

# **READYLIFT<sup>®</sup>**

**SUSPENSIONS**

## **69-1935 Ram 1500 3.5" 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.**

**(877) 759-9991**

**MON-FRI 7AM-4PM PST**

**OR**

**EMAIL: [support@readylift-ami.COM](mailto:support@readylift-ami.COM)**

**WEBSITE: [ReadyLIFT.COM](http://ReadyLIFT.COM)**

**\*\*Please retain this document in your vehicle at all times.\*\***

### **Limited Lifetime Warranty**

This unique product warranty proves our commitment to the quality and reliability of every product that ReadyLIFT manufactures. The ReadyLIFT product warranty only extends to the original purchaser of any ReadyLIFT 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 ReadyLIFT items; bushings, bump stops, ball joints, tie rod ends, heim 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 ReadyLIFT has a 90 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 ReadyLIFT packaging. Please call **(877) 759-9991** to get an RGA# for any return. Customer is responsible for shipping costs back to ReadyLIFT. **Returns without RGA# will be refused.** Contact ReadyLIFT directly about any potentially defective parts prior to removal from vehicle.

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

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*A lifted vehicle may have different headlight aim performance. ReadyLIFT recommends marking and recording the headlight beam position before kit installation and then adjusting, if necessary, the headlamps to the same height settings after kit installation. Set the vehicle on a level surface 10' to 15' from a solid wall or garage door. (This is a general distance with some manufacturers requiring different distances.) Note the top height of the low beam's bright spot, the top of the most intense part of the beam, for driver and passenger side. Height may vary from side to side. Repeat this procedure and adjust after lift kit is installed. Adjust if the aim is off by turning the adjusters gradually (a quarter of a turn) and looking to see where the new alignment falls. It may be easier to block one headlamp while adjusting the other. Consult the owner operation manual for procedures to adjust headlights - many automakers offer headlight aiming specs. Some states have their own specifications when it comes to headlight aim, so it's best to follow those rules when aligning headlights.*

This suspension system was developed using a 35" x 12.5" tire with 20" x 9" wheel and a offset of +18. 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.

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

# **IMPORTANT NOTE:**

Factory measurement of the vehicle in front can not exceed 22.5" when measured from the center of the wheel to the edge of the fender line above. If vehicle measures over 22.5" do not proceed with installation.

Failure to measure vehicle prior to installation may lead to suspension and driveline component failure.

Make sure to have any and all electronic systems calibrated as indicated by the manufacturer for the features of your vehicle. This includes but not limited to the steering wheel angle sensors, yaw sensors, cruise control, lane departure, etc.

The recommended tire and wheel specs are based off proper alignment specs to make sure the tire clears the back fender well. Trimming of the plastic may be necessary to run other wheel and tire combinations. It is up to the end user to verify all clearances before driving.

It is recommended to trial fit one wheel and tire combination for clearances.

## **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>				
<b>Headlamps</b>				

# **BILL OF MATERIALS**

<b>DESCRIPTION</b>	<b>QTY</b>
<b>FRONT STRUT EXTENSION</b>	<b>2</b>
<b>PRE-LOAD SPACER</b>	<b>2</b>
<b>UPPER CONTROL ARM (DRIVER)</b>	<b>1</b>
<b>UPPER CONTROL ARM (PASSENGER)</b>	<b>1</b>
<b>BALL JOINT NUT SPACER</b>	<b>2</b>
<b>REAR SPRING SPACER</b>	<b>2</b>
<b>REAR BUMP STOP</b>	<b>2</b>
<b>HARDWARE PACK</b>	<b>1</b>

## **WARNING**

***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. If you need an installer in your area, please contact ReadyLIFT Suspension Customer Service to find one of our "Pro-Grade" 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.

**\*\*\*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.



Remove the brake line bracket at the frame rail. Gently pull the metal brake line through the frame rail to gain slack for the rest of the install. Do not bend the line or disconnect the rubber line.



Remove the ABS wire harness from the upper control arm and frame rails. Cut the Christmas tree clip off the harness. Do not cut the ABS wire.



Remove the outer tie rod from the knuckle.



Strike the tie rod boss on the knuckle with a dead blow hammer to dislodge the taper.



Remove the upper ball joint from the knuckle.



Strike the ball joint boss with a dead blow hammer to dislodge the taper.



Remove the axle nut.



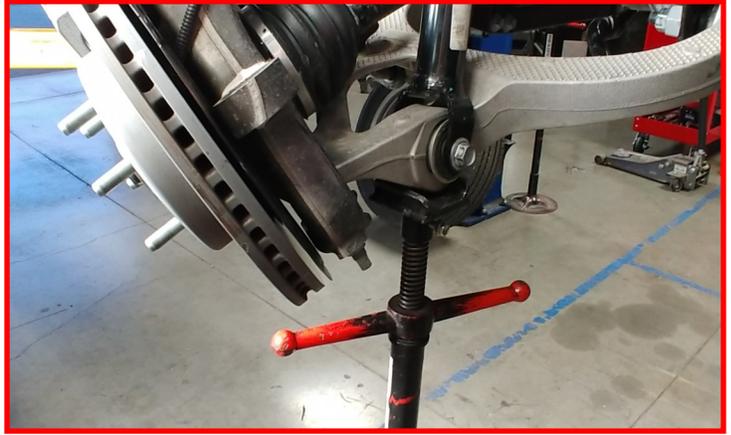
Remove the sway bar from the frame.



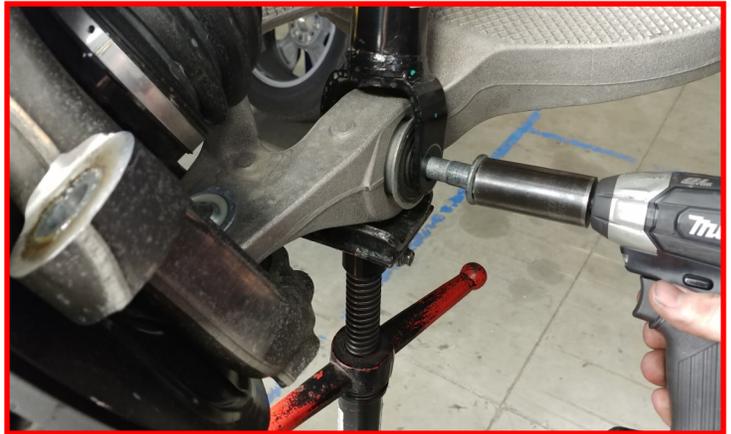
Let the sway bar hang out of the way.



Support the lower control arm with a suitable jack.

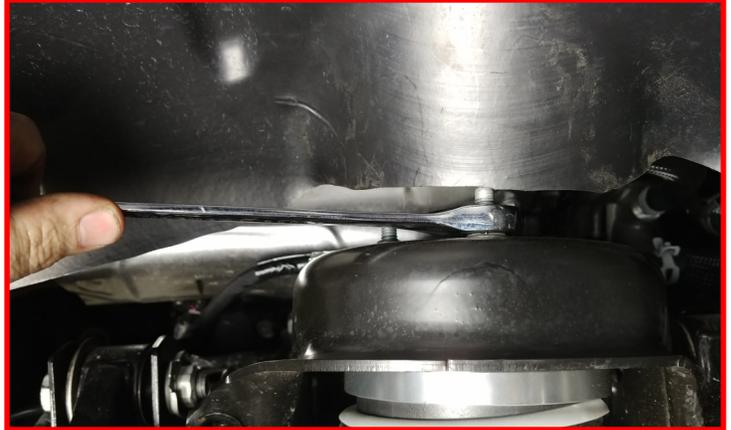


Remove the lower strut mounting hardware. Lower the control arm down while supporting the knuckle. Be mindful of the ABS and brake lines to not over extend them.



Remove the upper strut hardware from the frame.

Retain factory hardware.



Remove strut from the frame.



Remove the upper control arm from the frame.

**CAUTION: THE SPRING IS UNDER EXTREME PRESSURE AND CAN CAUSE BODILY INJURY AND/OR DEATH IF HANDLED IMPROPERLY.**



Place the strut into a spring compressor. Mark the top hat to spring location for re-assembly. Take care as the strut is under extreme pressure. Relieve the tension on the spring and remove the top hat.

**CAUTION: TAKE SPECIAL CARE WHEN DISASSEMBLING AND ASSEMBLING THE STRUT ASSEMBLIES. DAMAGE TO THE STRUT CAN OCCUR IF DONE INCORRECTLY.**



Picture shows the order of assembly for the strut: **1.** Factory top hat and rubber isolator, **2.** ReadyLIFT pre-load spacer, **3.** Factory dust shield, **4.** Factory plastic spring lock.



Install the ReadyLIFT preload spacer onto the dust shield/ spring seat. Install the factory top hat/rubber isolator 180 degrees from the previously made marks for orientation. This will orient the spring in its original location to prevent the spring from bowing. When tightening, make sure the top of the strut shaft is fully seated into the top hat. Torque the top strut hardware to **30 ft-lbs.**



Locate the ReadyLIFT top strut extension and install using the **factory hardware**. Torque to **30 ft-lbs**.

**NOTE:** Some model years feature longer factory strut mounting studs and will need to be trimmed before installation into vehicle. Using an appropriate tool, trim top of stud off to ensure they do not protrude past the top of the top strut extension.



Install the appropriate side control arm to the frame rail using the **factory hardware**.



To determine the correct side arm, there is a plugged hole on the back tube of the near the rearmost pivot. Be sure this faces the rear of the vehicle.

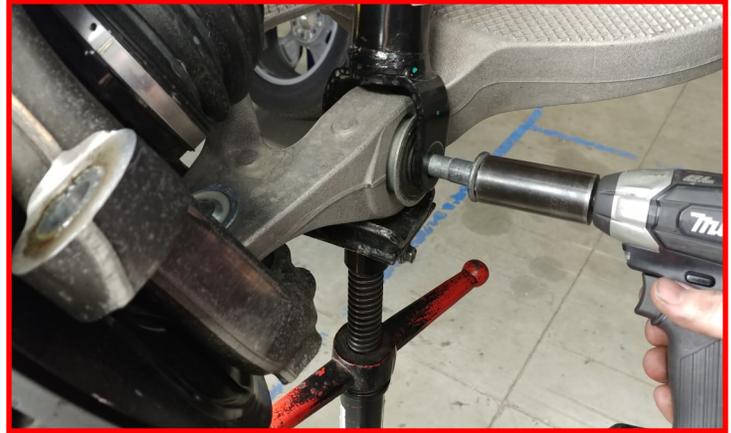
Torque the upper control arm hardware to **125 ft-lbs**



Install the strut to the frame rail using the provided **M10 - 1.25 flange nut**. Do not tighten at this time.



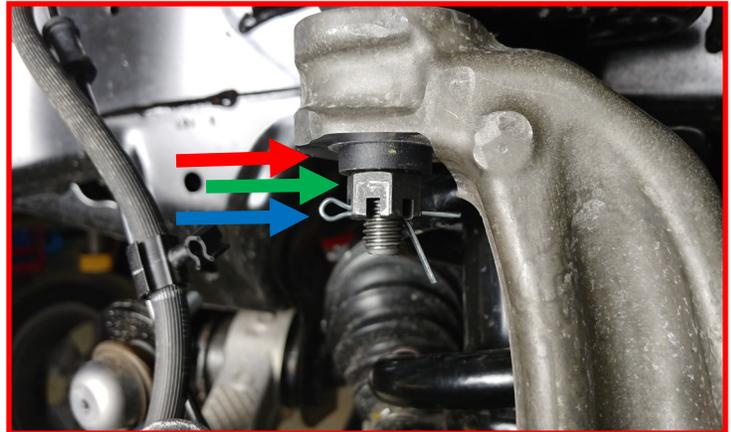
Raise the lower control arm up until you can install the **lower strut hardware**. Do not tighten at this time.



Attach the upper control arm ball joint to the knuckle using the provided hardware. Install the **nut spacer**, then the **castle nut**.

Torque the castle to **65 ft-lbs**.

Install the provided **cotter pin**. Use a suitable grease gun, fill the upper ball joint with grease until the boot just starts to expand.



**Note: Do not over grease. Over grease can cause pre-mature wear.**

Install the axle nut. Before tightening the axle nut ensure the splines are fully engaged in the hub assembly.

Torque the axle nut to **185 ft-lbs**.



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



Route the ABS wire harness along the rubber brake line. Use a zip tie to attach to the rubber brake line.



Install the sway bar to the frame rail using the **factory hardware**. Torque to **35 ft-lbs**.



Install the front wheels and lower the vehicle to the ground. Torque the lug nuts to the wheel manufacturers specs.

Jounce the vehicle to get the suspension to settle to the new ride height.

Torque the upper control arm hardware to **125 ft-lbs**, the upper strut hardware to **30 ft-lbs**, the lower strut hardware to **150 ft-lbs**.

Center the lower control arm cam bolts and torque to **125 ft-lbs** initial torque (final torque to be done by alignment technician).

## **Rear Install**

Block the front wheels for safety and raise the rear of the vehicle using a suitable jack.

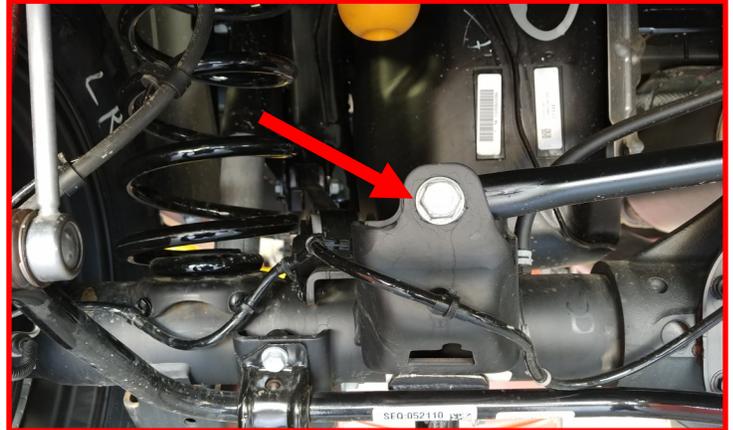
Place jack stands on the frame rail in front of the lower trailing arms.

Support the axle with a suitable jack and remove the wheels.

Loosen but do not remove the upper and lower trailing arm hardware.



Loosen but do not remove the track bar hardware at the frame and axle ends.



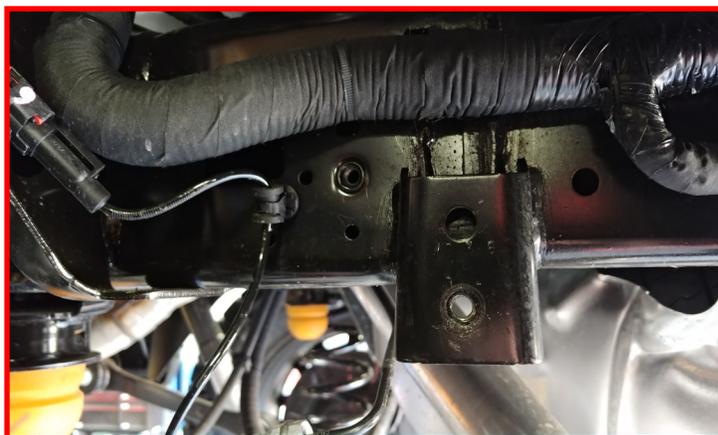
Remove the lower shock hardware.



Locate the upper sway bar end link and brake line bracket mount on the frame rail.



Remove the upper sway bar end link and brake line bracket at the frame rail.



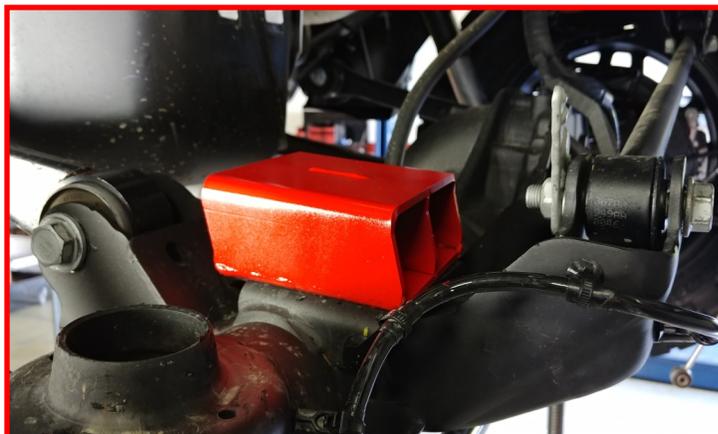
Lower the axle down enough to remove the springs and rubber isolator.



The rubber isolator has two locating nipples on it. Use a suitable cutting device, remove these flush with the isolator.



Install the ReadyLIFT bump stop extension to the axle pad using the provided **1/4" bolts, washers, and nuts**. Torque to **5 ft-lbs**. The bump stop extensions are universal for both sides of the axle.



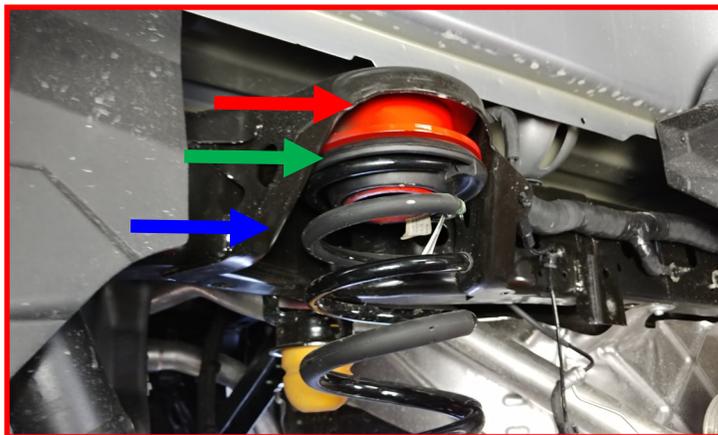
The driver side you will use the bolt hole on the left inside hole of the bump extension. This will line up with the hole in the axle pad. The forward mounting hole is slotted to line up with the axle pad hole. Once the inside bolt is lined up, install the front bolt, washer, and nut.



The passenger side you will use the bolt hole on the right inside hole of the bump extension. This will line up with the hole in the axle pad. The forward mounting hole is slotted to line up with the axle pad hole. Once the inside bolt is lined up, install the front bolt, washer, and nut.



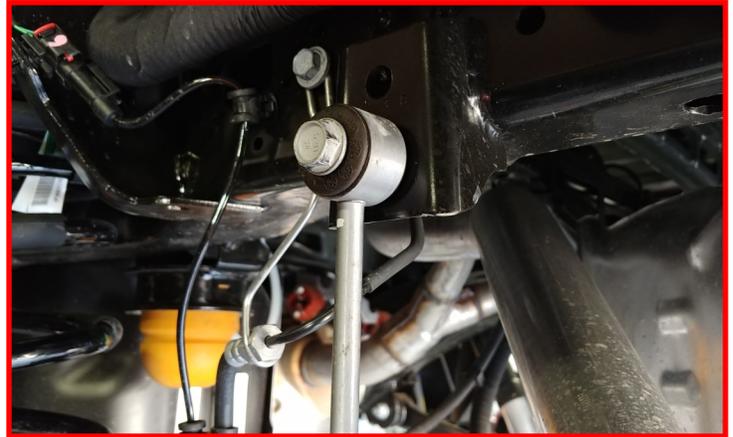
Install the ReadyLIFT **spring spacer, factory isolator** and then **spring** to the frame and axle.



Raise the axle enough to line up the lower shock hardware. Install the shock using the **factory hardware**. Do not tighten at this time.



Install the sway bar end links to the frame rail using the **factory hardware**. Do not tighten at this time. Install the brake line brackets to the frame rail using the **factory hardware**. Torque to **5 ft-lbs**.



Install the rear wheels and lower the vehicle to the ground. Torque the lug nuts to the wheel manufacturers specs.

Jounce the vehicle to get the suspension to settle to the new ride height.

Torque the upper and lower trailing arm hardware to **145 ft-lbs**, the lower shock hardware to **45 ft-lbs**, the sway bar end link hardware to **35 ft-lbs**, and the track bar hardware to **125 ft-lbs**.

Connect the vehicles power source at the negative ground terminal.

Rotate the wheels from lock to lock and verify all clearances between the tire, body, ABS, brake line and suspension components. Adjust as necessary.

Have the alignment set to the recommended specs provided on the last page of this instruction booklet by a reputable alignment shop.

Make sure to have any and all electronic systems calibrated as indicated by the manufacturer for the features of your vehicle. This includes but not limited to the steering wheel angle sensors, yaw sensors, cruise control, lane departure, etc.

# **WARNING**

**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 recommended 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.

## **RECOMMENDED ALIGNMENT SPECS**

	<b>Driver</b>	<b>Passenger</b>	<b>Tolerance</b>	<b>Total / Split</b>
<b>Camber</b>	<b>+0.15</b>	<b>+0.15</b>	<b>+/- 0.5</b>	<b>+0.0</b>
<b>Caster</b>	<b>+3.0</b>	<b>+3.0</b>	<b>+/- 0.5</b>	<b>+0.0</b>
<b>Toe</b>	<b>+.10</b>	<b>+.10</b>	<b>+/-0.05</b>	<b>+.20</b>