49-23422—23-Up Ford Super Duty 4” 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.

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 37"x12.5" tire with 20" x 9" wheel and a offset of +25. 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 13.5" 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:

Due to design changes between model years, some vehicles may see variations in lift height.

Vehicles with snow prep package / ambulance package front ends will not achieve the full 4" lift. The lift height is based off the standard model springs and will make these vehicles sit at the base model lift height.

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
Front Lift Spring	2
Front Sway Bar Drop	2
Brake Line Bracket, Driver	1
Brake Line Bracket, Passenger	1
Bump Stop Extensions	2
Track Bar Bracket	1
Radius Arm Drop, Left	1
Radius Arm Drop, Right	1
Radius Arm Crush Sleeve	2
Radius Arm Nut plate, Left	1
Radius Arm Nut plate, Right	1
Carrier Bearing Drop	1
Rear Block, Driver	1
Rear Block, Passenger	1
Falcon Shocks, Front	2
Falcon Shocks, Rear	2
U-Bolt	4
U-Bolt Hardware Pack	1

HARDWARE	QTY
Brake Line	
M8-1.25 x 20mm Hex Head Bolt, Class 10.9, YZ	2
M8-1.25 C-Lock Nut, Class 10.9	2
M8 Flat Washer Class 10.9	4
Carrier Bearing	
7/16"- 14 x 2.25" Hex Head Bolt (GR8)	2
7/16 Flat Washer (GR8)	2
Sway Bar Drop	
M10-1.5 X 40mm Hex Head Bolt, Class 10.9, YZ	4
M10-1.5 C-Lock Nut, Class 10.9	4
M10 Flat Washer Class 10.9	10
Bump Stop	
M8 - 1.25 x 70mm Hex Head Bolt, Class 10.9	2
M8 Flat Washer (GR 8.8)	2
Radius Arm Drop	
M18(2.50) X 130 GR10.9 HCS Zinc Partial Thread	2
M18(2.50) X 40 Metric Hex SC GR 10.9 Zinc	2
M18(2.50) PRV TQ LCKNT Class 10 Zinc	2
M18 Flat Washer, Hard HV200 YZ	6
M18 DIN 127 METRIC SPLIT LOCKWASHER ZB	2

⚠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.

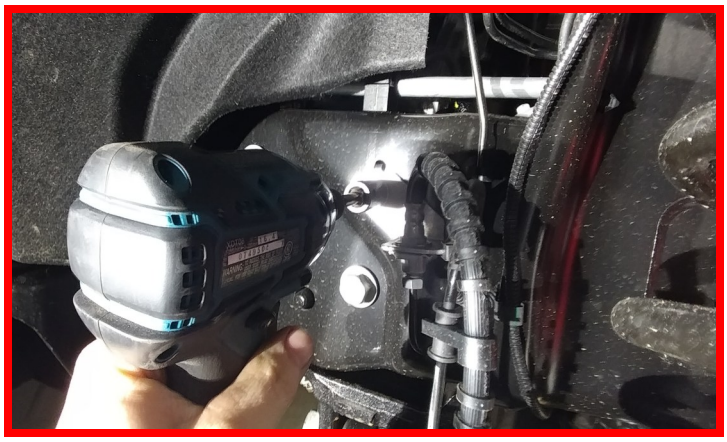
Raise the front of the vehicle and support with safety jack stands at each frame rail behind the lower control arms.

Place jack stands under the front axle.

Remove front wheels and tires.

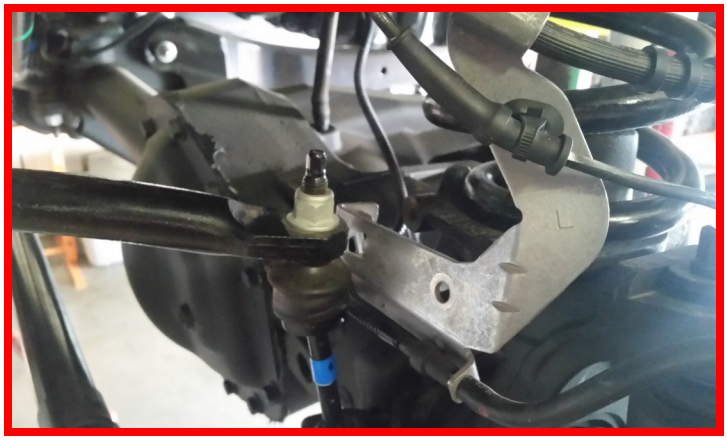
Remove the brake line bracket at the frame.

Retain the factory hardware.



Remove the brake line bracket at the axle.

Retain the factory hardware.

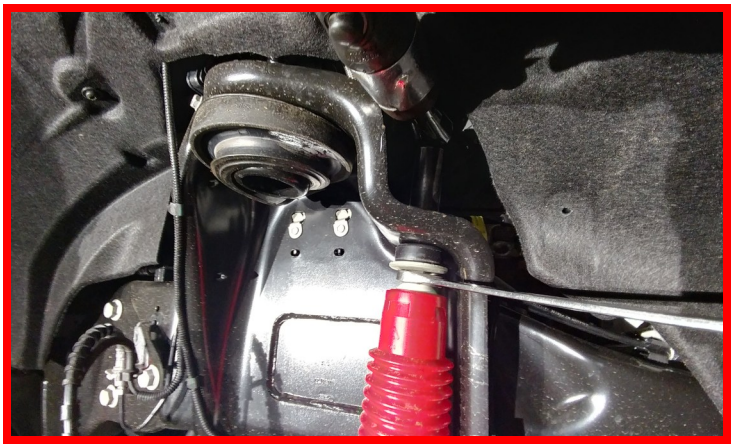


Support the axle with a suitable jack and remove the lower shock hardware from the axle mount.

Retain the factory hardware.

Remove the upper shock hardware from the frame and remove shock from the vehicle.

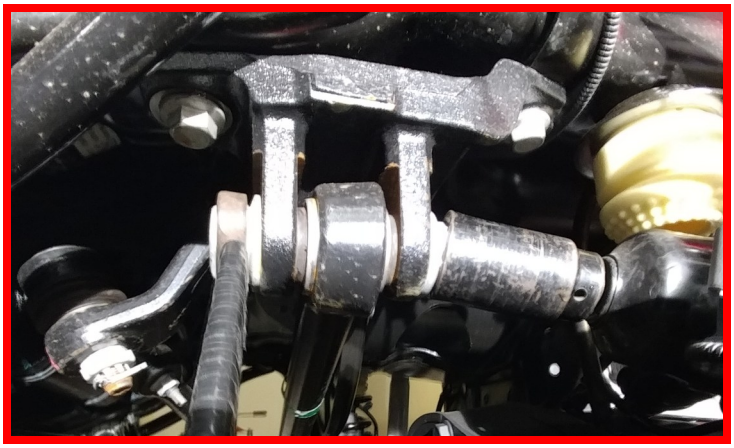
Properly discard the shock.



Remove the sway bar from the frame.

Retain the factory hardware.

Remove track bar from the track bar bracket. Let the track bar hang out of the way. Retain factory hardware.

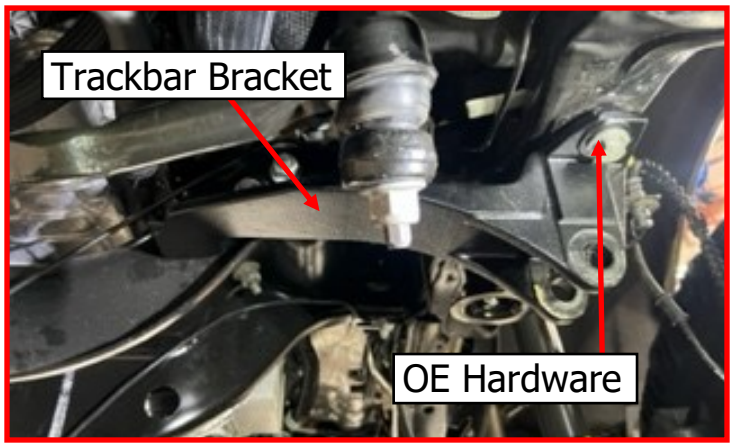


Remove the cast track bar mount on driver side of frame.

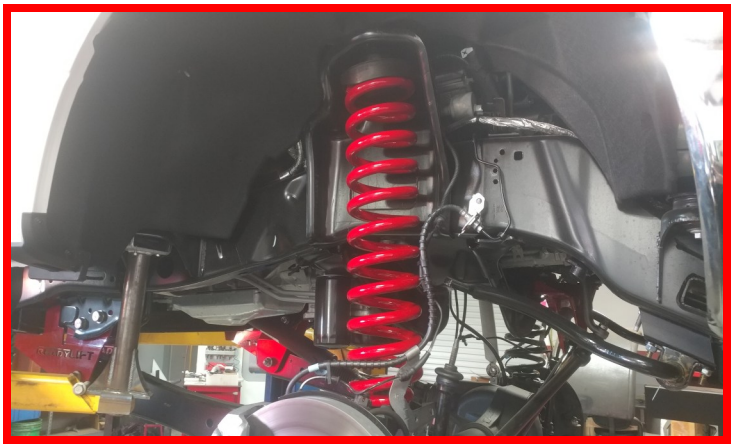
Retain the factory hardware.

Install track bar drop bracket using thread locker and the factory hardware. Do not install track bar at this time.

Torque the bracket hardware to 95 ft-lb.



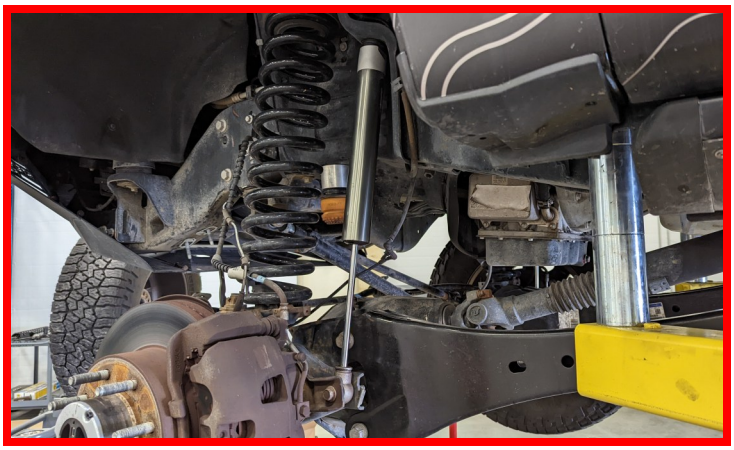
Lower the axle enough to remove the front springs. Install the replacement spring using factory rubber isolator. Raise the axle enough to hold the spring assembly in place.



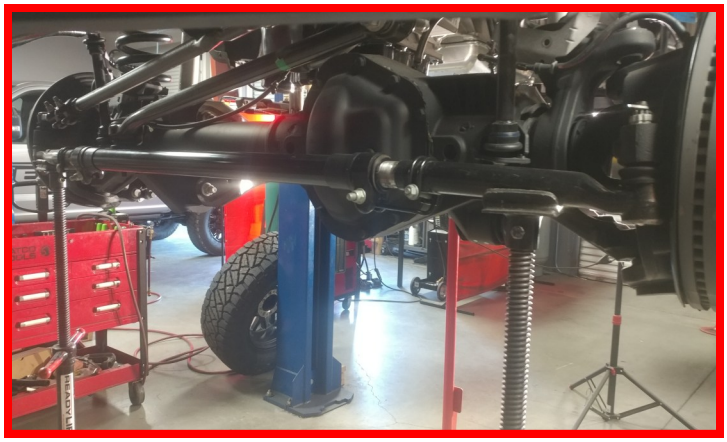
Install the Falcon Front Shock using the provided hardware on the top and the factory hardware on the bottom attachment.

Torque the upper shock hardware to 35 ft -lbs.

Leave the bottom shock hardware loose at this time.



Remove the jack stands from under the axle and let the axle hang. Place those jack stands under the tie rods as shown in the image.

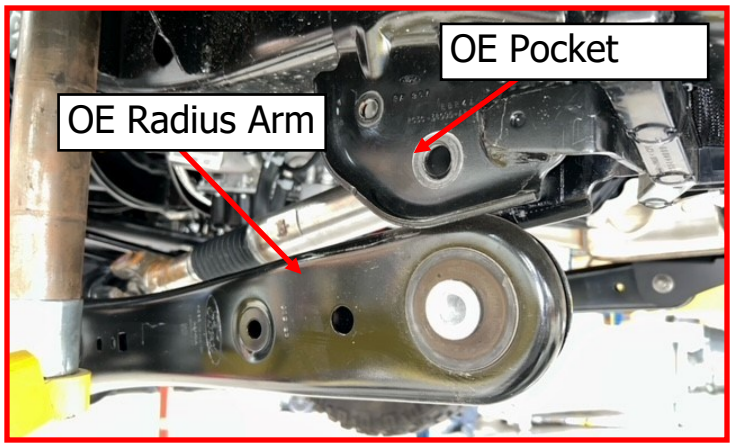


Remove the factory radius arm pivot hardware.

Retain the factory hardware.

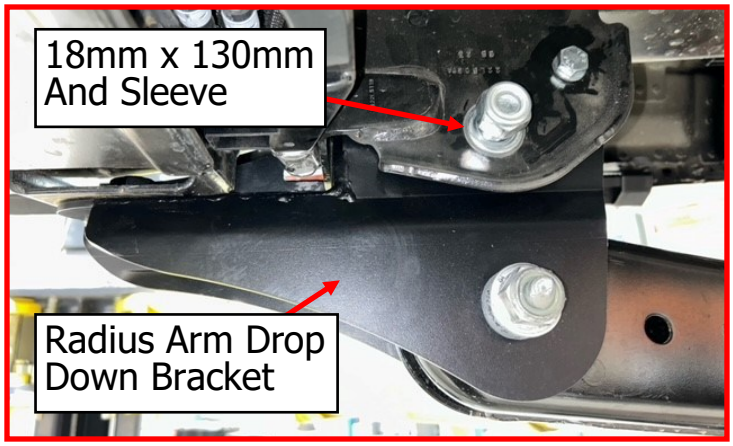
Using the jack, rotate the axle down to pivot the radius arms down and out of the factory pockets.

Ensure the radius arm are low enough to install the supplied drop bracket.



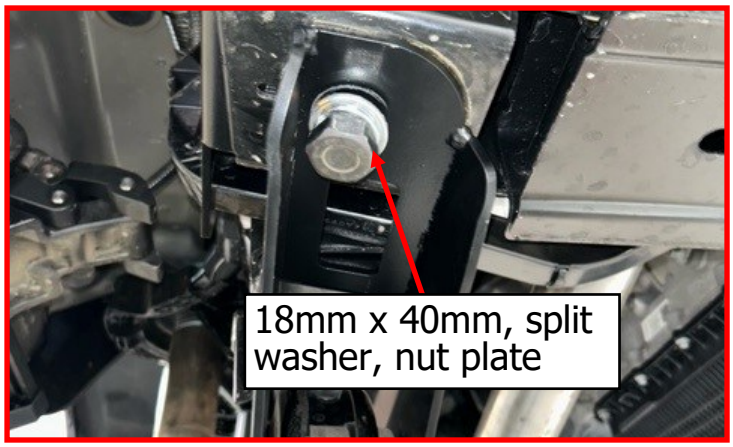
Secure the radius arm drop down bracket using the supplied 18mm X 130mm bolts, sleeves and hardware.

Do not tighten at this point.



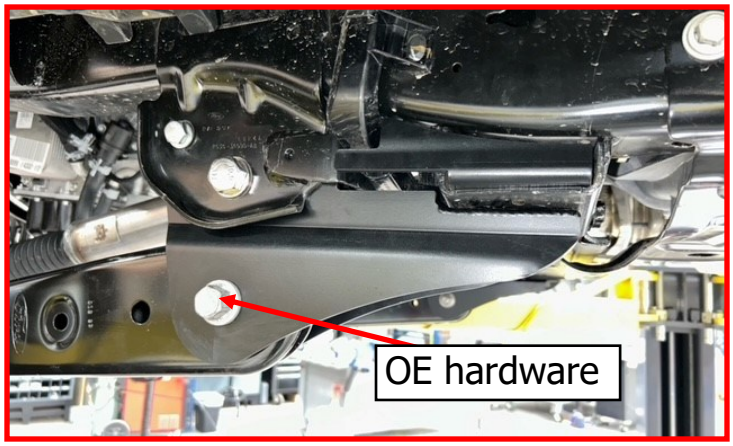
Slide the nut plate, into the frame. Using the supplied 18mm X 40mm bolts, washer and split washer, Install the bolt through the radius arm drop bracket, rear crossmember and nut plate.

Torque the M18 hardware to 250 ft-lb.



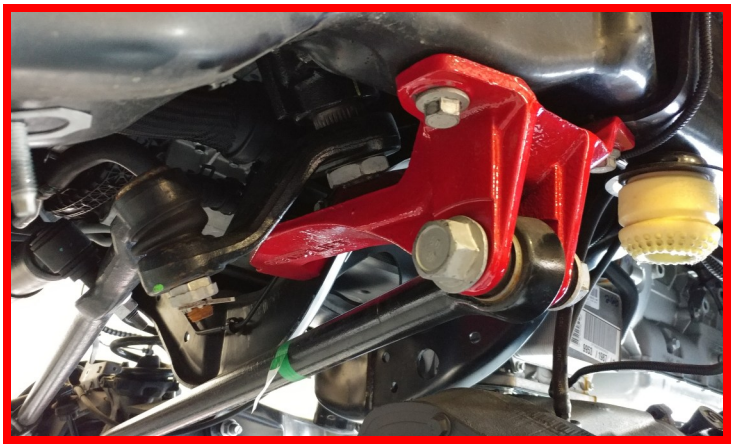
Carefully raise the radius arm into the drop bracket and secure it using the factory hardware.

Do not tighten at this point.



Install the track bar into the track bar bracket using factory hardware.

Do not tighten at this time.



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

Torque the factory hardware to 35 ft-lbs.

Install the sway bar to the ReadyLIFT sway bar drops using the M10-1.5 x 40mm bolts, washers and nuts.

Torque the M10 hardware to 35 ft-lbs.

Install the brake line drop bracket to the original hole in the frame rail using the factory bolt.

Pull the flexible OE brake line through the axle mounted lower brake line bracket approximately 1”-2”. Gently pull the metal brake line down while lining up the brake line to the new bracket using the supplied M8-1.25 x 20mm bolts, washers, and nuts.

Torque mounting hardware to 10 ft-lbs.

Install the factory brake line bracket at the axle using factory hardware.

Torque the hardware to 5 ft-lbs.

Remove the factory bump stop by pulling it out of its mount. Remove the mount from the frame.

Install the ReadyLIFT bump stop spacer and factory bump stop mount to the frame using M8 x 70 mm bolt and washer.

Torque the M8 hardware to 5 ft-lbs.

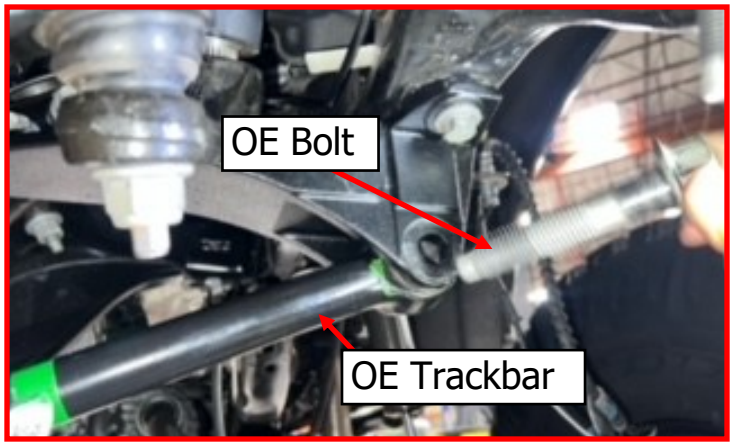
Install the bump stop to the factory mount by pressing it back into place.

Install wheels and torque to manufacturer's specifications.

Lower the vehicle to the ground.

Install the track bar into the track bar bracket using the OE bolt.

Torque the factory bolt to 406 ft-lb.



With everything tightened and torque to the specified specifications, install front tires and lower vehicle.

Move on to vehicle rear and begin installation of rear lift on next page.

Rear Installation

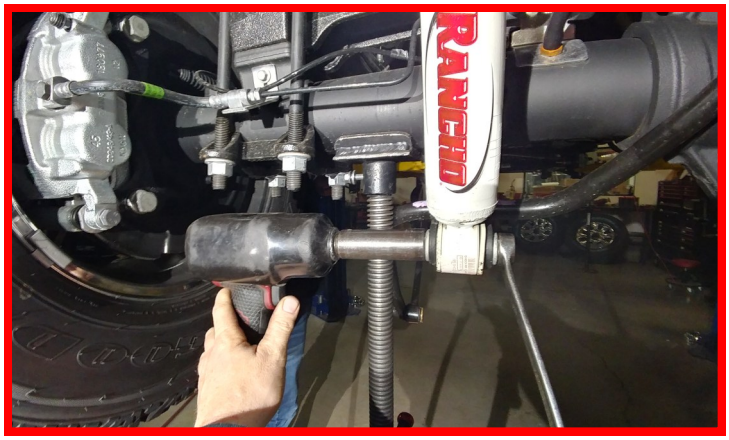
Block the front tires and raise the rear of the vehicle using a suitable jack.

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

Place axle jacks under the rear axle on each side of the differential.

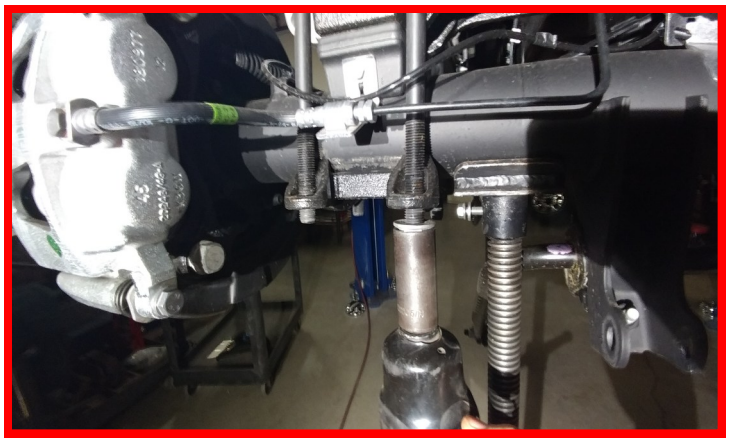
Remove the rear shocks from the vehicle and discard shocks.

Retain the factory hardware.

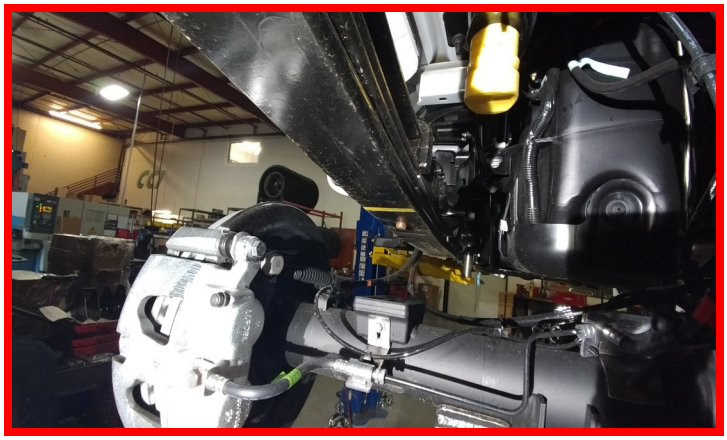


Slightly loosen but do not remove the passenger side u-bolts.

Remove the driver side u-bolts completely and discard.



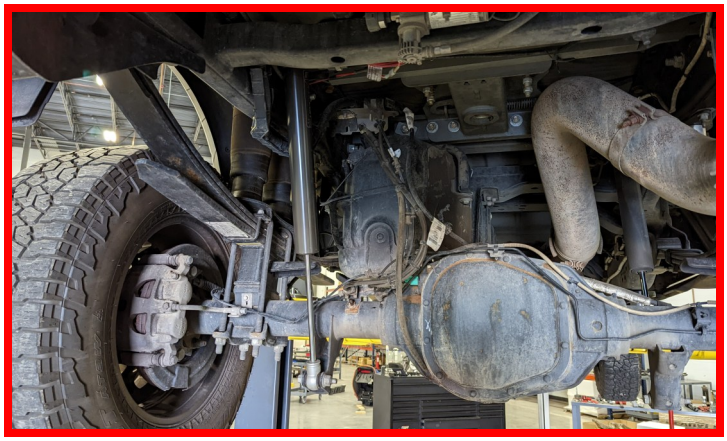
Lower the axle just enough to remove the factory block and install the ReadyLIFT block, making sure not to over extend brake and ABS lines. Adjust as necessary.



Locate the driver side lift block (Has a D cut into it under the bump stop tang). Raise the axle and the block up to the spring while aligning the center pin. Install the provided u-bolts, and nuts. Snug the u-bolt nuts but do not fully tighten at this time. Repeat steps for passenger side.

Install rear Falcon shock using factory hardware.

Do not tighten at this time.



If equipped with a 2 piece driveline, remove the bolts holding the carrier bearing to the frame. Install the ReadyLIFT carrier bearing spacer between the carrier bearing and frame using 7/16" bolts, washers and nuts.

Torque the 7/16" hardware to 50 ft-lbs.

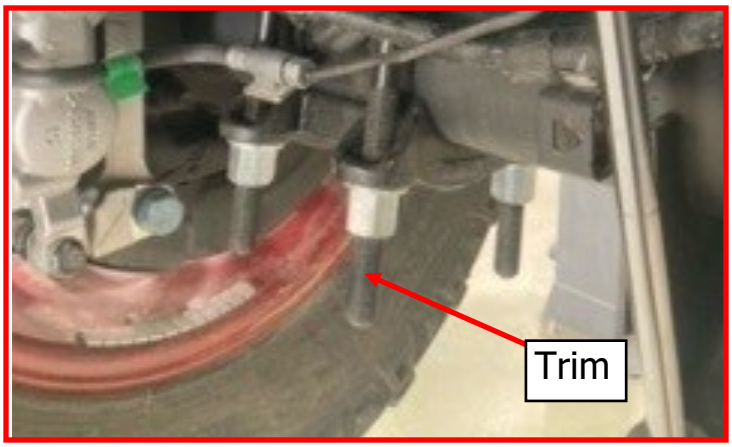
Reinstall the wheels and tires and lower the vehicle to the ground. Torque lug nuts to manufacturer specification.

Torque the U-bolts to 120 ft-lbs.

Re-check the wheel lug torque on all four wheels at this time.

Re-check all hardware (both the front and the rear) for proper installation and torque.

If you wish, you may trim the excess u-bolt thread length. If you do this you should leave approximately one inch of thread exposed after the U-bolts are torqued.



Jounce the vehicle to settle the suspension to the new ride height. Torque the radius arm hardware to 225 ft-lbs and shock hardware to 65 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.

With the steering wheel centered, turn the tie rod ends until the tires are straight. If the steering wheel is not centered properly, the ABS/traction control lights may activate. Turn the wheels from lock to lock and make sure the brake lines and ABS routing clears all suspension components adequately. Reposition if necessary.

Have wheel alignment performed by qualified alignment technician. Have the alignment set to the recommended specs at the end of the instructions.

NOTES: On completion of the installation, have the suspension and headlights realigned. After 100 miles recheck for proper torque on all newly installed hardware. Recheck all hardware for tightness after off road use.

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

	Driver	Passenger	Tolerance	Total / Split
Camber	-0.5	-0.5	+/- 0.5	+0.0
Caster	+3.0	+3.0	+/- 0.5	+0.0
Toe	+.05	+.05	+/-0.05	+.20