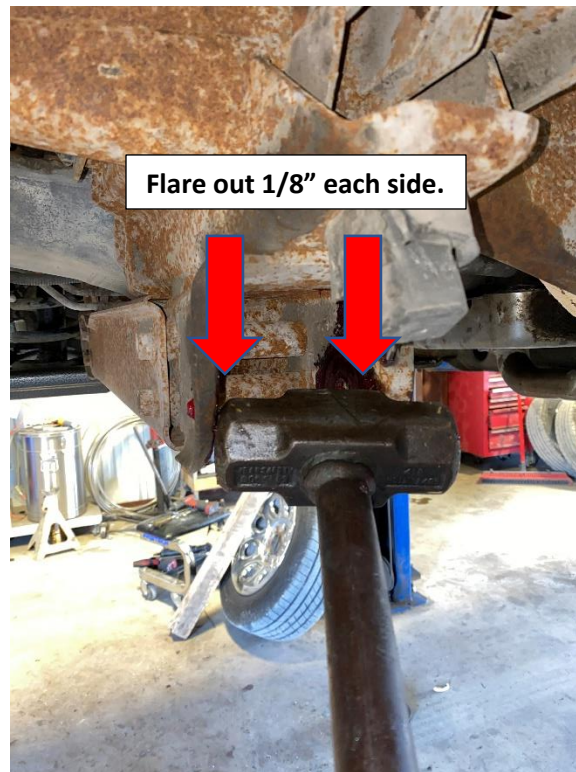


11. Lubricate upper and lower controls frame pocket.



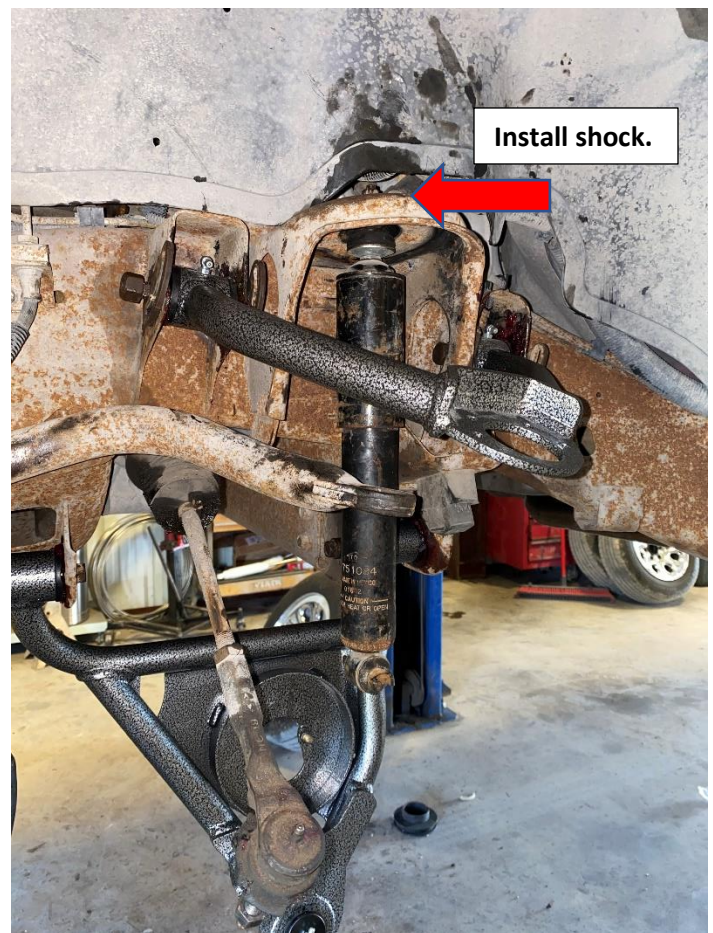
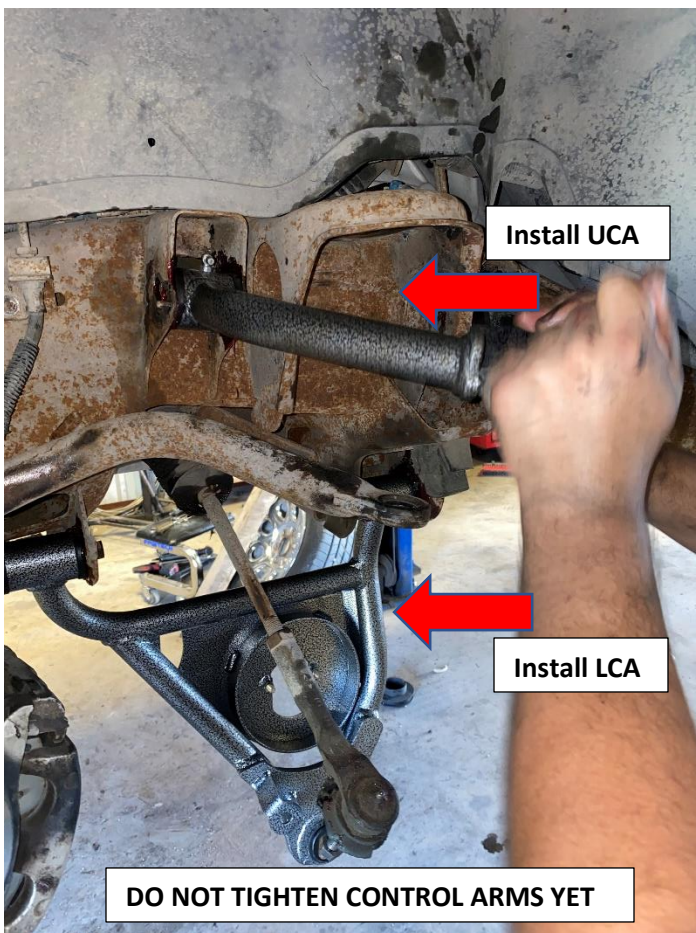


12. Flare out upper and lower frame pocket 1/8 each side.



13. Install upper and lower control arms. DO NOT TIGHTEN YET.

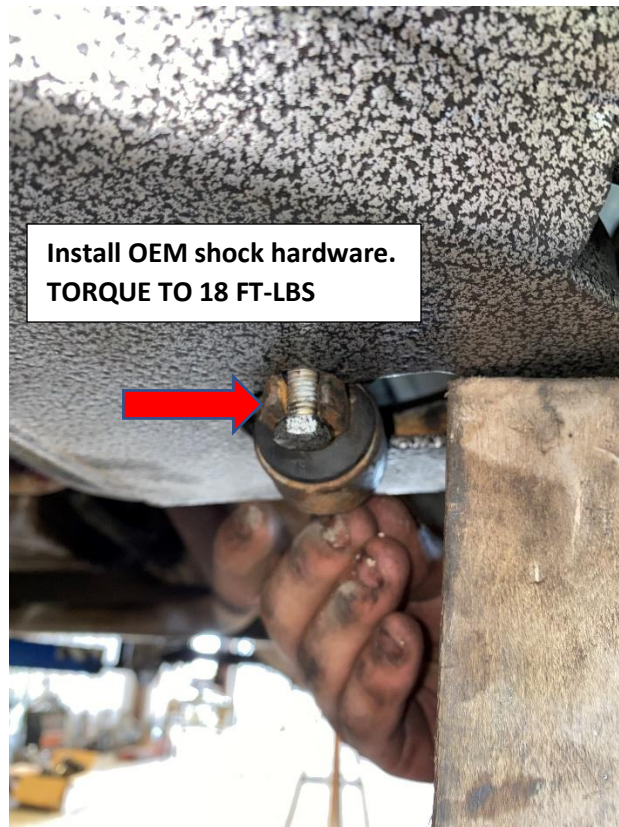
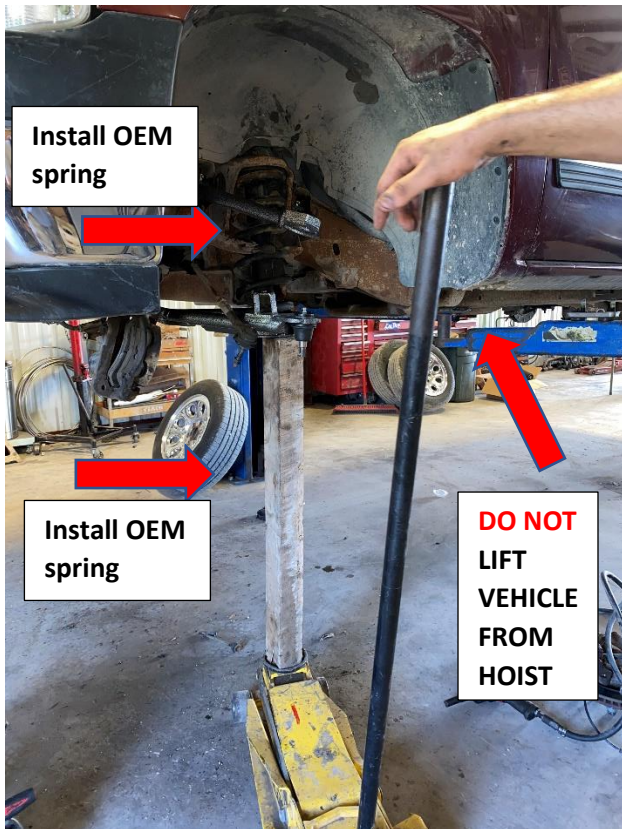
14. Install OEM shock to top side. DO NOT TIGHTEN YET.





15. Install OEM spring and mount shock to lower control arm. Carefully raise lower control arm until lower shock can mount to LCA. TORQUE TO 18FT-LBS.

**16. NOTE: DO NOT LIFT VEHICLE OFF HOIST!!! SERIUOS INJURY OR DAMAGE TO VEHICLE MAY OCCUR!**



17. Tighten upper shock hardware to 45FT-LBS.

18. NOTE: DO NOT OVERTIGHTEN OR DAMAGE TO GROMENT WILL OCCUT

19. Attach IHC upper ball joint part number K6136 or K6124 to IHC UCA. Toque 18Ft-lbs

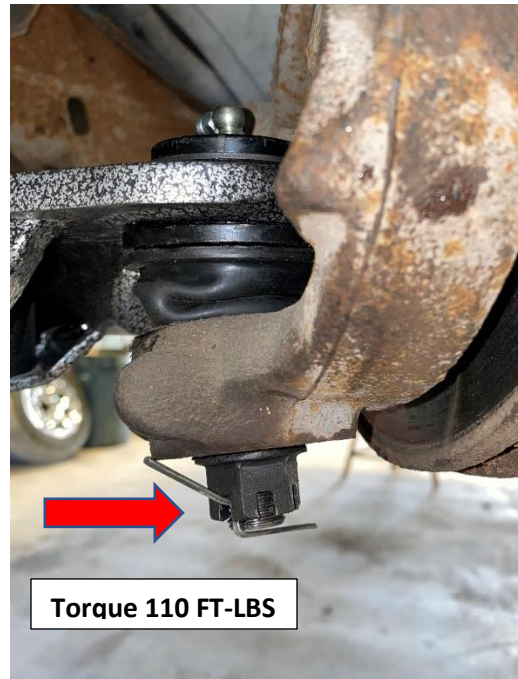
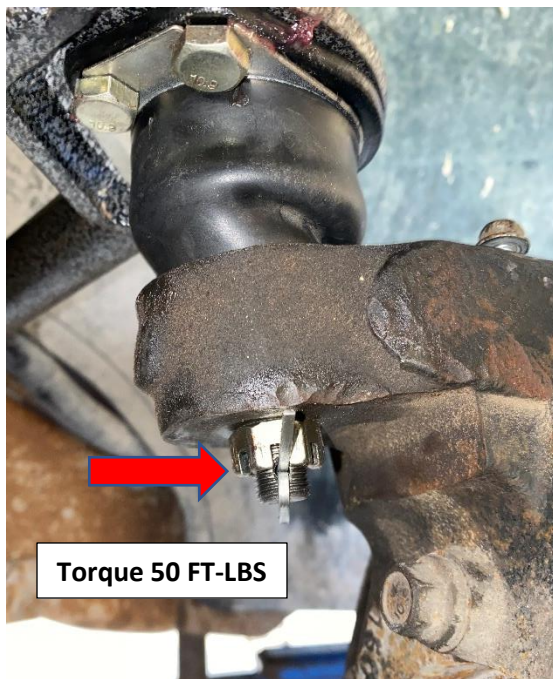
20. Ream spindle with ½ drill bit. ONLY necessary for upper ball joint. Refer to pic





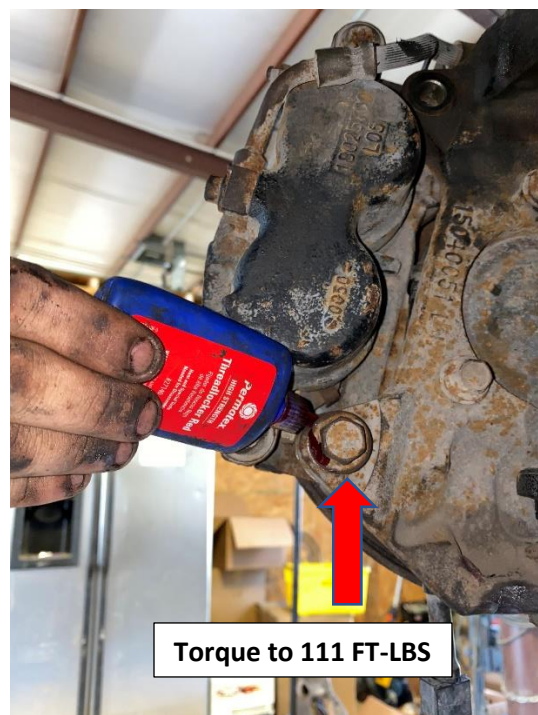
21. Install OEM knuckle to upper and lower control arms.

- TORQUE LOWER BALL JOINT 110FT-LBS. NOTE: Plus, additional torque to align cotter pin. Not to exceed 140 ft. lbs. maximum
- TOQUE UPPER BALL JOINT TO 50ft-lbs. NOTE: Plus, additional torque to align cotter pin. Not to exceed 90 ft. lbs. maximum



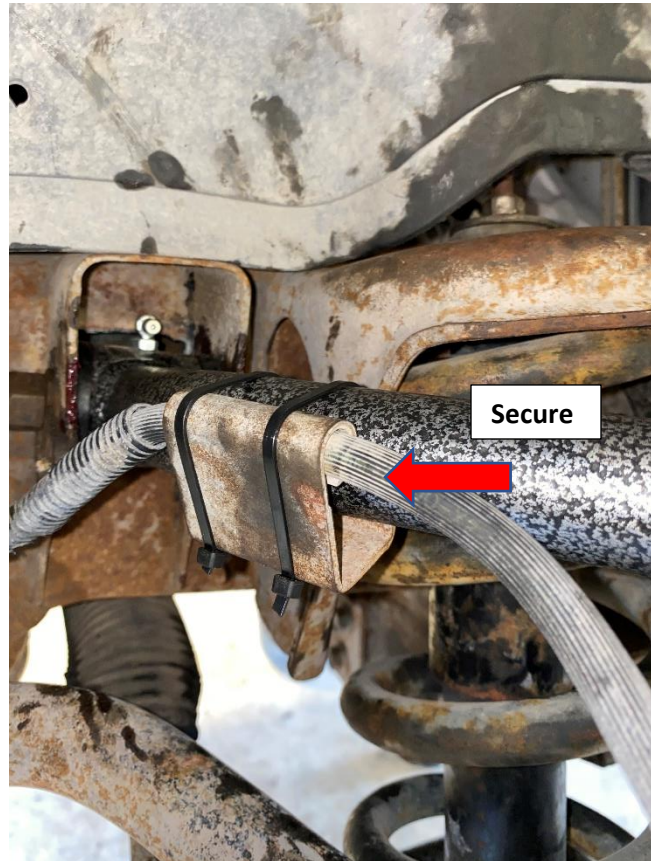
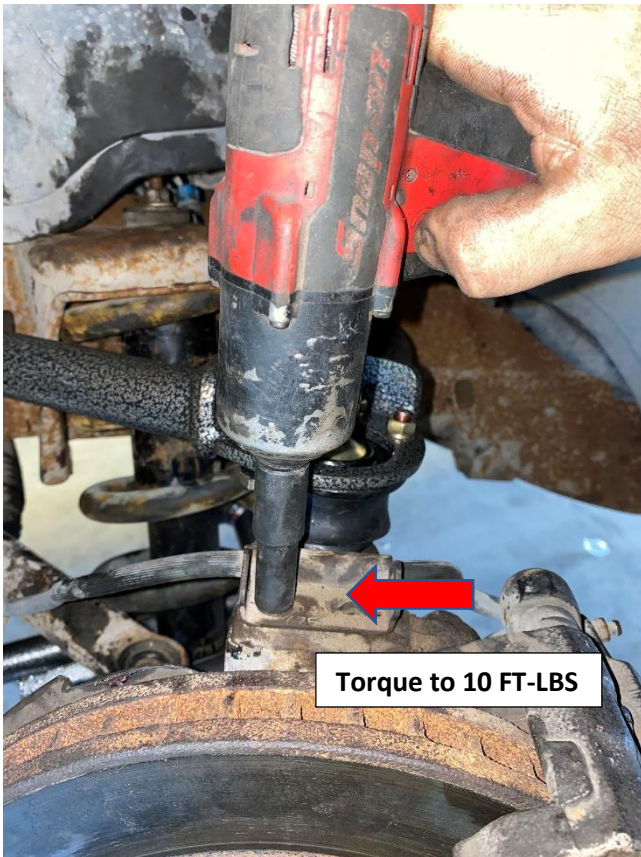
22. Re-install brake caliper. NOTE: MUST ADD RED LOC-TITE to OEM hardware.

23. TORQUE TO 111 FT-LBS





24. Install ABS bracket to spindle and secure brake bracket to UCA with zip ties.



25. Set both UCA alignment cams to halfway mark. DO NOT TIGHTEN YET. Refer to pic





26. Loosen sway bar from frame and install sway bar link. Refer to pic

27. TOQUE SWAY BAR LINK TO 14FT-LBS. NOTE: DO NOT OVERTIGHTEN OR DAMAGE TO GROMENT WILL OCCUR



28. Continue to repeat steps 2-27 on opposite side.

29. Once both sides are installed to torque sway bar to 30ft-lbs

30. Lubricate all control arms and ball joint zerk fitting.

**NOTE: failure to lubricate control arms bushing and ball joints at initial installation will void warranty and pre-mature damage to bushing and ball joints will occur.**

31. Install OEM sway bar and torque 18ft-lbs.

32. Jounce the front of the vehicle to settle the front suspension.

33. Ensure suspension is loaded before torquing lower control arms.

34. Final torque to be set by alignment technician.

35. Move the upper control arm to middle. Initial torque to 80FT-LBS. (Final torque to be set by alignment technician)

36. Torque lower control arms 114ft-lbs.

37. Prior to installing wheels, complete all installation steps on the opposite side. Install the wheels and lower the vehicle to the ground. Torque the lug nuts to the wheel manufacturers specs. Jounce the vehicle to settle the suspension to the new ride height. Torque the lower control arm hardware to 114 FT-LBS. Final torque to be done by the alignment technician. Reconnect the battery ground terminal. Start the vehicle and turn the steering wheel lock to lock and verify all clearances between tire, body, and suspension components. Adjust, as necessary.

38. NOTE: Have a reputable alignment shop set alignment to the recommended specs. If driving vehicle to an alignment shop, adjust toe prior to vehicle operation. Recheck that all hardware is of proper torque values and all electrical connections are hooked up. Start vehicle and verify that all dash warning lights are off. Cycle the steering wheel from lock to lock to check for any interference of wheels, tires, brake lines, hoses, wires, etc. and ensure adequate clearance throughout the suspension cycle. Adjust, as necessary.



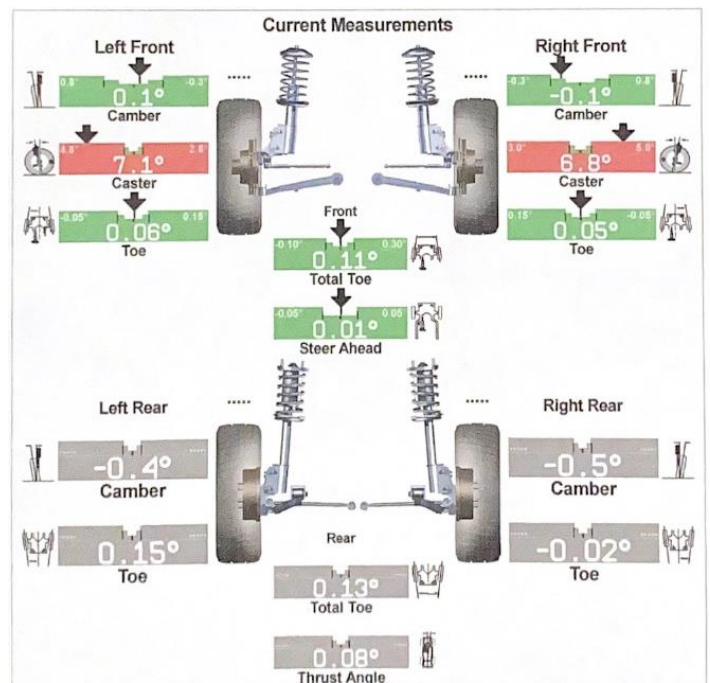
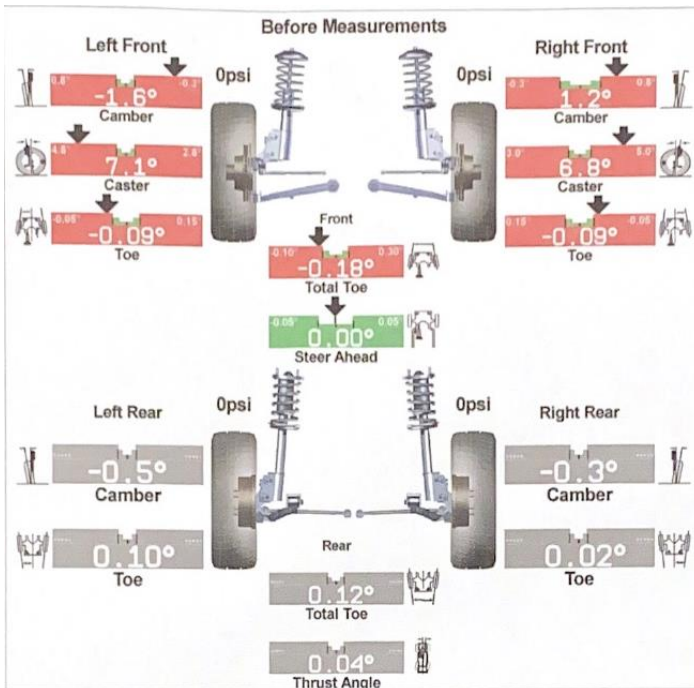
39. NOTE: The camber and toe are the most important alignment angles that need to be in green. Caster will be in RED due to the vehicle coming down and the wheel staying centered to fender wheel. Caster needs to be set relatively close to each other. Attached is a sheet as reference for actual alignment that was performed on the truck.

## RECOMMENDED ALIGNMENT SPECS

	DRIVER	PASSENGER	TOLERANCE	SPLIT
CAMBER	<b>+0.1</b>	<b>+0.1</b>	<b>+/- 0.5</b>	<b>0.0</b>
CASTER	<b>7.0</b>	<b>7.0</b>	<b>+/- 0.5</b>	<b>0.0</b>
TOE	<b>.05</b>	<b>.05</b>	<b>+/- 0.05</b>	<b>+ .20</b>

Attached is a sheet as reference for actual alignment that was performed on the truck.

Chevrolet : 1500/2500/3500 (Silverado/Cheyenne/C-K Series 1999- ) : 1500 4X2 : 1999 : Silverado  
1500 (GMT800 - Rear Disc Brakes)  
ExpressAlign Total Alignment



## **FAILURE TO PERFORM THE POST INSPECTION CHECKS MAY RESULT IN VEHICLE COMPONENT DAMAGE AND/OR PERSONAL INJURY OR DEATH TO THE DRIVER AND/OR OTHERS**

### **Final Checks & Adjustments**

Once the vehicle is lowered to the ground, check all parts which have rubber, Delrin or urethane components to ensure proper torque. Torque lug nuts to the wheel manufacturer specs. Move vehicle backwards and forwards a short distance to allow suspension components to adjust. Turn the front wheels completely left then right and verify adequate tire, wheel, brake line, and ABS wire clearance. Test and inspect steering, brake and suspension components for tightness and proper operation. Inspect brakes hoses and ABS lines for adequate slack at full extension, adjust, as necessary.

### **MAINTENANCE**

RECHECK ALL HARDWARE FOR PROPER TORQUE VALUES AFTER 500 MILES, AND THEN PERIODICALLY AT EACH SERVICE INTERVAL THEREAFTER. RECOMMENDED TO PERFORM MAINTENANCE ON ALL BALL JOINTS AND CONTROL ARMS. ADD GREASE EVERY 6 MONTHS OR EVERY 10K MILES. FAILURE TO PERFORM MAINTENANCE WILL CAUSE PREMATURE WEAR ON BALL JOINTS AND BUSHING.

### **Vehicle Handling Warning**

Lowering the height of your vehicle lowers the center of gravity and can affect stability and control. Use caution on turns and when making steering corrections. Vehicles with larger tires and wheels will handle differently than stock vehicles. Take time to familiarize yourself with the handling of your vehicle.

### **Wheel Alignment/Headlamp**

Adjustment It is necessary to have a proper and professional wheel alignment performed by a certified alignment technician. Align the vehicle to IHC Recommended specifications. It is recommended that your vehicle alignment be checked after any race/drag race driving. In addition to your vehicle alignment, for your safety and others, it is necessary to check and adjust your vehicle headlamps for proper aim and alignment. If the vehicle is equipped with active or passive safety/collision monitoring and/or avoidance systems including, but not limited to, camera- or radar-based systems, check and adjust your vehicle's systems for proper aim and function.

