69-8620 2020 Honda Pilot 2.0" SST Lift Kit

IF your ReadyLIFT® 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
WEBSITE: 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 Ready-LIFT 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.

⚠WARNING

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.

Important Notes

This suspension system was developed using a 265/60R18 tire with 18” x 9” wheel and a offset of +35. 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 9.5” 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.

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 oth-er. 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 alighting headlights.

Pre Installation Measurements

It is imperative that you record the following measurements and factory components. ReadyLIFT test and records as much data from each application as possible. Vehicle manufactures may change components or add models with different options. By recording and not exceeding the fender to hub center that ReadyLIFT call out will ensure the lift on your vehicle is correct. This measurements and components will effect the completion of this lift kit. Failure to do so may result in over lifting, causing premature failure of axles, CV boots and drivetrain. Over lifting a vehicle will also result in a incorrect wheel alignment. This will wear tires incorrectly inside or outside edge. An Incorrect alignment will cause poor vehicle handling issue such as under steer. Over lifting will also cause a shock top off condition, creating poor ride quality and pops and clunks 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 lift or leveling kit and adjusting to factory position after the completion will ensure a safe and enjoyable experience.

RECORD HEAD LAMP MEASURMENTS

Driver Before	Driver After	Passenger Before	Passenger After

Factory components

VEHICLE RIDE HEIGHT MEASURMENTS
Measure from the fender edge to the axle hub center

	Factory front axle		Factory rear axle	
	ReadyLIFT target	20.50	ReadyLIFT target	21.00
	After Lifted		After Lifted	

BILL OF MATERIALS

COMPONENTS	
DESCRIPTION	QTY
Front Strut Spacer Driver	1
Front Strut Spacer Passenger	1
Front Sway Bar Link	2
Rear Strut Spacer	2
Rear Cradle Spacer	4
Cradle Bracket Spacer	4
Front Control Arm Washer	2
Hardware Pack	1

COMPONENTS	
DESCRIPTION	QTY
M12-1.25x50mm Hex Head Bolt Clear Zinc	8
M12 Flat Washer	8
M10-1.25x50mm Hex Head Bolt	6
M10 Flat Washer	6
M10-1.25 Serrated Flange Nut	6

⚠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.

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.

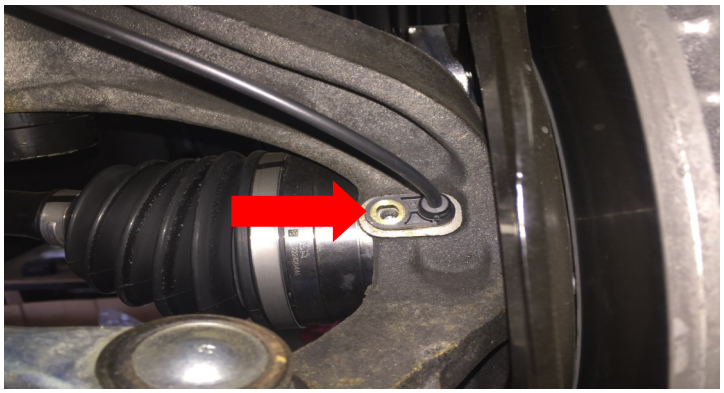
Disconnect the vehicle power source at the ground terminal on the battery.

Lock the steering wheel in the straight forward position with the column lock or steering wheel locking device.

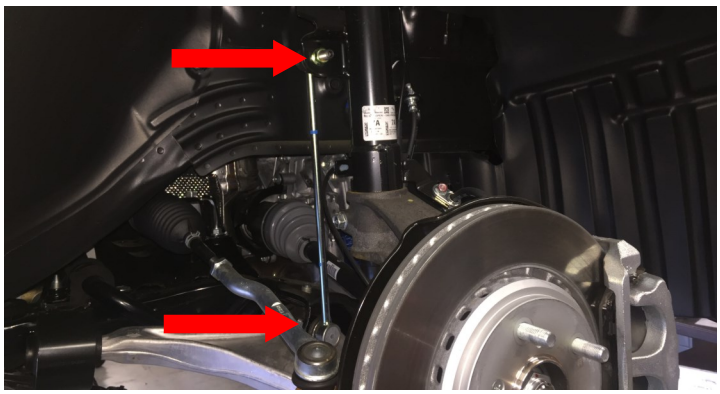
Raise the front of the vehicle and support with safety jack stands at each frame rail behind the lower control arms.

All steps are repeated for both sides of the vehicle.

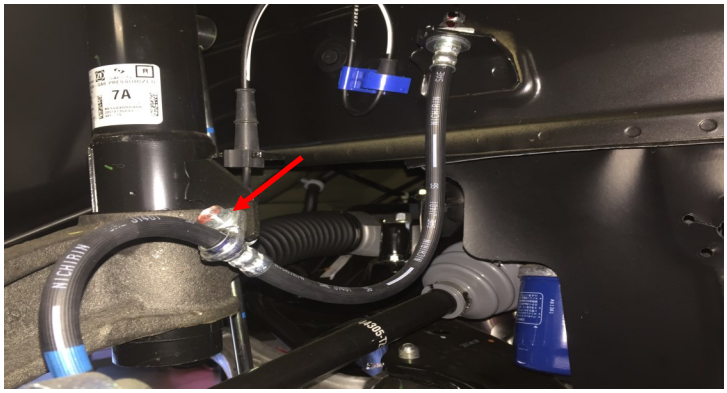
Support the lower control arm with a suitable jack. Disconnect the ABS sensor from the wheel hub, and remove the plastic clip and rubber retainer from the strut body that retains the ABS wire.



Remove the front sway bar links and discard.

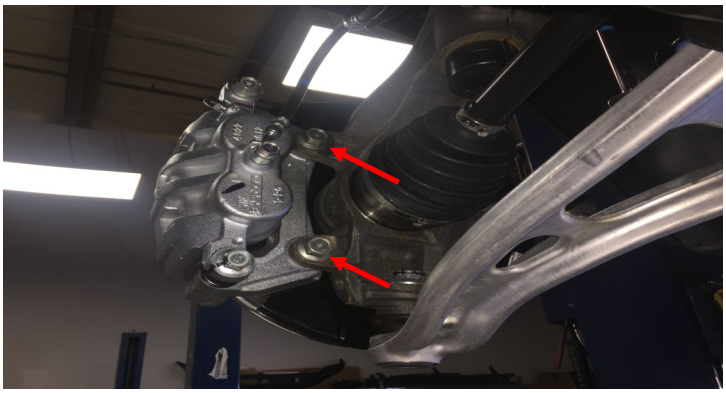


Remove the bolt securing the rubber brake hose bracket to the strut body.

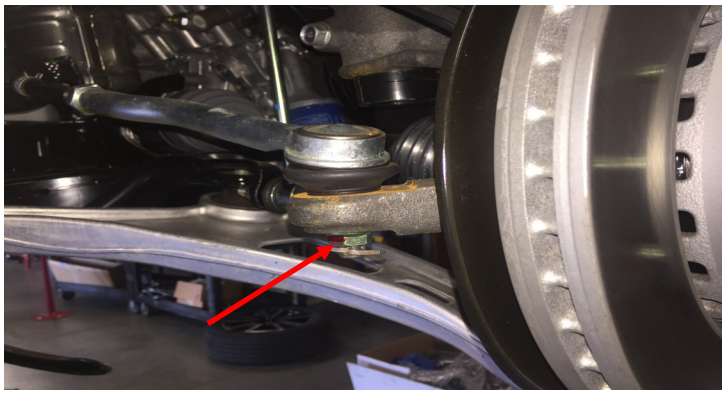


Remove the brake caliper bracket and support using a suitable hanger to prevent straining the rubber brake hose.

CAUTION: Do not hang the brake caliper from the rubber brake hose.

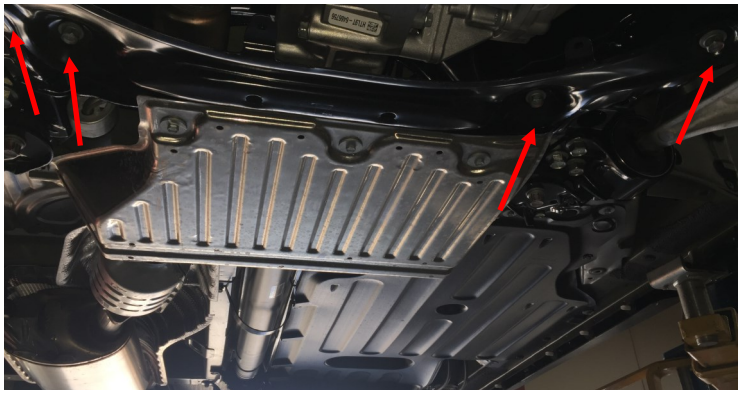


Disconnect the outer tie rod end from the knuckle. It may be necessary to strike the tie rod boss with a hammer to dislodge it.

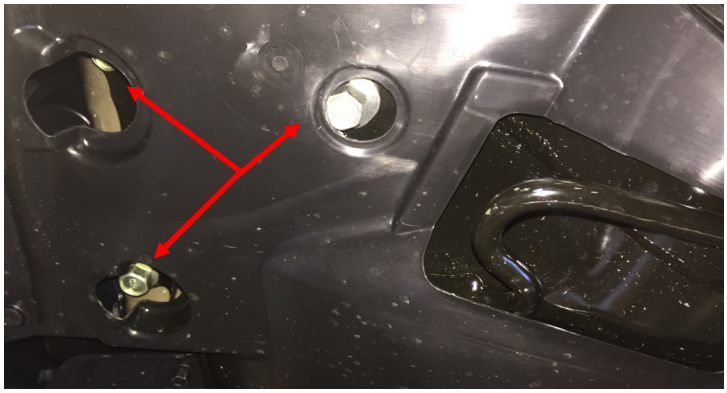


Disconnect the lower ball joint from the knuckle. It may necessary to strike the ball joint boss with a hammer to dislodge the taper.

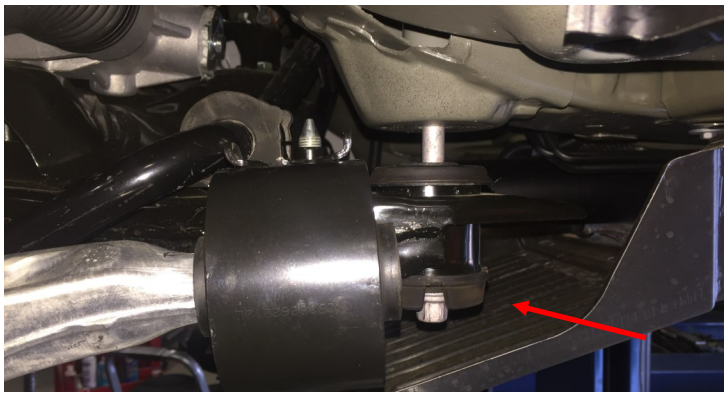
Remove the 4 bolts holding the gravel guard to the gravel guard to the suspension cradle and allow the guard to hang.



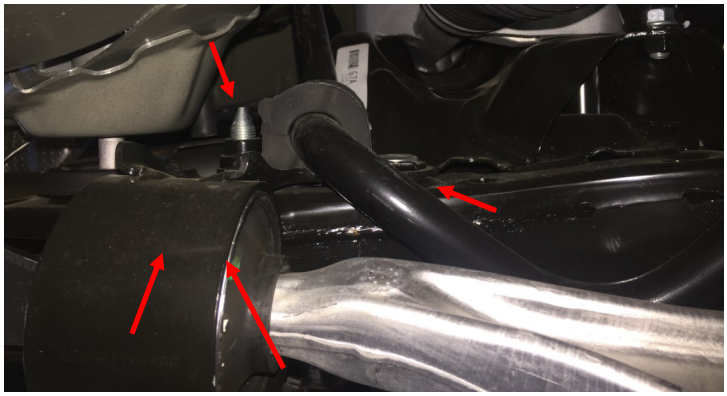
Loosen the front cradle to facilitate control arm removal and re-installation. There are 8 cradle bolts, 6 in front of the wheel hub, and 2 are behind the wheel hub. This step should be performed with the cradle supported safely. Do not remove cradle bolts or the cradle.



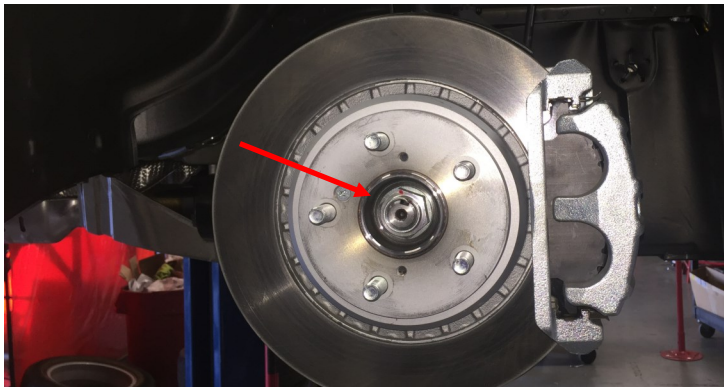
Remove each bolt individually, and partially re-thread the bolt, approximately 1/2 inch back in. Do this for each bolt individually, and allow the cradle to lower.



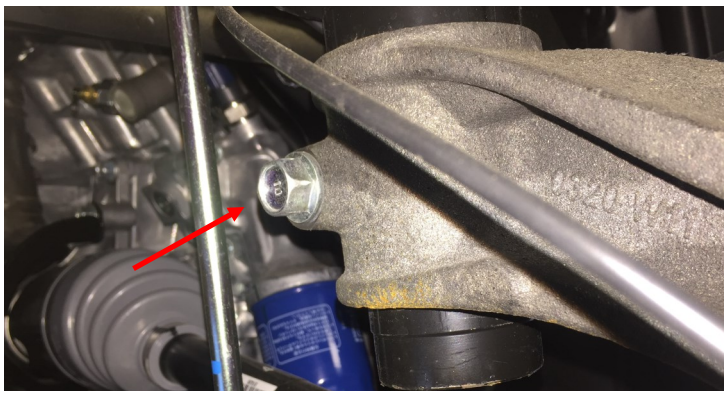
Remove the bolts holding the lower control arm to the cradle, and remove the lower control arm.



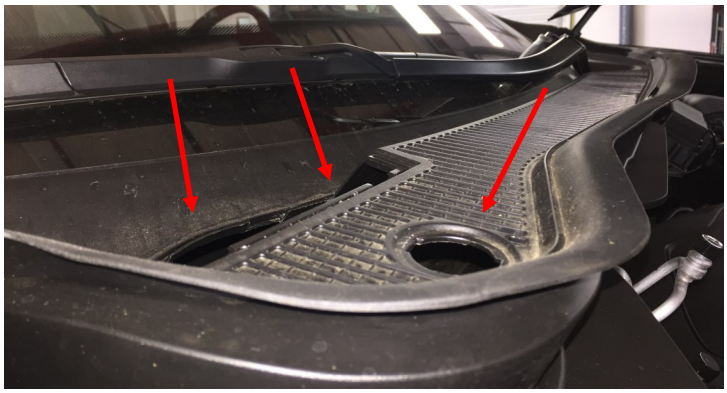
Remove the axle nut at the hub, and press the axle out of the hub.



Remove the bolt clamping the knuckle around the strut body, and remove the spindle.



Open the hood. Remove the access panels on the windshield cowl, and remove the 3 bolts holding the strut to the body. A helper is recommended to help keep the strut from falling.



Install the ReadyLIFT strut extension to the top of the strut using factory hardware.

Torque to 30 ft-lbs.

NOTE: The top of the strut extension is marked as driver and passenger, and the arrow should point to the front of the vehicle.

Raise the assembled strut into the vehicle and secure using provided hardware. Do not tighten at this time.
Install the knuckle. Simultaneously attach the CV axle and strut body to the knuckle. Raise the knuckle to the lip of the strut body and tighten enough to hold in place.

Re-install the control arm, using the provided spacer (shown in red) between the subframe and the head of the forward bolt to provide clearance between the bolt and the axle. You will need to re-install sway bar bushing bracket. Do not tighten bolts at this time.

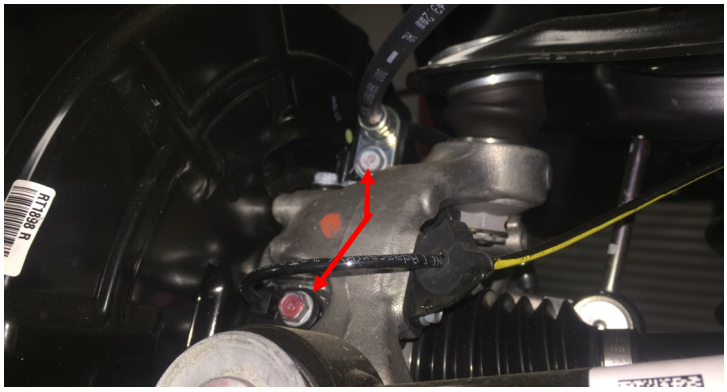
Pry down on the lower control arm to re-install the lower ball joint in the knuckle.
Torque the lower ball joint nut to 65 ft-lbs and re-install safety hardware.
Re-install the outer tie rod end, torque to 65 ft-lbs, and re-install safety hardware.
Re-install brake rotor and caliper bracket. Torque caliper bolts to 100 ft-lbs.
Re-attach ABS sensor and brake hose bracket. Torque bolts to 5 ft-lbs.

Repeat on opposite side.
Tighten cradle bolts and torque to 125 ft-lbs.
Install provided replacement sway bar links. Do not tighten at this time.
Re-attach gravel guard and torque bolts to 25 ft-lbs.

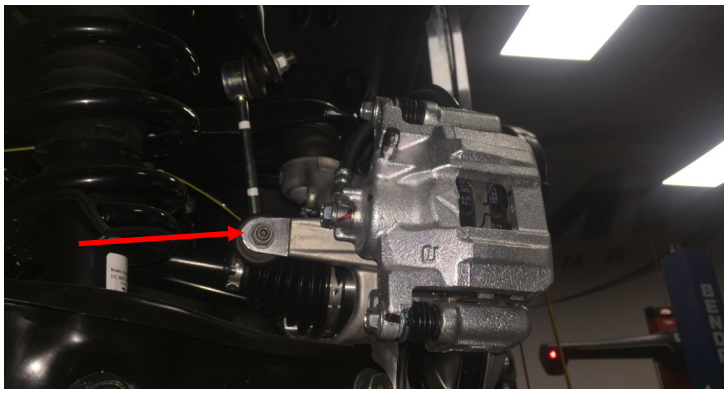
Lower the vehicle to the ground. Torque lower control arm bolts to 125 ft-lbs.
Torque knuckle clamp bolt to 100 ft-lbs.
Torque upper strut nuts to 30 ft-lbs.
Torque sway bar links to 65 ft-lbs.

Support the lower control arm with a suitable jack. Remove the rear wheels. All steps are repeated for both sides of the vehicle.

Remove the ABS sensor and brake hose bracket.

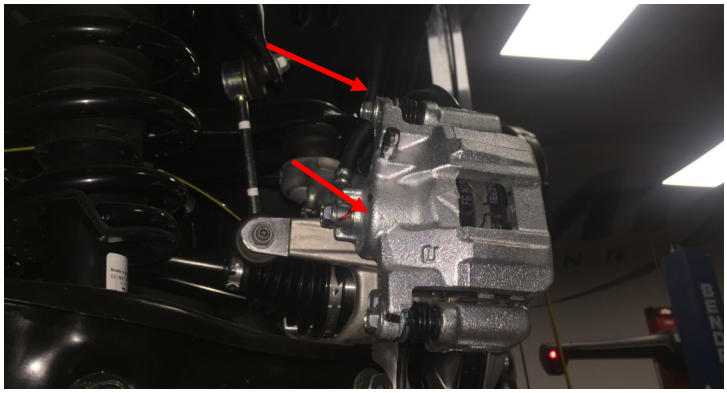


Un-bolt the sway bar end links at the knuckle. You may do this on both sides to facilitate movement.

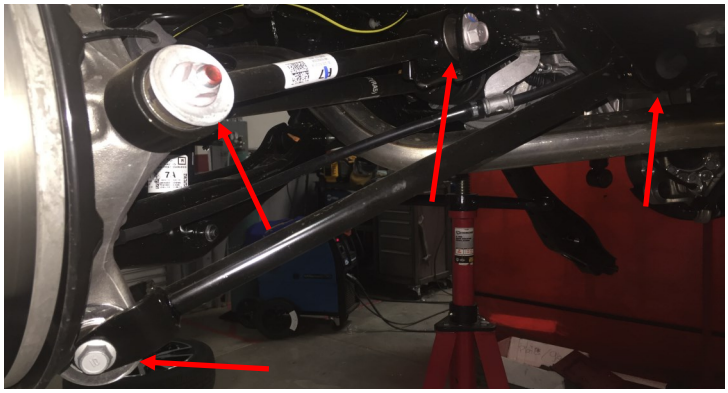


Remove the brake caliper bracket and support using a suitable hanger to prevent straining the rubber brake hose.

CAUTION: Do not hang the brake caliper from the rubber brake hose.

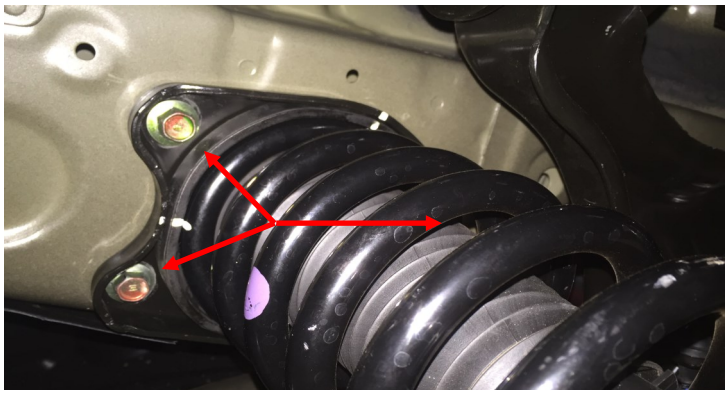


Loosen the nut holding the toe adjuster and the nut on the same arm at the hub. Loosen the 2 bolts holding the lower trailing arm.



Remove the lower strut bolt. Loosen the control arm bolt at the cradle. Remove the control arm bolt at the hub and let the control arm swing out of the way.

Remove the 3 bolts holding the upper strut mount to the vehicle body and remove the strut from the vehicle.



Lowering the rear suspension cradle is necessary for proper wheel alignment. Support the cradle, and loosen the 4 cradle bolts individually. Remove the bolts holding the support brackets to the body and discard.

Remove 1 bolt at a time. Install spacers (shown in red) between the cradle and the body, and between the support brackets and the body. Use the provided M12 bolts for the bracket spacer.

Raise the strut up with ReadyLIFT rear strut spacer (shown in red) and thread provided M12 bolts through. Do not tighten at this time.

Tighten all cradle bolts.

Torque cradle bolts to 125 ft-lbs.

Torque bracket bolts to 90 ft-lbs.

Raise the lower control arm and thread the lower strut bolt through. Do not tighten at this time.

Re-attach the lower control arm to the spindle and thread the bolt through. Do not tighten at this time.

Re-install the brake caliper bracket. Torque to 90 ft-lbs. Re-attach ABS sensor and brake hose bracket. Torque to 5 ft-lbs.

Repeat on opposite side.

Install sway bar links to knuckle. Do not tighten at this time.

Install wheels and lower vehicle to the ground. Jounce suspension and roll vehicle to cycle suspension. Torque to manufacturer's specifications.

Torque lower control arm bolts to 100 ft-lbs.
Torque lower strut bolts to 150 ft-lbs.
Torque upper strut bolts to 75 ft-lbs.
Torque trailing arm bolts to 75 ft-lbs.
Torque sway bar end links to 35 ft-lbs.

Torque rear toe adjustment at knuckle to 65 ft-lbs. Tighten adjuster retainer nut. Final torque will be performed by alignment technician.

⚠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 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

RECOMMENDED ALIGNMENT SPECS

Front	Driver	Passenger	Tolerance	Total / Split
Camber	-0.8	-0.5	+/- 0.5	+0.4
Caster	+3.7	+3.7	+/- 0.6	+0.0
Toe	+0.08	+0.08	+/- 0.05	+0.0
Rear	**Driver**	**Passenger**	**Tolerance**	**Total / Split**
Camber	-0.8	-0.8	+/- 0.5	+0.0
Toe	+0.08	+0.08	+/-0.08	+0.0