

# **READYLIFT**<sup>®</sup>

**SUSPENSIONS**

**69-6836 2 Arm Lift Kit / 69-6837 4 Arm Lift Kit**

**If your ReadyLIFT<sup>®</sup> 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 ReadyLIFT.**



**READ INSTRUCTIONS THOROUGHLY AND COMPLETELY BEFORE BEGINNING INSTALLATION.**

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

**READYLIFT® 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 or vehicle rollover 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. ReadyLIFT Suspension does not recommend the combined use of suspension lifts, body lifts, or other lifting 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 off-road 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 lifting of their vehicle before the purchase and installation of any ReadyLIFT products.

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

All raised vehicles 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 insure 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.

ReadyLIFT 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 lift is a base figure. Final ride height dimensions may vary in accordance to original vehicle ride height. Always measure the vehicle ride height prior to beginning installation.

This suspension system was developed using a 37"x12.5" tire with 18" x 8.5" wheel and a offset of 0. If wider tires are used, offset wheels may be necessary and trimming may be required. Factory wheels can be used but are not recommended with tires over 11.5" wide.

ReadyLIFT strongly recommends a matching spare wheel and tire for Wrangler applications. The stock spare rim can be run in an emergency - exercise extreme caution under stock spare tire operating conditions. Please note that, if running the spare factory tire, it is done for short distances and a speed not to exceed 45mph or damage to differentials may occur.

## **IMPORTANT NOTE:**

To run the max tire size of 37" tall, the front bumper wings on the Rubicon may need to be removed for full articulation under full lock turning. Rear tires may rub the lower plastic body mount guard under full articulation.

### **VEHICLE HEIGHT MEASUREMENTS**

	<b>Driver Before</b>	<b>Driver After</b>	<b>Passenger Before</b>	<b>Passenger After</b>
<b>Front</b>				
<b>Rear</b>				

# **BILL OF MATERIALS**

<b>Front Spring</b>	<b>2</b>
<b>Front Control Arm</b>	<b>2</b>
<b>Front Bump Stop</b>	<b>2</b>
<b>Front Adjustable Track Bar</b>	<b>1</b>
<b>10" Sway Bar End Link Kit</b>	<b>1</b>
<b>Driver Sway Bar End Link Spacer</b>	<b>1</b>
<b>Rear Spring</b>	<b>2</b>
<b>Rear Control Arm (69-6837 Only )</b>	<b>2</b>
<b>Rear Bump Stop</b>	<b>2</b>
<b>Rear Track Bar Bracket</b>	<b>1</b>
<b>Track Bar Bracket Nut Plate</b>	<b>1</b>
<b>Track Bar Bracket Crush Sleeve</b>	<b>1</b>
<b>Driver Rear Brake Line Bracket</b>	<b>1</b>
<b>Pass Rear Brake Line Bracket</b>	<b>1</b>
<b>E-Brake Cable Bracket</b>	<b>1</b>
<b>11" Sway Bar End Link Kit</b>	<b>1</b>
<b>Replacement Front Shock</b>	<b>2</b>
<b>Replacement Rear Shock</b>	<b>2</b>

<b>M12 x 70mm Hex Head Bolt</b>	<b>6</b>
<b>M12 C-Lock Nut</b>	<b>6</b>
<b>M12 Flat Washer</b>	<b>8</b>
<b>M12 Fender Washer</b>	<b>4</b>
<b>M14 x 80mm Hex Head Bolt</b>	<b>1</b>
<b>M14 C-Lock Nut</b>	<b>1</b>
<b>M14 Flat Washer</b>	<b>2</b>
<b>1/2" x 1.25" Hex Head Bolt</b>	<b>2</b>
<b>1/2" Flat Washer</b>	<b>2</b>
<b>3/8"- 16 x 1.75" Allen Head Bolt</b>	<b>2</b>
<b>3/8" Serrated Flange Nut</b>	<b>2</b>
<b>1/4" 20 x .75" Hex Head Bolt</b>	<b>7</b>
<b>1/4" C-Lock Nut</b>	<b>7</b>
<b>1/4" Flat Washer</b>	<b>14</b>



***Before starting installation:*** ReadyLIFT Suspension highly recommends that the installation of this product be performed by a professional mechanic with experience working on and installing suspension products. Professional knowledge and skill will typically yield the best installation results.

## **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.

**\*\*\*Parts shown in red for picture clarification only\*\*\***

ReadyLIFT 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.

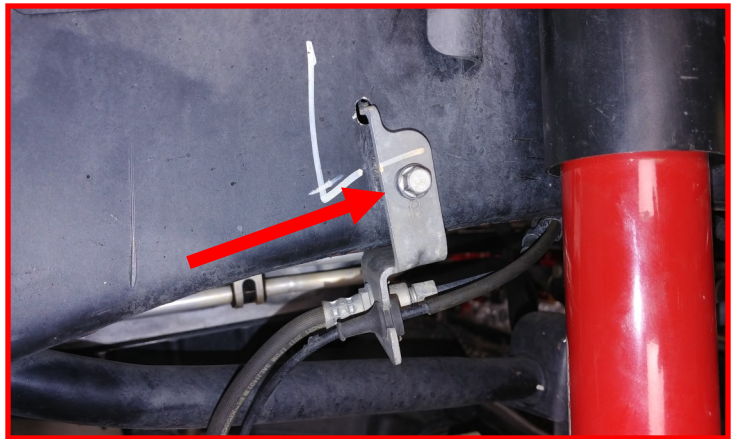
Otherwise, park vehicle on a clean flat surface and block the rear wheels for safety. Engage the parking brake.

Disconnect the vehicle power source at the ground terminal on the battery.

Lock the steering wheel in the straight forward 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. Remove the front wheels. Starting with the front of the vehicle, all steps are to be completed on both sides of the vehicle unless instructed.

Remove the front brake line bracket at the frame rail.



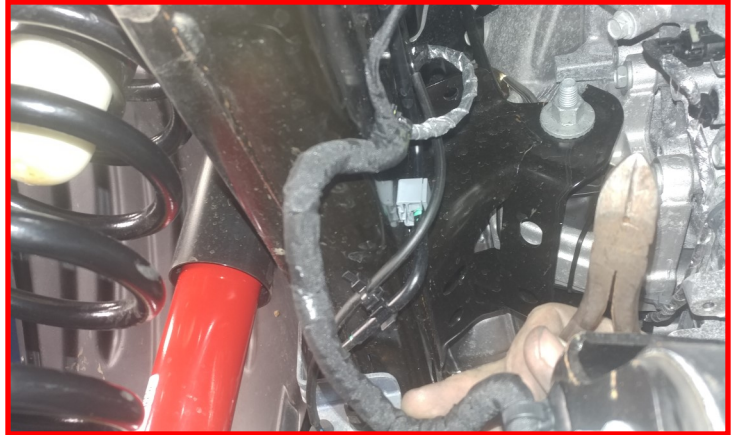
Remove the front brake line bracket at lower control arm.



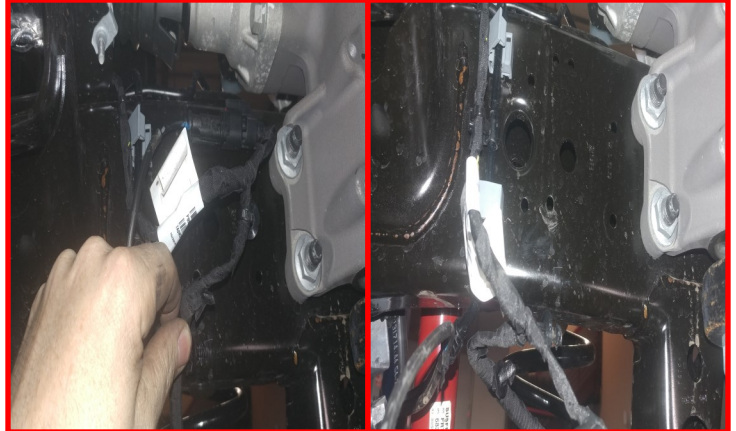
**ELECTRIC LOCKER EQUIPPED MODELS ONLY:** Locate the passenger side locker harness at the frame rail. Cut the zip tie holding the "service loop" allowing the harness to extend.



**ELECTRIC LOCKER EQUIPPED MODELS ONLY:** Shown with harness extended.



Locate the wire harness on the driver side frame rail and pull all clips out of the frame. Allow the harness to hang out of the way.



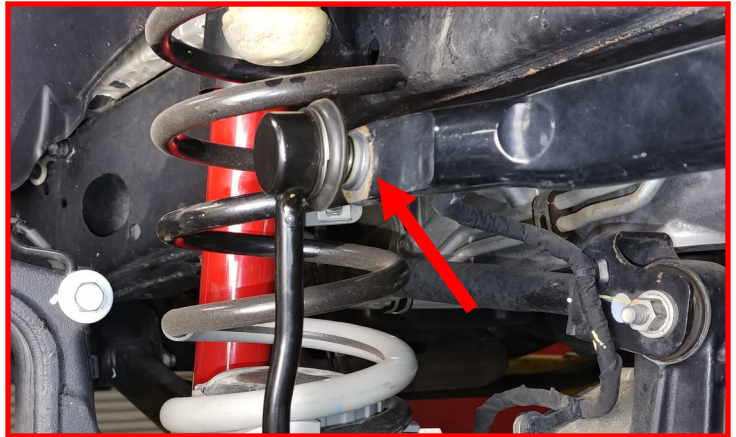
Using a suitable cutting device, clip the outside "Christmas tree" nipple off the electrical connector.



Remove the sway bar end links from the axle. Save the hardware.



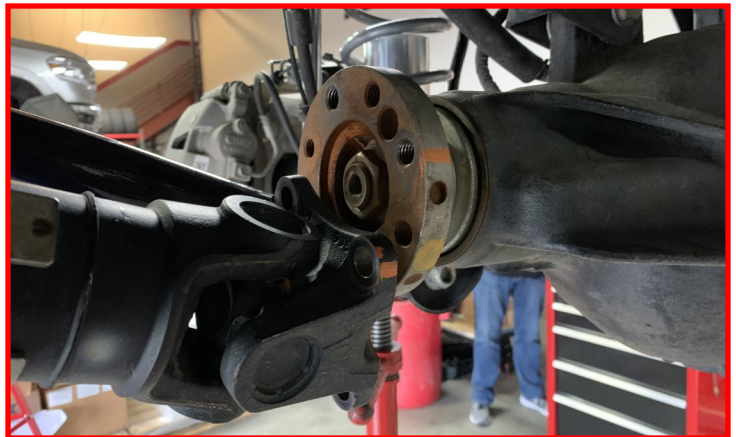
Remove the front sway bar end link from the sway bar. Discard as it will not be re-used.



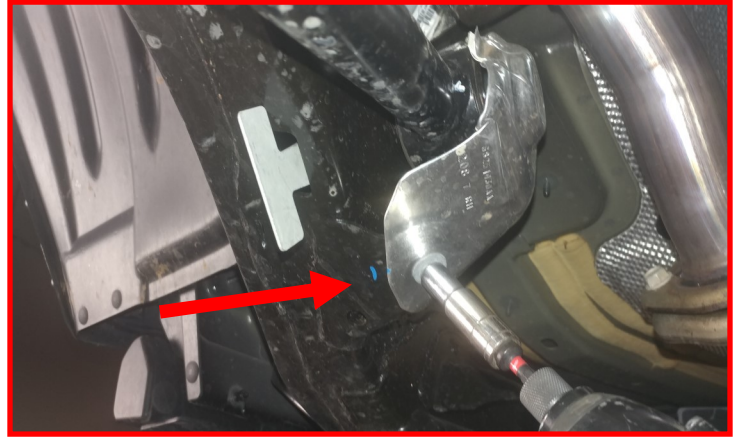
Mark the front drive shaft to pinion flange for reinstallation later.



Remove the front drive shaft from differential.



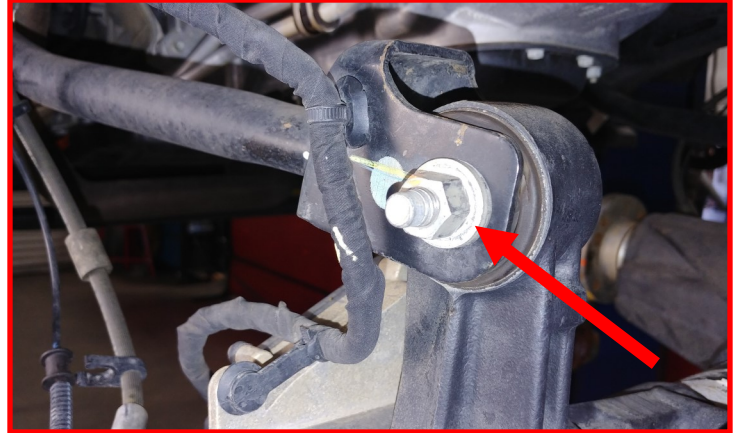
Remove the **lower heat shield bolt** from the front upper control arm pocket at the frame. Retain hardware for reassembly.



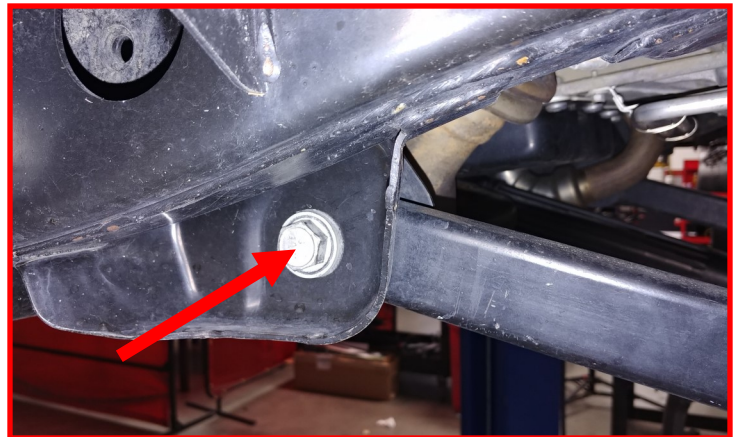
Gently bend the heat shield out of the way and loosen but do not remove the **front upper control arm bolts**.



Loosen but do not remove the **front upper control arm bolts** at the axle.

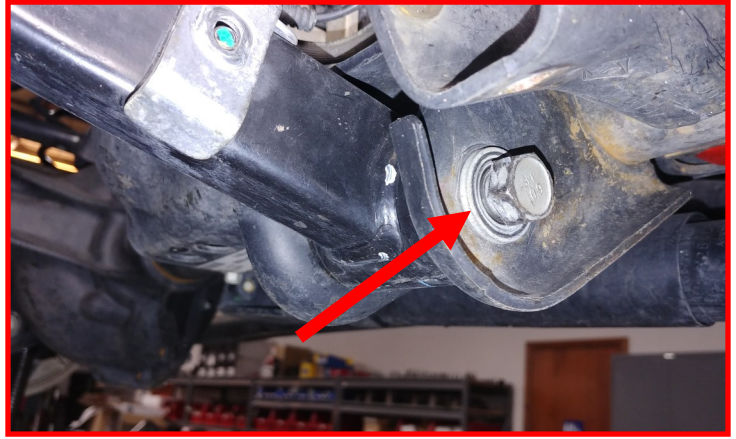


Loosen the **front lower control arm hardware** at the frame. Do not remove at this time.

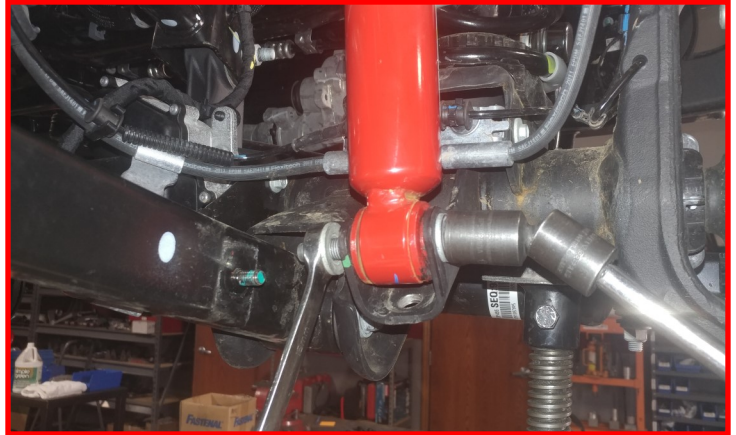




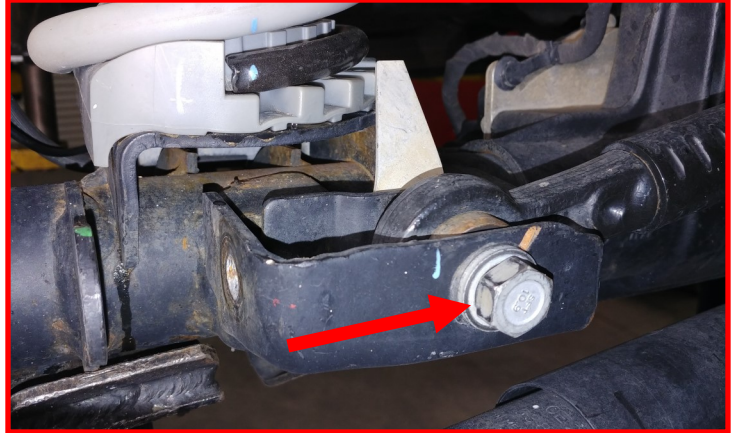
Loosen the **front lower control arm hardware at the axle**. Do not remove at this time.



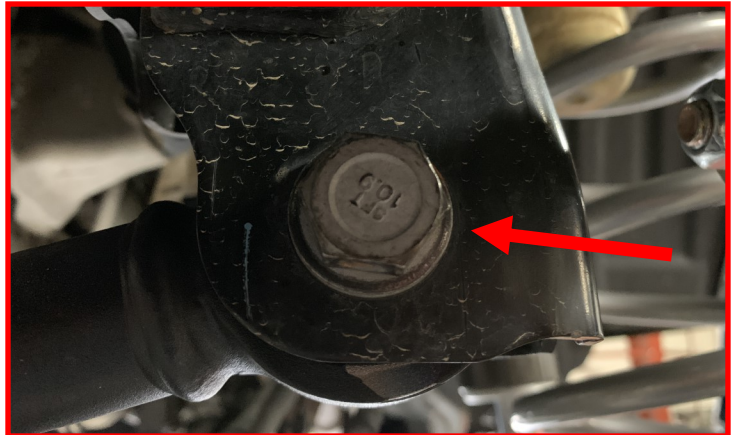
Remove the front shock from vehicle at this point and discard. Retain factory hardware.



Remove the **front track bar hardware at the axle**. Be sure to retain factory hardware.

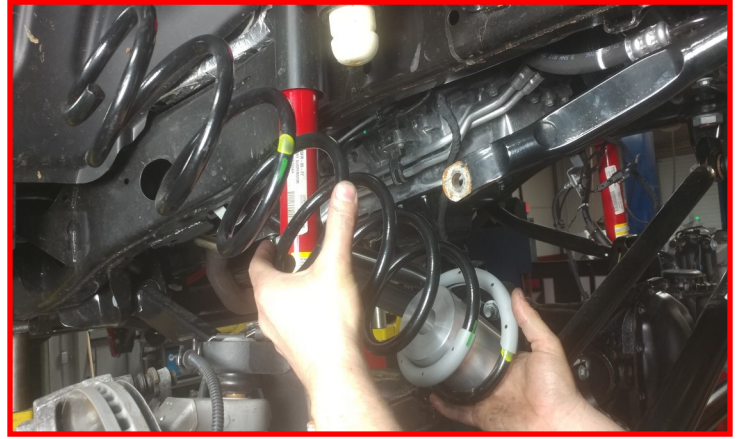


Remove the **front track bar bolt at the frame**. Retain factory hardware. Remove complete track bar assembly from vehicle and discard.



Lower the axle enough to remove the springs.

CAUTION: Make sure to not over extend the brake lines or any other electrical harnesses.



\*\*\*Parts shown in red for picture clarification only\*\*\*

Locate replacement adjustable track bar. Before installation insure the length is set. Should measure 34.25" Center to center



Install adjustable front track bar using the factory hardware.

With track bar installed be sure to verify the rod end jam nut is tight.

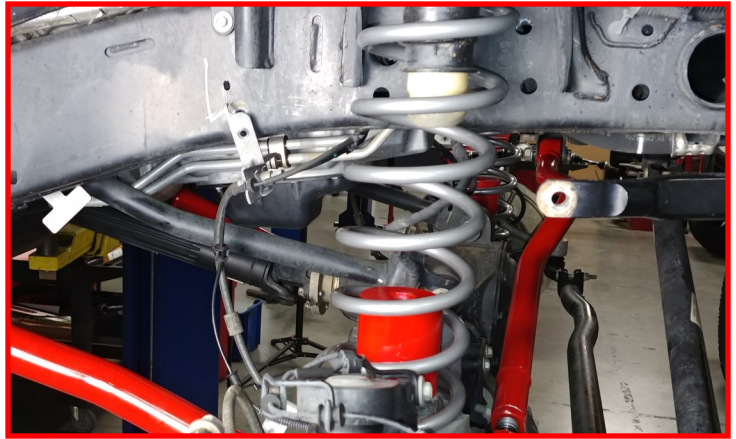


Remove factory front lower control arms at this time and discard.

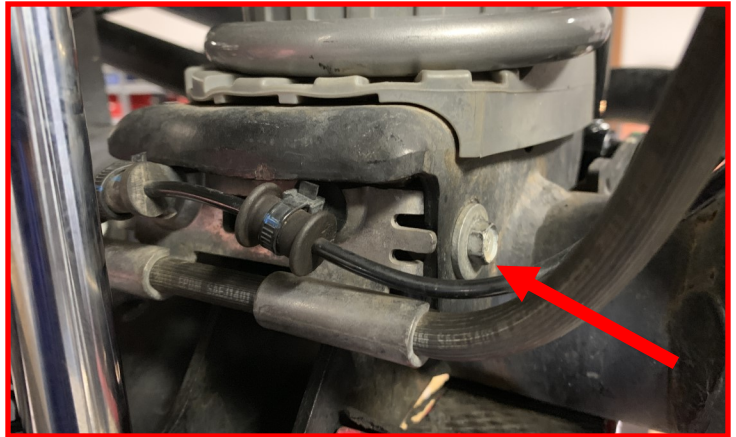
Using the factory hardware, install the replacement lower control arms with the bend to the center of the vehicle and the brake line bracket to the front of the vehicle. Do not tighten at this time.



Insert the front bump stop **3/8" x 1.75" Allen bolt** into the front bump stop. Insert the front bump stop into the coil spring. Install the coil spring and bump stop at the same time to the frame and axle making sure to clock the spring so that the dead end of the coil sits in the lock on the axle pad. Raise the axle enough to hold the springs in place.

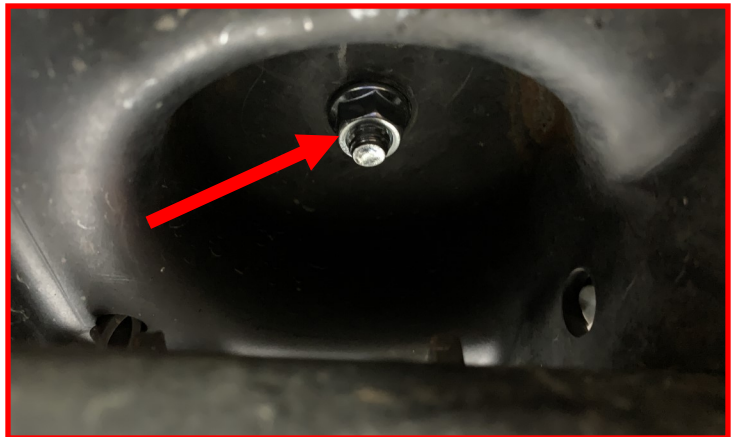


Remove the **brake line bracket** on the axle for access to install the bump stop nut on the passenger side for bump stop.



Install the provided **3/8" serrated flange nut** to the 3/8" Allen bolt from the underside of the spring perch. Torque to **35 ft-lbs**.

With bump stop hardware torqued install the brake line bracket on the axle.

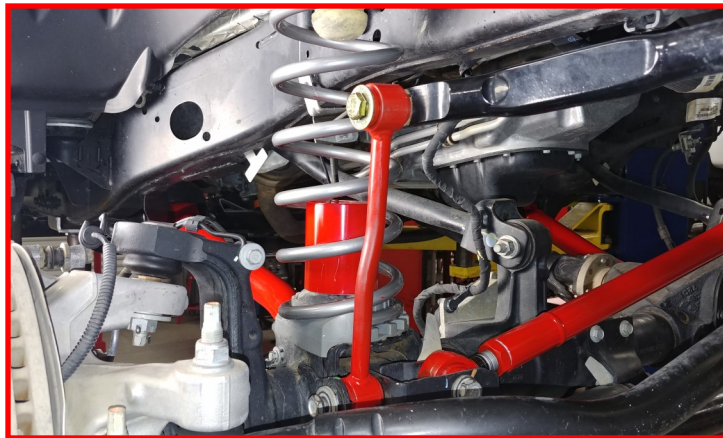


Using the manufactures suggested install instructions, Install replacement performance shocks using factory hardware on top frame mount and provided **M12 bolts, washers and nuts**.

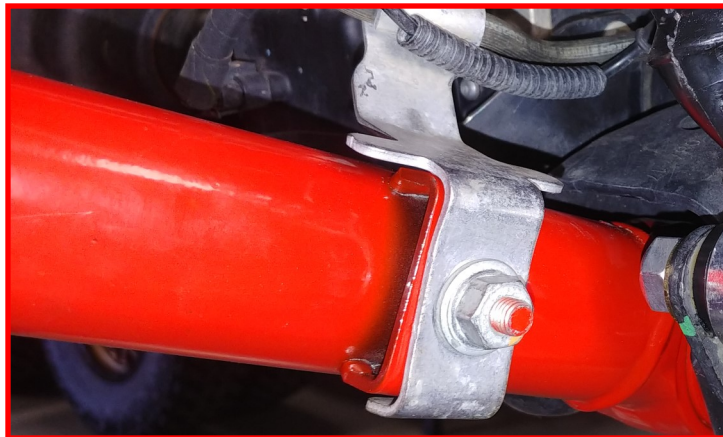


Install the 10" replacement end links to the sway bar using supplied 1/2" bolt, fender washer, flat washer and nut on the sway bar. Be sure to install the fender washer to the outside of the end link. Install the axle side of end link using factory hardware. Torque to 45 ft-lbs.

Note: Driver side replacement end link uses a supplied 1/4" thick spacer between the axle and the end link.



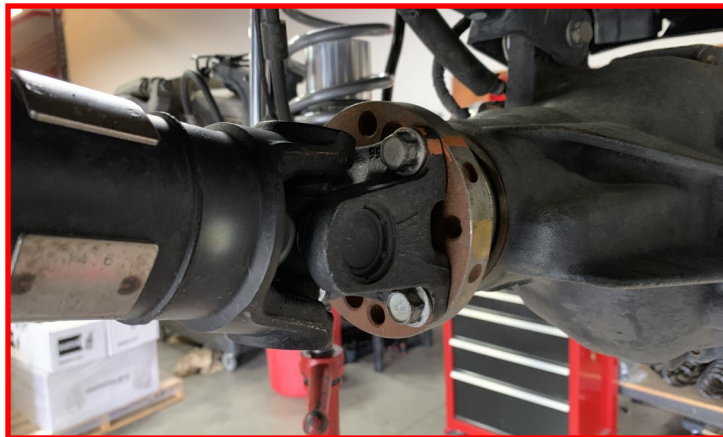
Install the brake line brackets to the lower control arm and frame rail using the factory hardware. Torque to 5 ft-lbs.



Install the electrical connector that was previously cut to the lower hole in the frame rail. The rest of the harness will hang.



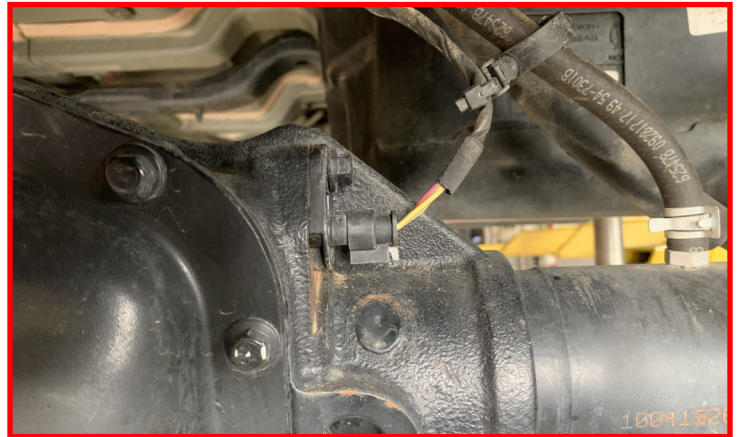
Install the front drive shaft making sure to line up the previous mark using a drop of thread locker and factory hardware. Torque to 40 ft-lbs.



Install the wheels and lower the vehicle to the ground. Torque the lug nuts to the wheel manufacturer specs. Jounce the vehicle a few times to settle the suspension to the new ride height. Torque the upper control arms to **110 ft-lbs**, lower control arms and track bar hardware to **135 ft-lbs**, and shock and sway bar end link hardware to **50 ft-lbs**. Reinstall the upper control arm heat shields. Torque to **5 ft-lbs**.

Park vehicle on a clean flat surface and block the front wheels for safety. Raise the rear of the vehicle and support with jack stands at each jack point indicated by the service manual. Remove the rear wheels.

**ELECTRIC LOCKER EQUIPPED MODELS ONLY:** Disconnect the electrical connector on the differential. Remove all the plastic clips from the e-brake cable up to the frame cross member.



**ELECTRIC LOCKER EQUIPPED MODELS ONLY:** Remove the two harness clips from the frame cross member. You can clip these off the wire harness but is not necessary.



Remove the e-brake cable clamp from the body. Let cables hang.

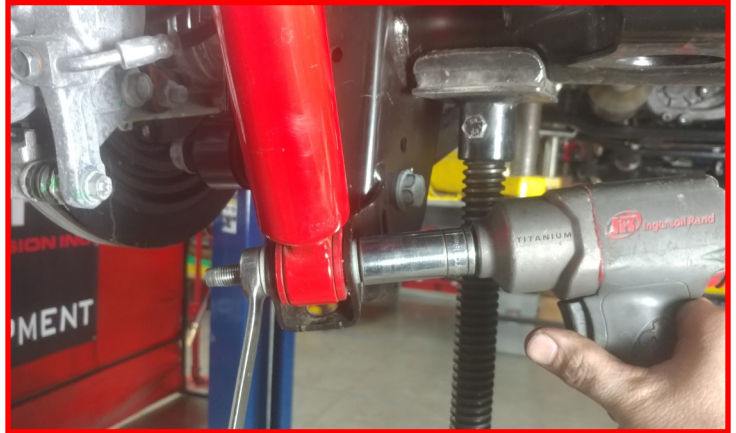
**CAUTION:** Make sure they are not resting on the locker harness that lays across the frame cross member. When lowering the axle, these cables will become taut and can pinch on the harness.



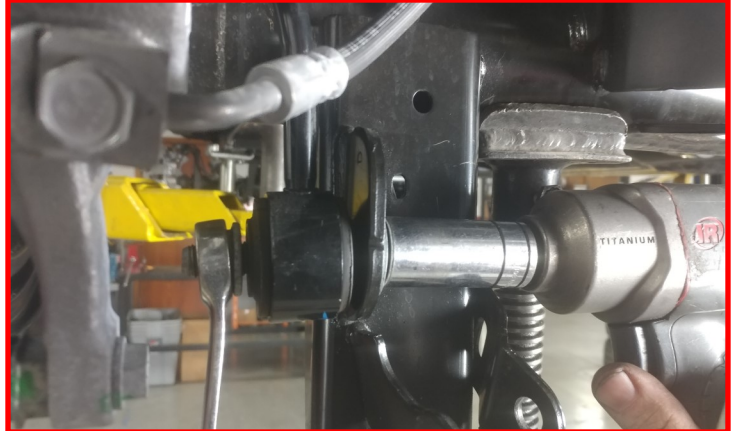
Remove the rear brake line bracket at the axle and frame rail.



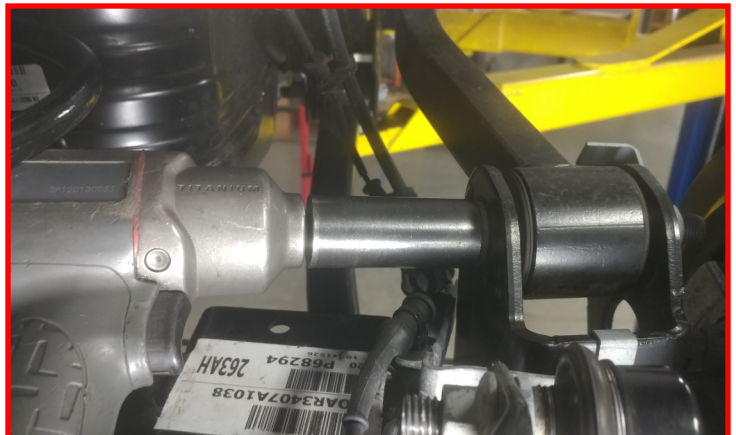
Remove the rear upper and lower shock bolts. Remove factory shock from vehicle and discard. Retain factory hardware.



Remove the rear lower sway bar end link from the axle and sway bar and discard. Retain factory hardware.



Loosen but do not remove the rear upper control arms at the axle and frame.

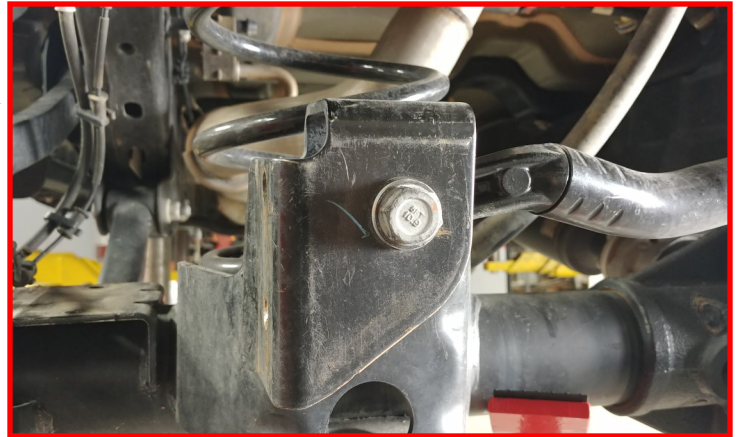


Remove the rear lower control arms at the axle and frame. Retain factory hardware.

Note: If installing 2-arm kit (69-6836/ 69-6846). Loosen but do not remove lower control arms.



Loosen the rear track bar at the axle and frame. Remove axle bolt only and let track bar swing out of the way.



Lower the axle enough to remove the stock spring and rubber isolator.



\*\*\*Parts shown in red for picture clarification only\*\*\*

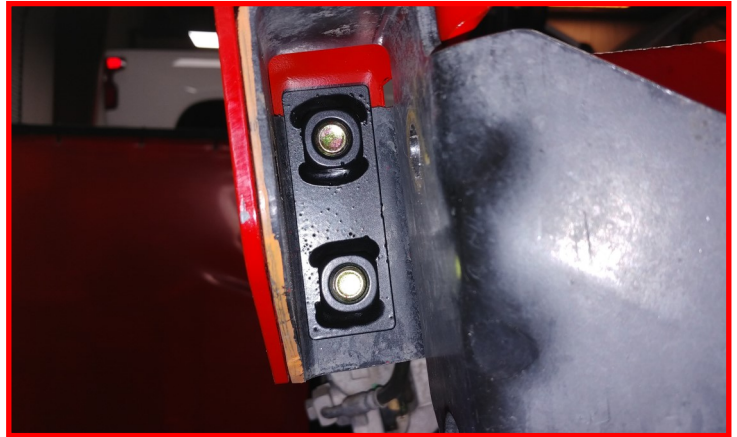
Install the rear bump stop extensions to the axle using the provided 1/4" x .75" bolts, washers, and nuts. Torque to 5 ft-lbs.



Locate **replacement rear track bar bracket** and slide over factory axle bracket. Mark center for two 1/2" holes on the outboard side of bracket. Using the appropriate tools drill 1/2" holes through the factory bracket.



Install provided **nut plate** to backside of drilled holes. Install supplied **1/2" bolts and washers** through drilled holes into nut plate being sure to apply thread locker before tightening. Torque to **90 ft-lbs.**



Slide rear **track bar bracket crush sleeve** into factory track bar bracket and install provided **14mm bolt, washers and locking nut** through factory track bar bracket bolt hole. Tighten and torque to **110 ft-lbs.**



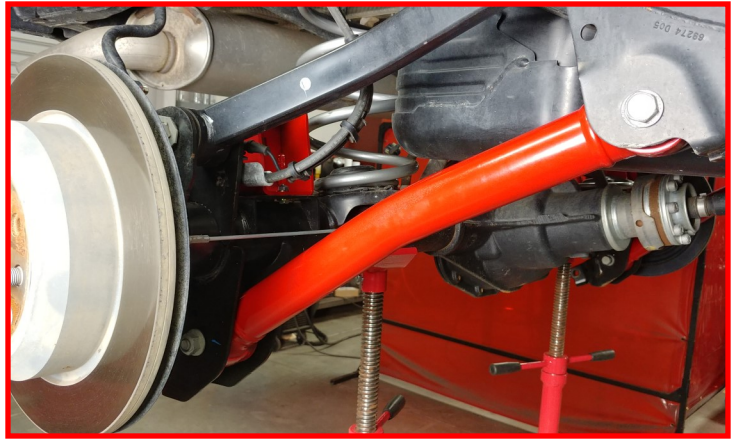
Install track bar into replacement track bar bracket using factory hardware. Do not tighten at this time.



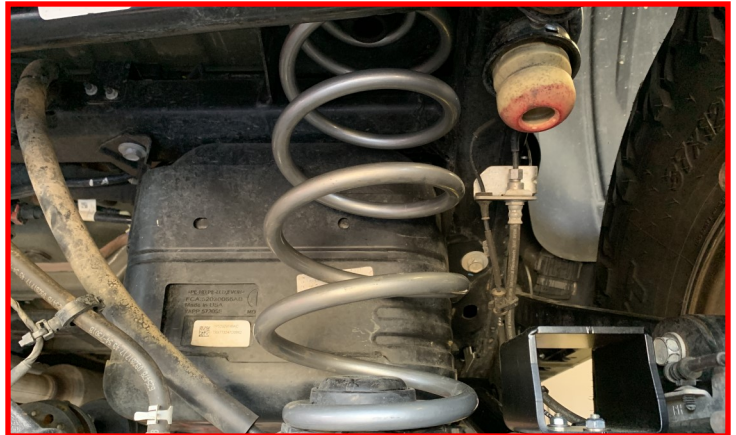


Note: If installing 2-arm kit (69-6836/ 69-6846). Disregard this step and continue on to the next step.

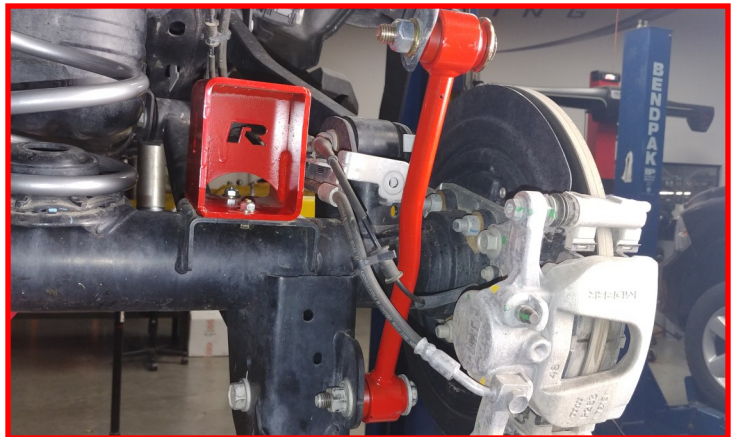
Using the factory hardware, install the replacement lower control arms with the bend facing up. Do not tighten at this time.



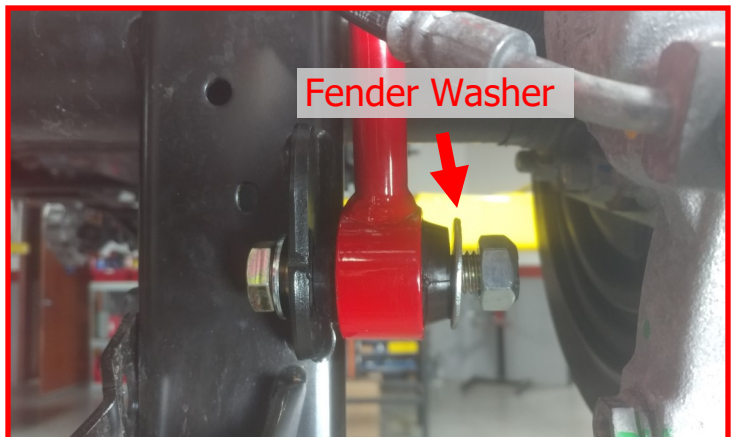
Install the replacement spring using the factory isolator. Raise the axle to hold the springs in place.



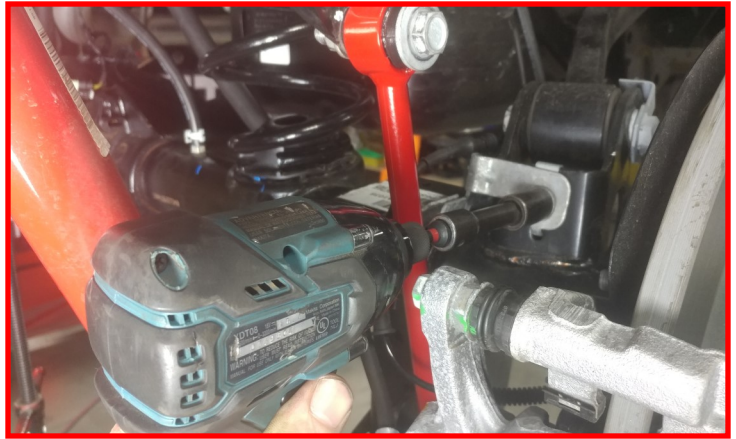
Install the 11" replacement sway bar end link to the axle using the provided 1/2" bolt, fender washer, flat washer and nut.



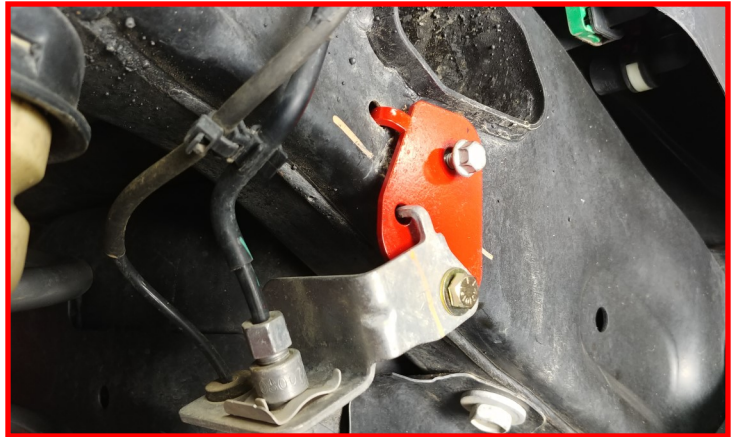
Make sure to have the fender washer to the outside of the end link. Do not tighten at this time.



Install the brake line bracket to the axle using the **factory hardware**. Torque to **5 ft-lbs**.



Install the ReadyLIFT brake line bracket to its corresponding side using the provided **1/4" x .75" bolt, washers and nut**. Gently rotate/bend the metal brake line until you can line up the locking tab and bolt hole. Install using the **factory hardware**. Torque all to **5 ft-lbs**.



Install the ReadyLIFT e-brake cable to the body using the **factory hardware** and the factory e-brake bracket to the ReadyLIFT bracket using the provided **1/4" x .75" bolt, washers, and nut**. Torque all to **5 ft-lbs**.

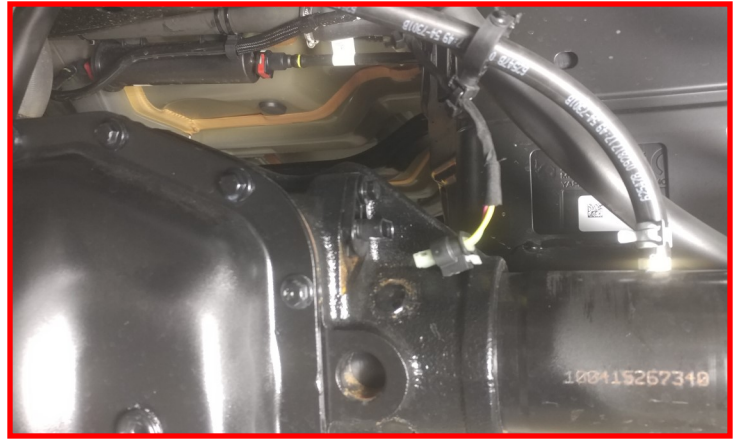


Using the manufactures suggested install instructions, install replacement performance shocks using factory hardware.



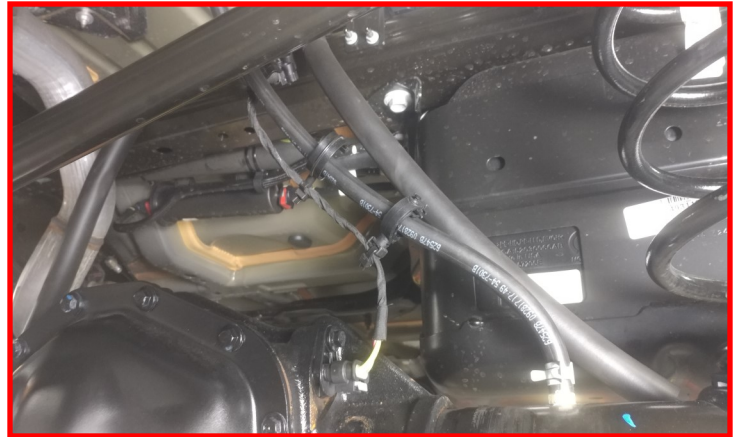
**ELECTRIC LOCKER EQUIPPED MODELS**

**ONLY:** Connect the electrical connector to the pumpkin and run the harness next to the diff vent tube.



**ELECTRIC LOCKER EQUIPPED MODELS**

**ONLY:** Clip all remaining clips to the diff vent tube.



Install the wheels and lower the vehicle to the ground. Torque the lug nuts to the wheel manufacturer specs. Jounce the vehicle a few times to settle the suspension to the new ride height. Torque the upper control arms to **110 ft-lbs**, lower control arms and track bar hardware to **135 ft-lbs**, and shock and sway bar end link hardware to **50 ft-lbs**.

Reconnect the vehicles power source at the ground terminal.

Pre-set the toe / straighten the steering wheel before driving to avoid any dash lights from setting. Have the alignment set to factory specs by a reputable alignment shop.



**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 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.

**RECHECK ALL HARDWARE FOR PROPER TORQUE VALUES AFTER 500 MILES, AND THEN PERIODICALLY AT EACH SERVICE INTERVAL THERAFTER.**

### **Vehicle Handling Warning**

Increasing the height of your vehicle raises 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 factory specifications. It is recommended that your vehicle alignment be checked after any off-road 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.