46-20254, 46-20255 2.5" Spring Leveling Kit w/ Falcon Shocks 2020-UP F250/350

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.

This suspension system was developed using a 35” x 12.5” 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 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:

Vehicles with snow prep package / ambulance package front ends will not achieve the full 2.5” lift. The lift height is based off the standard model springs and will make these vehicles sit at the base model lift height.

VEHICLE HEIGHT MEASURMENTS

	Driver Before	Driver After	Passenger Before	Passenger After
Front				
Rear				

BILL OF MATERIALS

Replacement Front Spring	**2**
Falcon Front Shock	**2**
Falcon Rear Shock	**2**
Sway Bar Drop	**2**
Brake Line Bracket, Driver	**1**
Brake Line Bracket, Passenger	**1**
Bump Stop Extension	**2**
Track Bar Bracket	**1**
Caster Bushing Kit	**1**
5/16" x 3/4" Bolt	**2**
5/16" Washer	**4**
5/16" Lock Nut	**2**
7/16" x 1 1/2" Bolt	**4**
7/16" Washer	**8**
7/16" Lock Nut	**4**
M8 x 70mm Bolt	**2**
M8 Washer	**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 to find one of our "Pro-Grade" Dealers.

INSTALLATION BY A PROFESSIONAL IS HIGHLY RECOMMENDED.

- A Factory Service Manual for your specific Year / Make / Model is highly recommended for reference during installation.
- All lifted vehicles may require additional driveline modifications and / or balancing.
- A vehicle alignment is REQUIRED after installation of this product.
- Speedometer / Computer recalibration is required if changing +/- 10% from factory tire diameter.
- A vehicle lift or hoist greatly reduces installation time. Installation time estimates are based on an available vehicle hoist.
- Vehicle must be in excellent operating condition. Repair or replace any and all worn or damaged components prior to installation.

Parts shown in red for picture clarification only

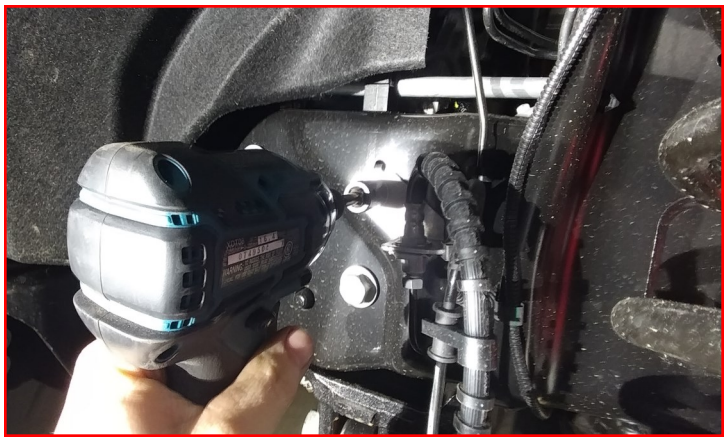
ReadyLIFT recommends all steps and procedures described in these instructions be performed while the vehicle is properly supported on a two post vehicle lift with safety jacks. Otherwise, park vehicle on a clean flat surface and block the rear wheels for safety. Engage the parking brake.

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

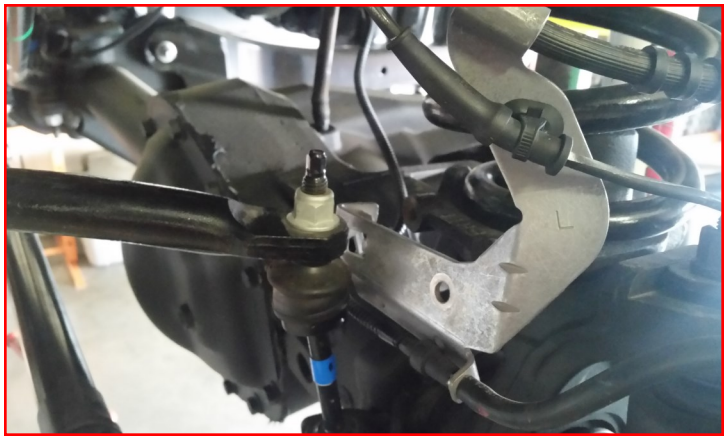
Lock the steering wheel in the straight forward position with the column lock or steering wheel locking device.

Raise the front of the vehicle and support with safety jack stands at each frame rail behind the radius arms. All steps are to be completed on both sides of the vehicle unless instructed.

Remove the brake line bracket at the frame. Retain the factory hardware.

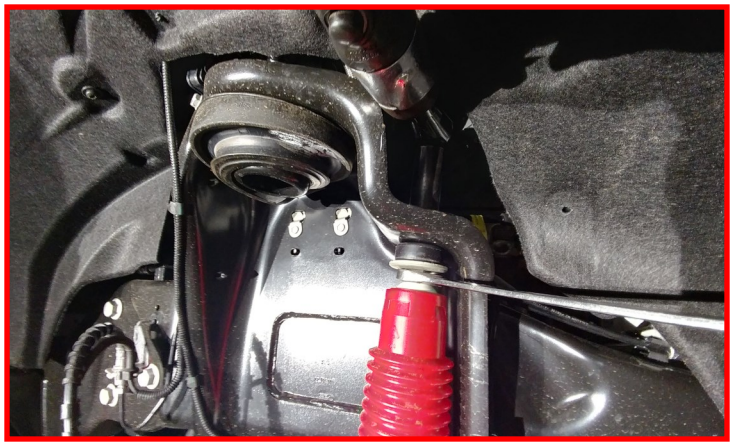


Remove the brake line bracket at the axle. Retain the factory hardware.



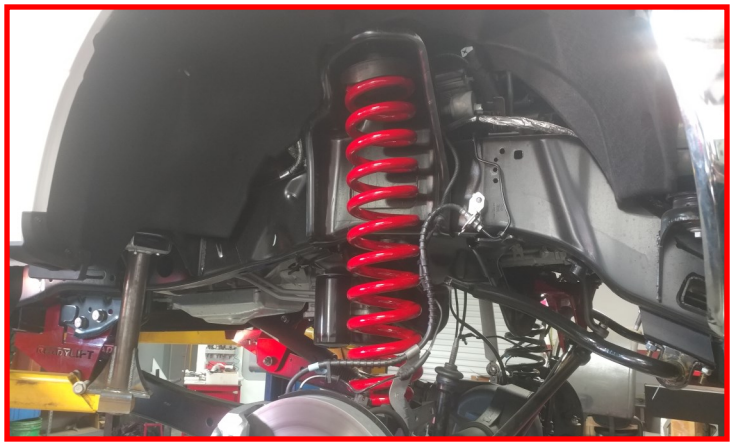
Support the axle with a suitable jack and remove the lower shock hardware from the axle mount. Retain factory hardware.

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

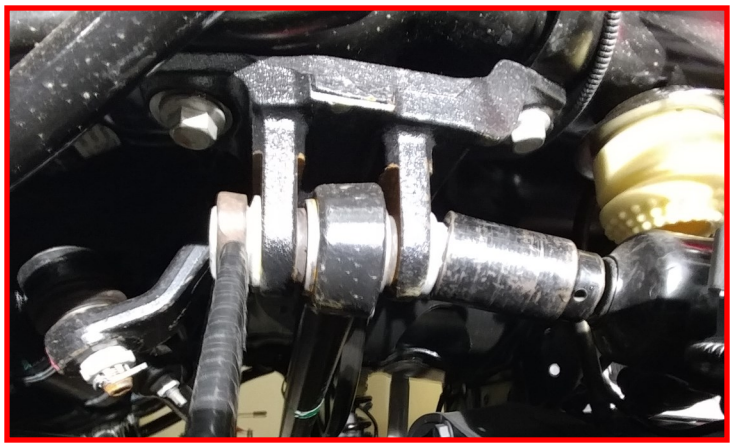


Remove the sway bar from the frame. Retain factory hardware.

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.



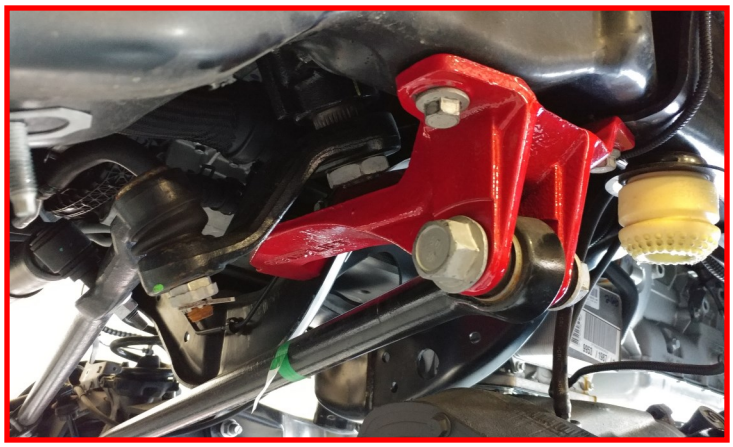
Remove track bar from the track bar bracket. Let the track bar hang out of the way. Retain factory hardware.



Remove factory track bar bracket and discard. Using the factory hardware, install the supplied track bar bracket on the frame in the factory orientation.

Torque the track bar bracket to 95 ft-lbs.

Install the track bar into the track bar bracket using the factory hardware. Do not tighten at this time.



Install the provided sway bar drop brackets to the frame using factory hardware.

Torque to 35 ft-lbs.

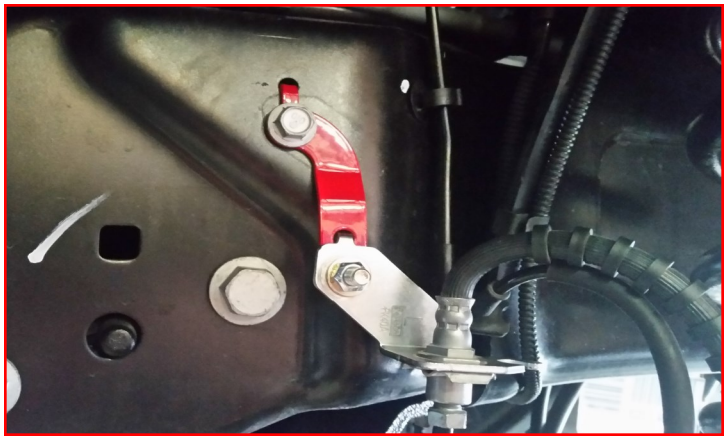
Install the sway bar to the supplied sway bar drops using the 7/16" bolts, washers and nuts.

Torque to 35 ft-lbs.

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

Torque to 5 ft-lbs.

Install the supplied brake line bracket to the factory brake line using 5/16" bolts, washers, and nuts. Install the bolt facing outwards. Torque to 10 ft-lbs. Gently pull the metal brake line down while lining up the brake line bracket to the original holes in the frame. Install using factory hardware. Torque to 5 ft-lbs.



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

Note: In some cases you'll need to trim the bump stop mount to create spring clearance under suspension full droop and articulation.

Mark a line parallel to the frame across the edge of the outer lip of the bump stop mount .

Using a suitable cutting tool, trim off the marked edge. Paint the cut surface to prevent corrosion.

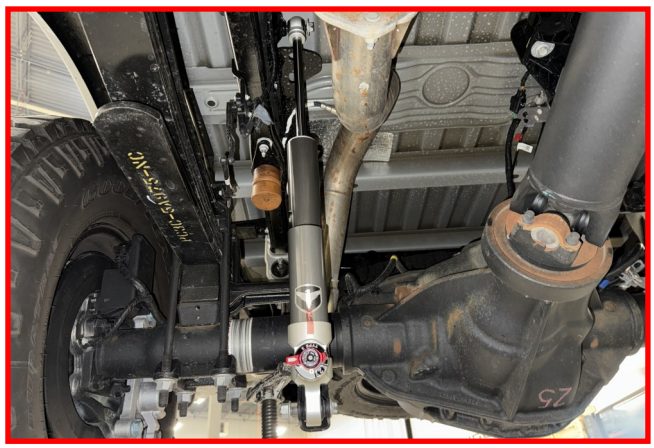
Install the supplied bump stop spacer and factory bump stop mount to the frame using M8 bolt and washer. Make sure the cut edge faces to the outside of the vehicle

Torque to 5 ft-lbs.

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

Install the provided Falcon front shocks using the factory lower hardware and provided upper hardware. Do not tighten at this time.

Remove stock rear shocks and install the Falcon rear shocks that are provided in this kit. Do not tighten hardware at this time.



Install the wheels and lower the vehicle to the ground. Torque the lug nuts to the wheel manufacturers specs. Jounce the suspension a few times to settle to the new ride height.

Torque the track bar to 250 ft-lbs, the upper shock hardware to 30 ft-lbs and lower shock hardware to 95 ft-lbs.

Reattach the vehicle power source at the negative terminals. Have the alignment set to the factory specs by a reputable alignment shop.

Install the wheels and lower the vehicle to the ground. Torque the lug nuts to the wheel manufacturers specs. Jounce the suspension a few times to settle to the new ride height.

Torque the track bar to 250 ft-lbs, the upper shock hardware to 30 ft-lbs and lower the shock hardware to 95 ft-lbs.

Reattach the vehicle power source at the negative terminals. Have the alignment set to the factory specs by a reputable alignment shop.

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.