

# **READYLIFT**<sup>®</sup>

**SUSPENSIONS**

## **66-39151 GM 1500 Leveling 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.\*\***

### **READYLIFT "NO HASSLE" PRODUCT WARRANTY**

This unique "no hassle" product warranty proves our commitment to the quality of every product the ReadyLIFT produces. ReadyLIFT product warranty only extends to the Original Purchaser of any ReadyLIFT product. If it breaks, we will give you a new part.

#### **READYLIFT "NO HASSLE" WARRANTY PROCEDURES**

Any ReadyLIFT products containing missing or defective components will be covered under warranty by ReadyLIFT. Please call 800-549-4620 to initiate a warranty claim. Rest assured our customer service team will urgently address the matter and expedite the replacement parts. In the event of a defective product, ReadyLIFT may request a return of the defective product (at ReadyLIFT's expense) so the quality team can analyze the nature of the defect. Returning defective product will not delay the replacement part delivery.

ReadyLIFT leveling kit, block kits, and lift kit products are NOT intended for off-road abuse. Any abuse or damage as a result of off-road use voids the warranty of the ReadyLIFT product. Exception: ReadyLIFT Jeep SST and Terrain Flex Lift Kits are designed for normal off-road use to compliment the Jeep vehicle's off-road capability. All Jeep Lift Kit products are covered under warranty when used in recreational off-road environments.

Warranty does not apply to discontinued, clearance or outlet products. Wearable components including but not limited to, shocks, ball joints, heim joints, bushings, and steering extensions, are covered for up to 1-year. Labor, installation, surcharges or any other applicable fees from the original purchase are non-refundable. ReadyLIFT is not responsible for any consequential damage to the vehicles.

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.

This suspension system was developed using a 33x11.50-20 tire with 20" x 9" 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.

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:**

This vehicle has fixed 4 piston calipers and require a concave style spoke designed wheel for clearance.

MAX 33x11.50-20 on 20x9 0 offset

Minor trimming to felt liner may be required on some applications.

GMC Sierra 1500's have narrower diameter fender well openings than Chevys. Some trimming may be required depending on the tire design.

Due to the length of the strut and angle of the strut tower, a pry bar or an assistant may be necessary to align the lower strut into place to install the strut extension hardware.

### VEHICLE HEIGHT MEASUREMENTS

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

# **BILL OF MATERIALS**

<b>Front Strut Spacer</b>	<b>2</b>
<b>M10-1.5 flange nut (short)</b>	<b>6</b>
<b>Active Ride Control Bracket</b>	<b>2</b>
<b>M6-1.0 x14mm Button Head Allen Bolt</b>	<b>2</b>
<b>M6-1.0 Nyloc Nut</b>	<b>2</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. 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.

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. **Vehicles with secondary start/stop batteries need to be disconnected as well.**

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 jack point indicated by the service manual. Remove the front wheels. All steps are to be completed on both sides of the vehicle unless instructed.

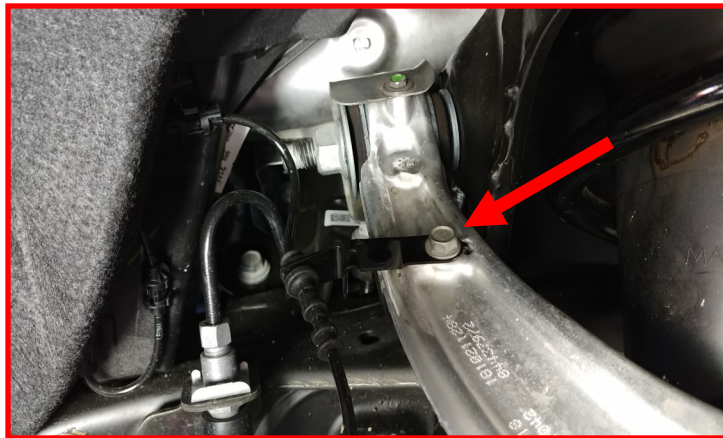
Using a 35mm socket, loosen the axle nut, but do not remove it.



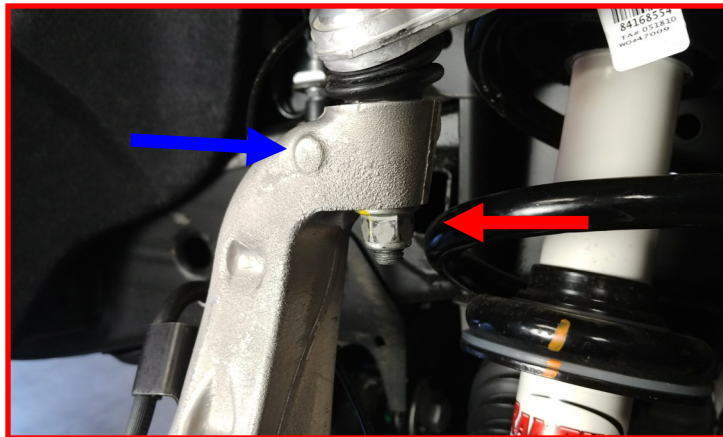
Using a dead blow sledgehammer, strike the end of the axle until it moves back and forth freely. Remove axle nut at this time, be sure to retain the axle nut for later installation.



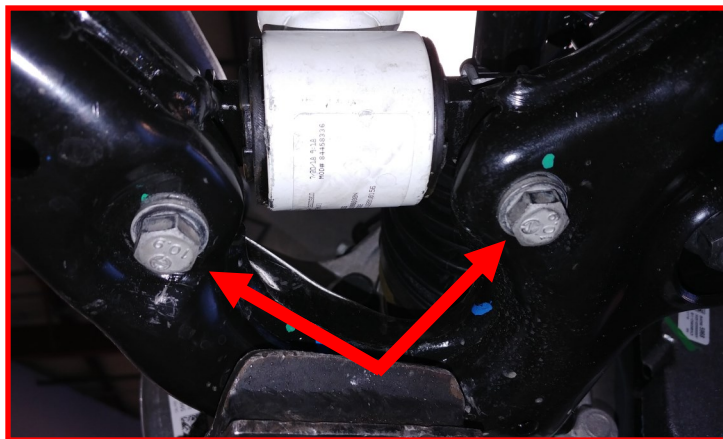
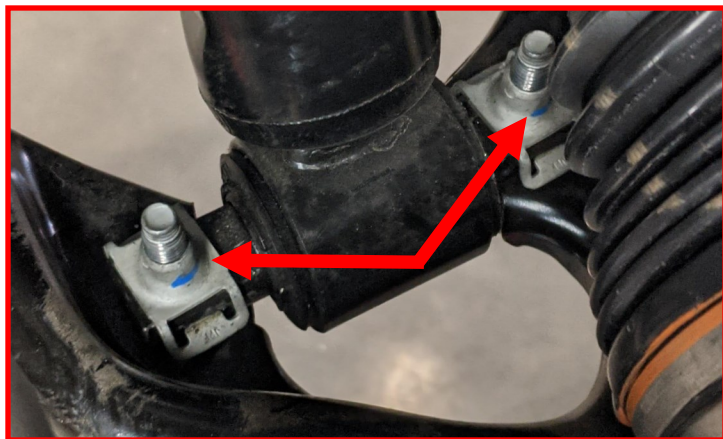
Place a suitable jack under the lower control arm. Remove the **ABS bracket** from the upper control arm. Retain factory hardware.



Loosen the upper **control arm to knuckle nut** but do not remove. Using a dead-blow sledgehammer, strike the upper **ball joint boss** to loosen the taper joint. When taper joint is loosened, remove nut and let knuckle hang. Retain factory hardware.

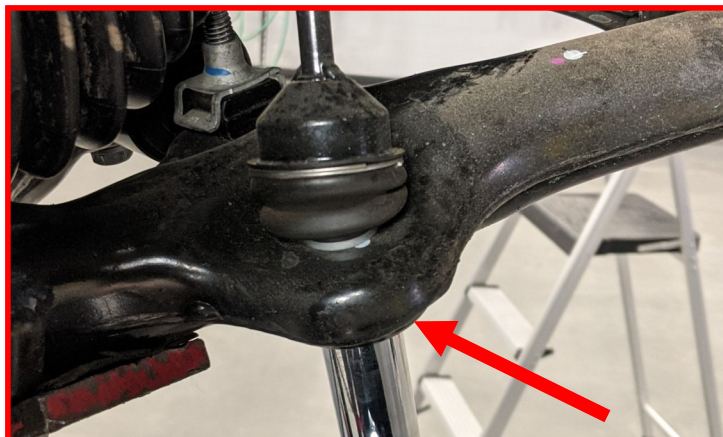


Loosen but do not remove the lower control arm mounting hardware. Locate the **lower shock bolts** and remove. The shock may "pop" outboard when removed due to the angle of the control arms.



Remove **lower sway bar end link nut**. Retain factory hardware.

Lower control arm should now be able to move freely enough to remove the shock assembly from the vehicle.



Remove the nuts that connect the shock top mount to the frame of the truck. These nuts can be discarded.



Remove shock to lower control arm bolts. Retain factory hardware.

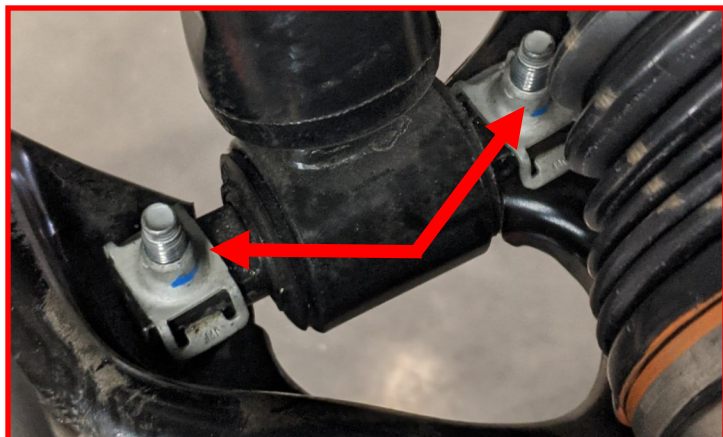


Remove shock assembly from vehicle and install ReadyLIFT spacer to the shock top mount.

Re-install the shock assembly into the truck with the spacer installed. Wait to install the top mount nuts until the lower bolts are installed.



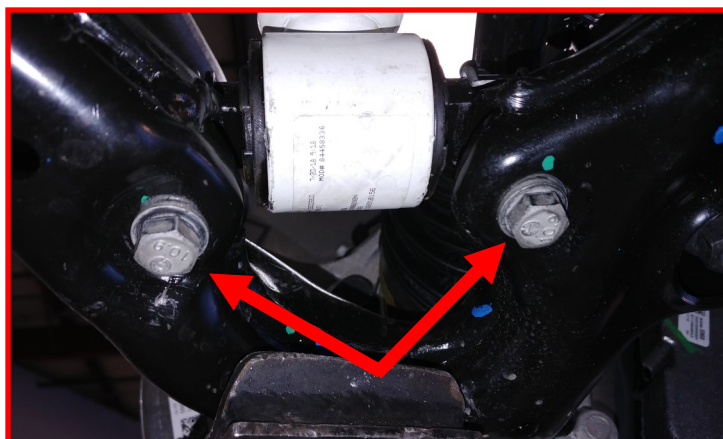
Re-install the **shock to lower control arm bolts**. Do not tighten. Using the jack under the lower control arm, raise the arm up until the shock studs are protruding through the frame holes in the shock tower.



Install the provided **M10x1.5 short nuts** to the shock studs. Torque nuts to **35 ft-lbs**.



Torque **shock to lower control arm bolts** to **45 ft-lbs**.



Install the factory nut on the sway bar end link. Torque **sway bar end link lower nut** to **45 ft-lbs**.

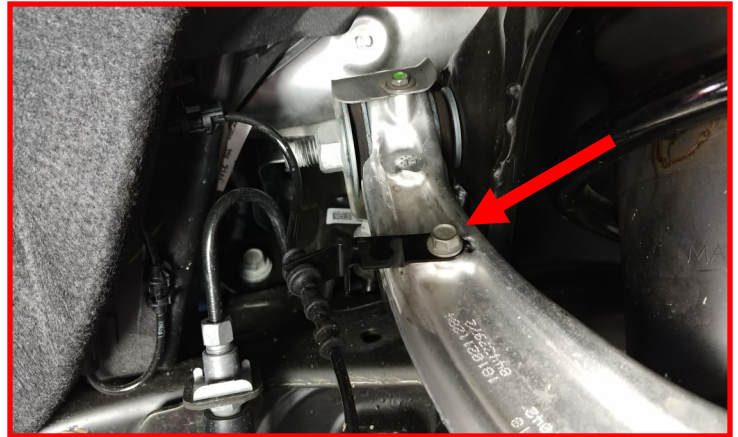




Using the factory nut, install the upper control arm into the knuckle. Torque **upper control arm to knuckle nut** to **65 ft-lbs**.



Install the brake line bracket from the upper control arm using the factory hardware. Torque to **5 ft-lbs**.



Install the wheels and lower the vehicle to the ground. Torque the lug nuts to the wheel manufacturer's specs.

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

Torque the upper control arm hardware to **150 ft-lbs**, center the lower cam bolts and torque to **165 ft-lbs** (final torque to be done by the alignment technician). Have the alignment set to the recommended specs on the last page of this instruction booklet by a reputable alignment shop.

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, land departure, etc.

**ADDENDUM:** following instructions and bracket only necessary if vehicle includes ride control sensor.

Locate the ride control linkage that is attached to the ball stud on the upper control arm.



Remove the **ride control linkage** from the ball stud on the control arm.

**Note:** When removing the linkage be sure to pull straight out.



Remove the **ball stud** from the upper control arm. Retain the ball stud.



Install the **ride control relocation bracket** on the upper control arm using the supplied **M6 button head allen bolt**.

Torque to **5 ft-lbs**.



Install the ball stud in the rear hole of the **ride control relocation bracket** using the supplied **6MM lock nut**.

Torque to **5 ft-lbs**.

**Note:** Ball stud should be installed in the hole closest to the control arm pivots.



Install the **ride control linkage** on the ball stud by pushing the linkage back onto the ball stud.





**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**

Front	Driver	Passenger	Tolerance	Total / Split
Camber	+0.0	+0.0	+/- 0.5	+0.0
Caster	+3.0	+3.3	+/- 0.5	-0.3
Toe	+0.05	+0.05	+/- 0.05	+0.10