62-50340 2010-2024 TOYOTA 4RUNNER PREMIUM 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 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.

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.

SAEJ2492 Warning

By installing this product, you acknowledge that the suspension of this vehicle has been modified. As a result, this vehicle may handle differently than that of factory-equipped vehicles. As with any vehicle, extreme care must be used to prevent loss of control or roll-over during sharp turns or abrupt maneuvers. Always wear seat belts, and drive safely, recognizing that reduced speeds and specialized driving techniques may be required. Failure to drive this vehicle safely may result in serious injury or death. Do not drive this vehicle unless you are familiar with its unique handling characteristics and are confident of your ability to maintain control under all driving conditions. Some modifications (and combinations of modifications) are not recommended and may not be permitted in your state. Consult your owner's manual, the instructions accompanying this product, and state laws before undertaking these modifications. You are responsible for the legality and safety of the vehicle you modify using these 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.

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 alighting headlights.

This suspension system was developed using a 285-70R17 tire with 17" x 8" 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 10.5" 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.

PRE-INSTALLATION MEASUREMENTS:

It is imperative that you record the following measurements and factory components in the tables below. ReadyLIFT 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 ReadyLIFT calls out will ensure the lift on the vehicle is correct.

These measurements will affect the performance of this lift kit. Failure to ensure proper stock conditions may result in over lifting, causing premature failure of axles, CV boots and drivetrain. Over lifting 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 lifting will also cause a shock top off condition 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 lift or leveling kit and adjust to original factory position after the completion to ensure a safe and enjoyable experience.

VEHICLE HEIGHT MEASURMENTS

	Driver Before	Driver After	Passenger Before	Passenger After
Front				
Rear				

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

RECORD HEAD LAMP MEASURMENTS

Driver Before	Driver After	Passenger Before	Passenger After

BILL OF MATERIALS

COMPONENTS	QTY
SKID PLATE	1
SKID PLATE SPACER	2
FRONT BRACKET SPACER	6
JACK POINT SPACER	1
SWAY BAR DROP	2
FRONT BUMP STOP EXTENSION	2
FRONT DIFFERENTRIAL SPACER	2
UPPER CONTROL ARM, RH	1
UPPER CONTROL ARM, LH	1
FRONT FALCON COILOVER, RH	1
FRONT FALCON COILOVER, LH	1
REAR FALCON SHOCK, RH	1
REAR FALCON SHOCK, LH	1

HARDWARE	QTY
DIFFERENTRIAL SPACER	
M14-2.0 x 160 HEX HEAD BOLT	2
M14 FLAT WASHERS	2
M14-2.0 NYLOC NUT	2
SKID PLATE AND SKID PLATE SPACER	
M8-1.25 x 35MM HEX HEAD BOLT	4
M8 FLAT WASHER	4
SWAY BAR DROP	
M10-1.5 x 16MM HEX HEAD BOLT	4
M10 FLAT WASHER	4
M10-1.25 X 35MM SOCKET HEAD SCREW	4
JACK POINT SPACER	
M8-1.25 x 20MM HEX HEAD BOLT	2
M8 FLAT WASHER	2
SKID PLATE BRACKET SPACER	
M10-1.25 x 35MM HEX HEAD BOLT	6
M10 FLAT WASHER	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 or check out the dealers tab on our Website for authorized installers .

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.

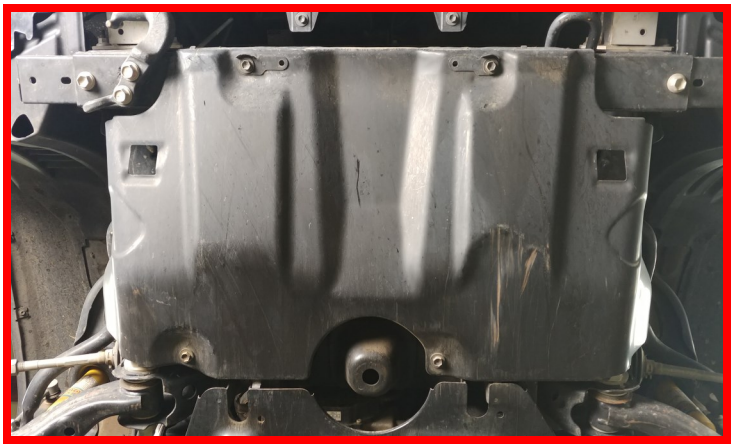
Disconnect the vehicle power source at the ground terminal on the battery.

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.

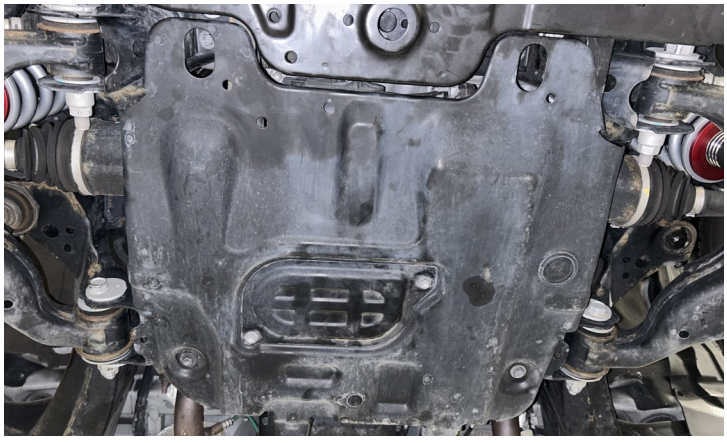
Remove the front gravel guard from the frame rail.

RETAIN FACTORY HARDWARE.



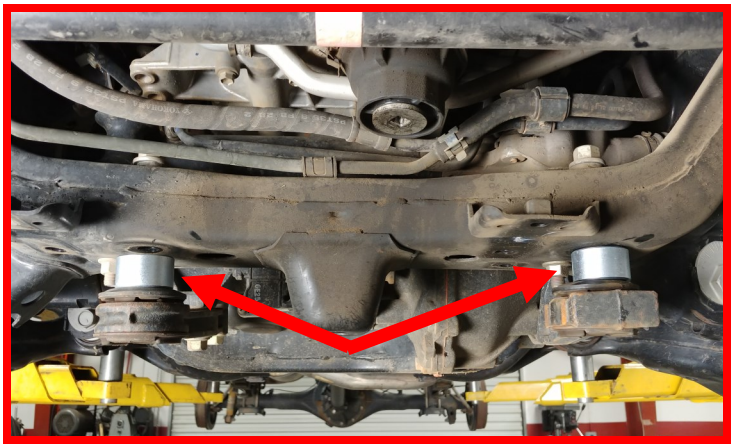
Remove the factory skid plate from under the differential.

RETAIN FRONT FACTORY HARDWARE.



Remove front differential mounts from the frame and let it hang. Retain large bushing washers.

Install the ReadyLIFT differential drops in between the factory mounts and frame.

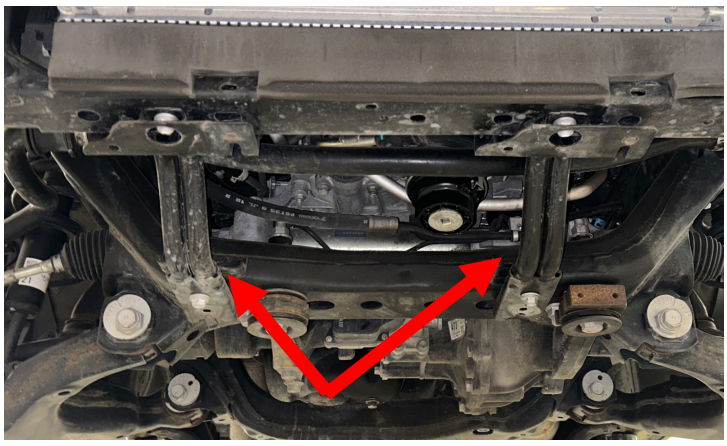


Attach differential brackets with provided hardware. Use factory large bushing washers in their original location.

Torque to 95 ft-lbs.

Remove front support brackets.

DISCARD FACTORY HARDWARE.



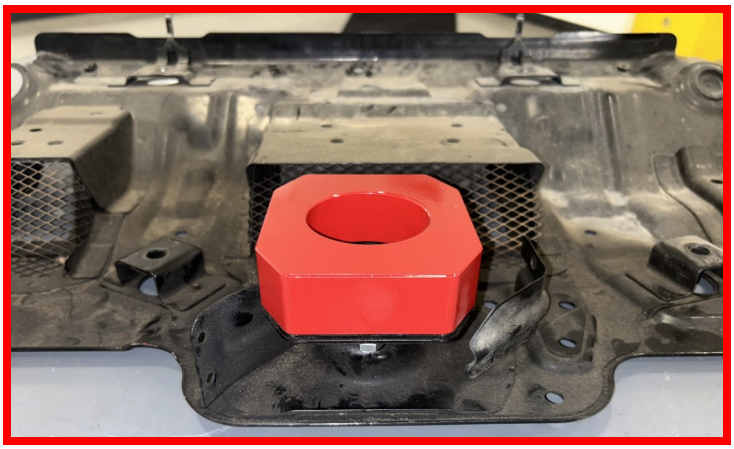
Using the provided spacer and M10 hardware, install the middle bolt of the front support bracket. The spacer will be installed inside the pocket of the support bracket.

Install the other two spacers and bolts into the support bracket.

Torque bolts to 35 ft-lbs.

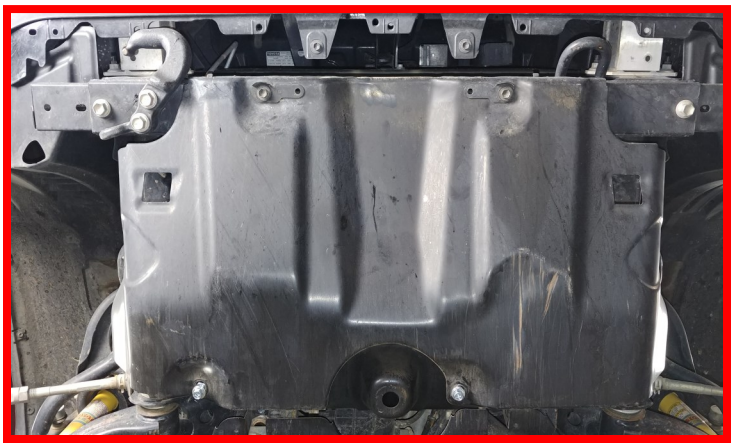
Install the jack point spacer to the front gravel guard using the provided M8 Bolts and washers.

Torque bolts to 35 ft-lbs.



Install the front two bolts of the front gravel guard to the core support cross member using the factory hardware.

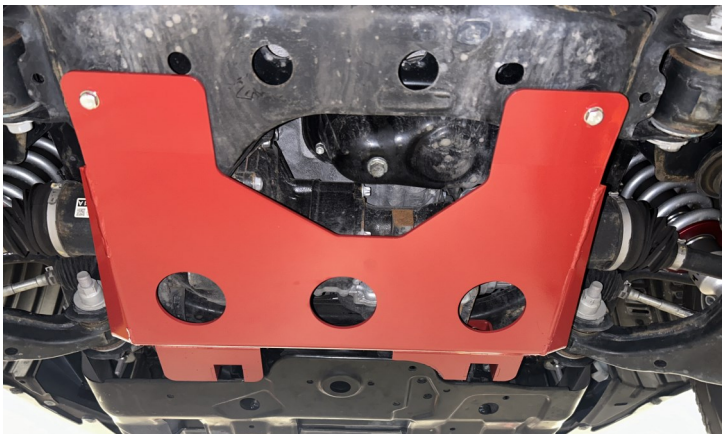
Do not tighten at this time.



Install the rear of the front gravel guard using the provided M8 x 40mm hardware and spacers. Torque front and rear hardware to 5 ft-lbs.

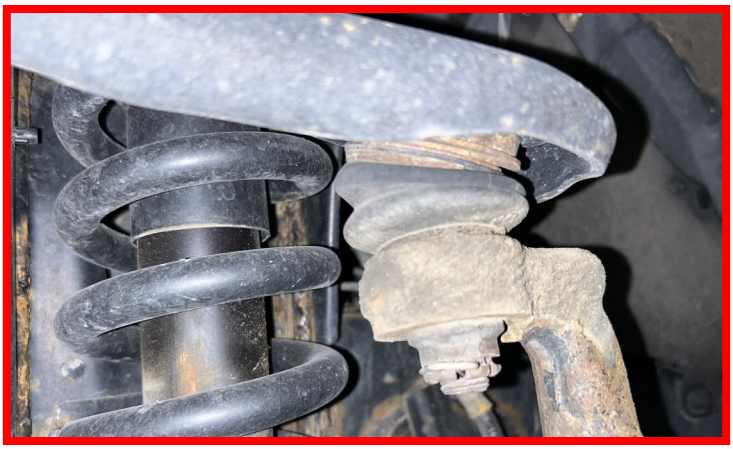
Install the ReadyLIFT skid plate using the factory bolts in the front, and the provided M8 bolts in the rear.

Torque hardware to 25 ft-lbs.



Remove the cotter pin and castle nut from the upper control arm ball joint at the knuckle. Disconnect the upper control arm from the knuckle and let the knuckle hang.

Discard factory hardware.



Remove the upper control arm pivot bolt and nut. Remove upper control arm from vehicle.

RETAIN FACTORY HARDWARE.

Install the ReadyLIFT upper control arm using the factory upper control arm pivot bolt and nut. Remove upper control arm from vehicle.

NOTE: THE READYLIFT STICKER GOES TOWARDS THE FRONT OF THE VEHICLE.

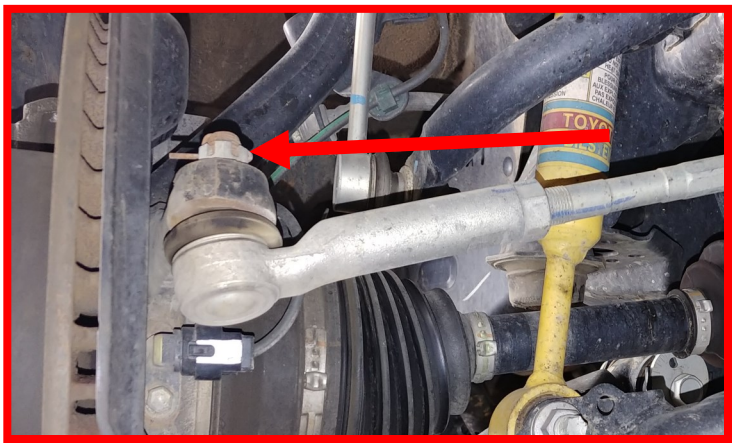
Torque pivot bolt to 110 ft-lbs.

Install the ball joint into the knuckle using the provided nut and laser cut washer.

Torque the ball joint nut to 65 ft-lbs.

Remove the tie rod cotter pin and castle nut.

RETAIN FACTORY HARDWARE.



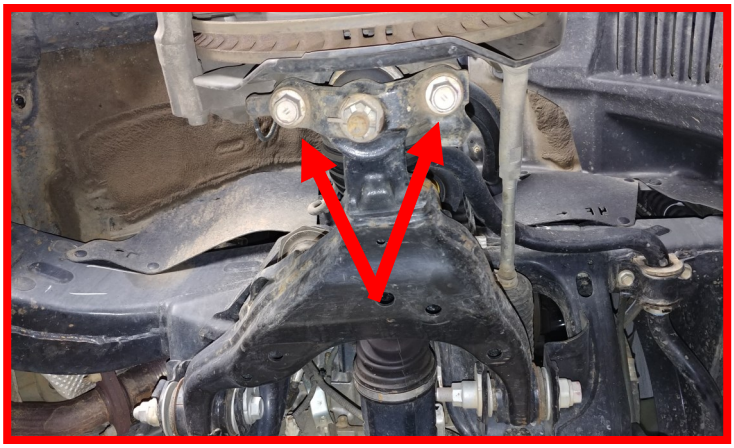
Strike the tie rod boss with a hammer to dislodge the taper. Remove the tie rod from the knuckle. Let the tie rod hang out of the way.

Support the hub assembly with an appropriate jack. Remove the lower strut hardware.

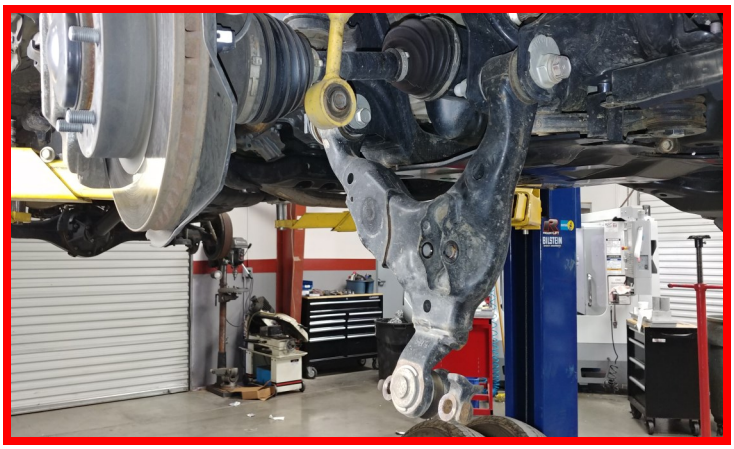
RETAIN FACTORY HARDWARE.

Remove the ball joint cradle bolts.

RETAIN FACTORY HARDWARE.



Loosen but do not remove the lower control arm cam bolts. Let the control arm swing down and hang out of the way.



Caution: the strut will fall
Hold onto the strut Remove the three upper strut nuts. Remove the strut from the vehicle. Discard the strut and upper hardware.

Install the Falcon Upper Strut Mount into the factory strut tower using the supplied nuts. Falcon logo should be facing outward.

Torque nuts to 35 ft-lbs.

Install the Falcon Strut into the Falcon upper strut mount using the supplied bolt and nut.

Torque nut to 110 ft-lbs.

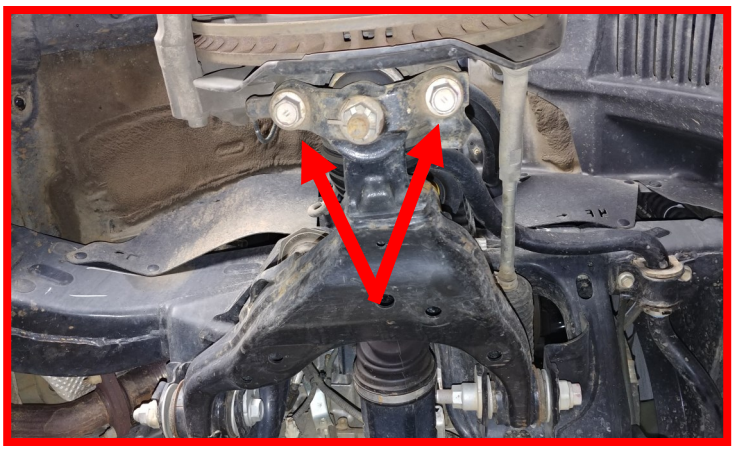
NOTE: THE STRUT ASSEMBLY WITH THE LOWER SPRING PERCH SET HIGHER GOES ON THE DRIVER'S SIDE. THIS CAN BE IDENTIFIED BY THE NUMBER OF GROOVES BELOW THE SPRING PERCH. THE STRUT WITH MORE GROOVES SHOWING BELOW THE PERCH IS THE DRIVER'S SIDE STRUT.

Install lower strut bushing into the lower control arm using factory hardware.

Torque nut to 65 ft-lbs.

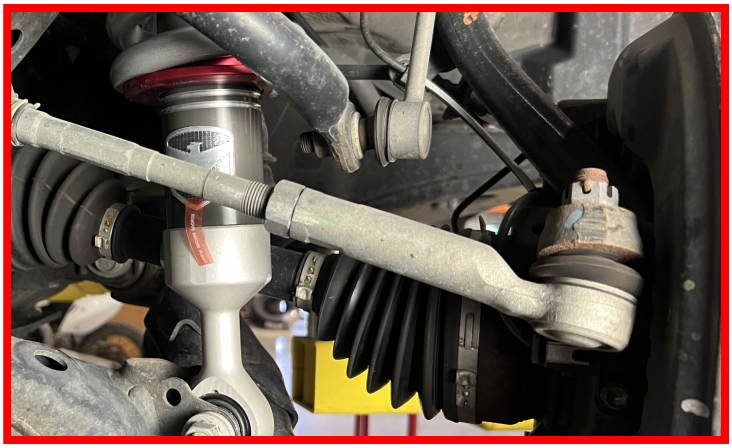
Install the lower ball joint cradle to the knuckle using the factory hardware, and a drop of thread locker.

Torque to 125 ft-lbs.



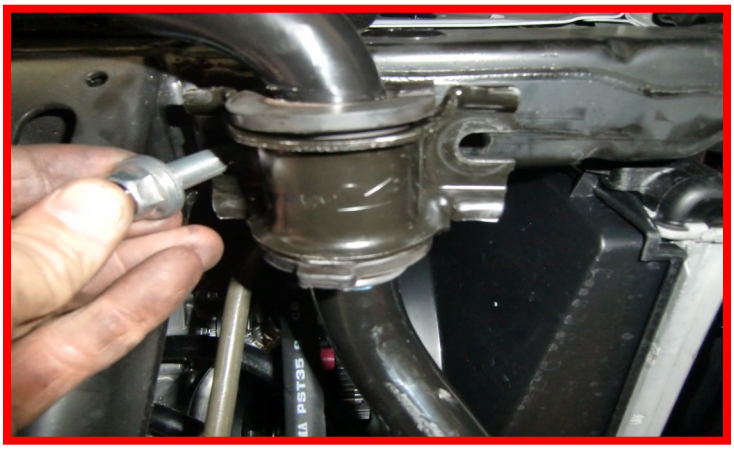
Reconnect the tie rod to the steering knuckle using factory hardware.

Torque to 45 ft-lbs, then tighten until the castle nut aligns with the cotter pin hole. Install cotter pin.



Remove the sway bar from the frame rail. Let hang out of the way.

RETAIN FACTORY HARDWARE.

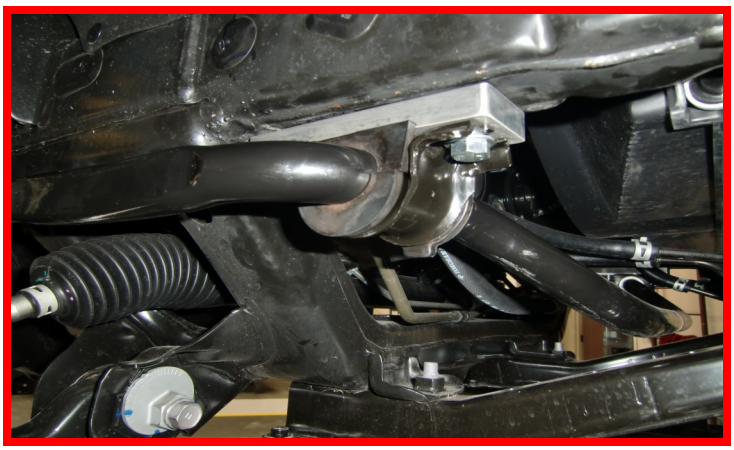


Install the ReadyLIFT sway bar brackets to the frame using the factory hardware.

Torque to 35 ft-lbs.

Install the sway bar to the ReadyLIFT brackets using the provided M10 x 20mm bolt and washer.

Torque to 35 ft-lbs.



Remove the front jounce bumper.

Apply a small amount of thread locker to the threads on the bump stop. Install the provided front bump stop spacer and re-install the Bump stop.

Install the wheels and lower the vehicle to the ground. Torque the lug nuts to the wheel manufacture's specs. Jounce the suspension to get it to settle to the new ride height.

Torque the upper control arm and lower strut hardware to 125 ft-lbs. Center the lower cam bolts and torque to 125 ft-lbs (final torque to be done by alignment tech).

Rear Installation

Block the front tires and raise the rear of the vehicle using a suitable jack.

Support with jack stands at each frame rail in front of the rear leaf spring hangers.

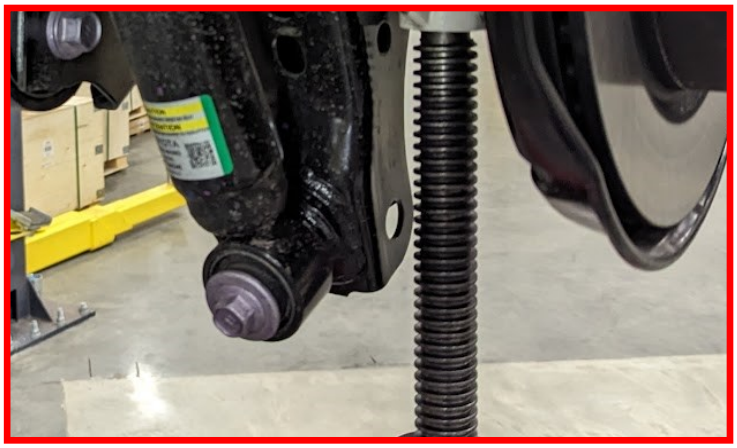
Loosen, but do not remove, control arm bolts to allow for control arms to pivot.

Disconnect sway bar link from the frame on both the left and right hand sides.

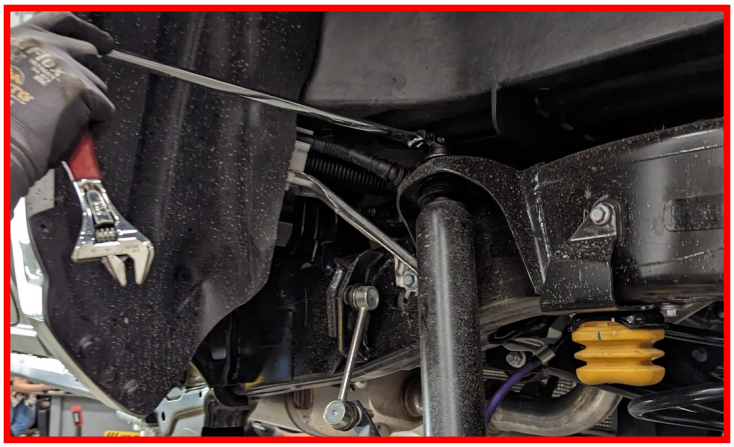
RETAIN FACTORY HARDWARE.

Remove lower shock bolt.

RETAIN FACTORY HARDWARE.



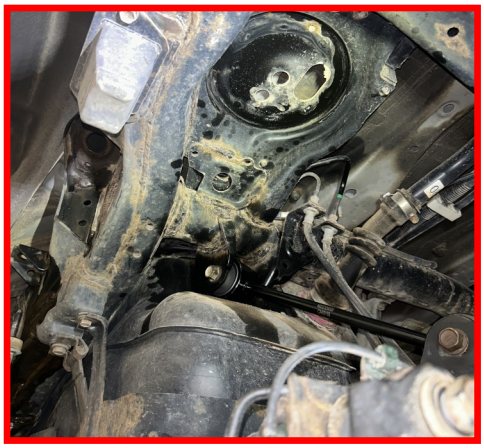
Ensure axle is supported and remove upper shock nut. Remove shock from vehicle.



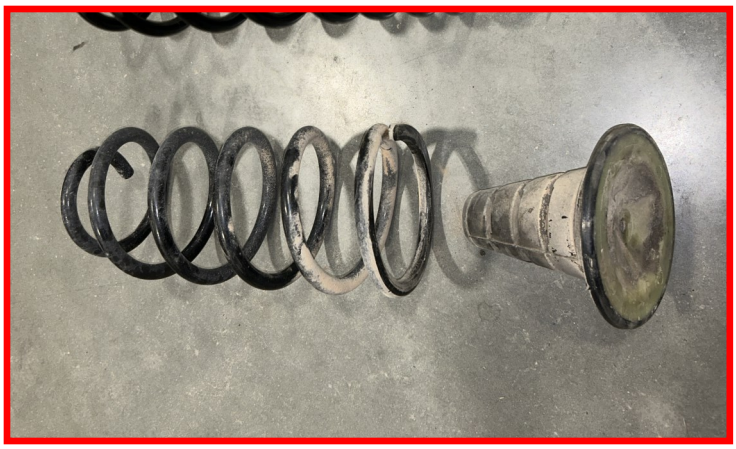
UPPER SHOCK NUT CAN BE DISCARDED.

Repeat steps for opposite side of the vehicle.

Lower rear axle enough to remove rear spring from vehicle.



Remove upper isolator from factory spring.



Install isolator into the provided Ready-LIFT spring.

Install ReadyLIFT Spring with factory isolator into the vehicle.

Repeat steps for opposite side of the vehicle.

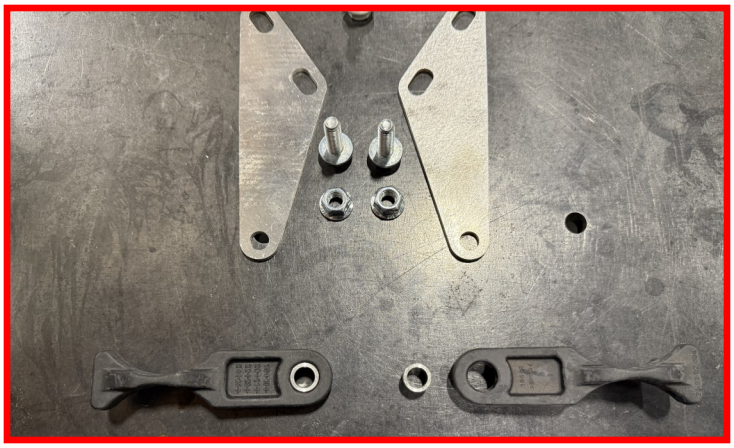
Falcon rear shock is provided with dust shield and alignment tab.

Dust shield will be installed on the bracket shown in the image. Dust shield will point away from shock lower eye.

Install dust shield as shown, using provided bolt.

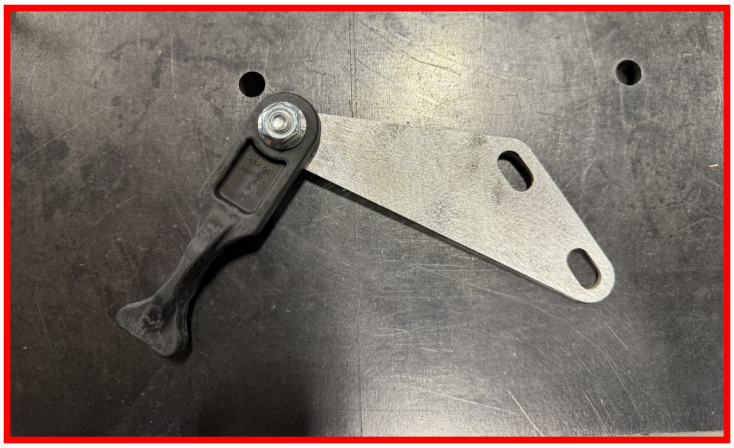
Torque to 10 ft-lbs.

Find the provided shock alignment hardware.



Install the shock alignment wedge onto the shock alignment tab as shown.

Torque hardware to 20 ft-lbs.



Install the shock alignment wedge and tab assembly onto the shock by placing the wedge in between the shock body and the reservoir.

Shock alignment tab should be on top side of the wedge, as shown in the picture. Driver's side is shown in the picture.

Install Falcon Rear Shock stud onto the vehicle.

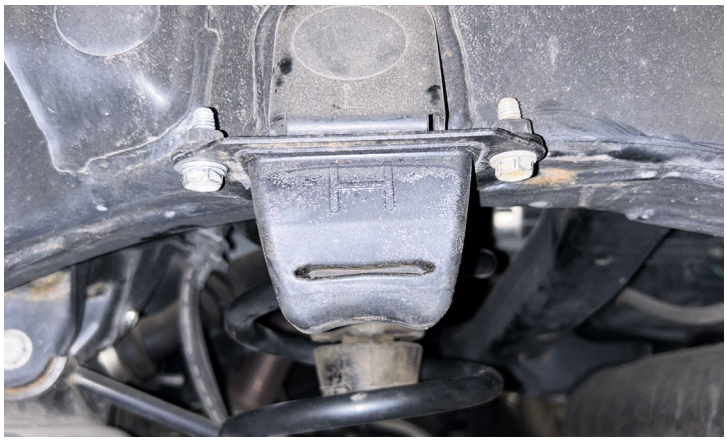
Torque shock hardware to 65 ft-lbs.

Bolt the shock alignment tab to the frame using the provided hardware.

Torque hardware to 35 ft-lbs.

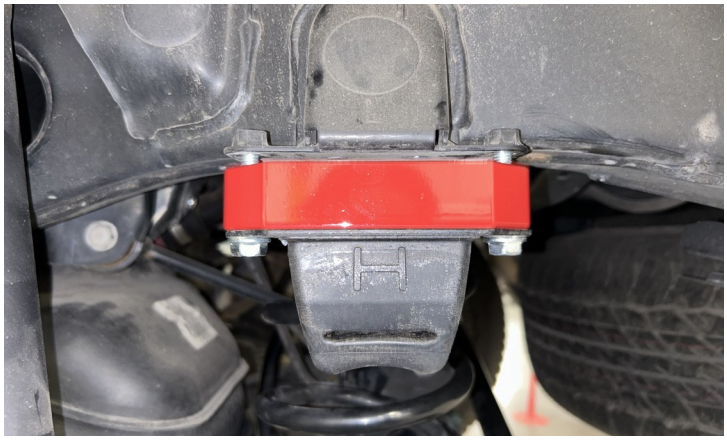
Remove factory rear bump stop.

DISCARD FACTORY HARDWARE.



Install the ReadyLIFT Bump Stop Spacer using the provided M8 bolts and washers.

Torque bolts to 65 ft-lbs.



Reconnect sway bar link to frame.

Torque nut to 50 ft-lbs.

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 all rear control arm hardware to 135 ft-lbs.

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.

Have wheel alignment performed by qualified alignment technician. Have the alignment set to the recommended specs at the end of the instructions. Torque the lower control arms to 135 ft-lbs.

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 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	+0.5	+0.5	+/- 0.5	+0.0
Caster	+2.0	+2.0	+/- 0.5	+0.0
Toe	+.06	+.06	+/-0.05	+.00