MAMMOTH
4x4 SUSPENSION PARTS

2.5” FRONT LEVELING KIT

(2011-2022 F-250 & F-350)

INSTALLATION INSTRUCTIONS

CONTENTS

(2) Spring Spacers
(2) Shock Absorber Brackets
(1) LH Brake Line Bracket
(1) RH Brake Line Bracket
(1) LH Brake Line Extension Bracket
(1) RH Brake Line Extension Bracket
(2) Bump Stop Spacers
(2) Sway Bar Drop Brackets
(2) M14x2.0 x 70mm Bolts
(4) M14 Flat Washers
(2) M14 Lock Nuts
(4) M10x1.50 x 40mm Bolts
(8) M10 Flat Washers
(4) M10 Lock Nuts
(2) M8x1.25 x 70mm Bolts
(2) M8x1.25 x 20mm Bolts
(6) M8 Flat Washers
(2) M8 Lock Nuts

TOOLS REQUIRED

10mm,13mm, 15mm, 18mm, 19mm, 21mm, 22mm Sockets/Wrenches
Ratchet / Breaker Bar
Pry Bars
Floor Jack
Jack Stands

SKU # SD44053

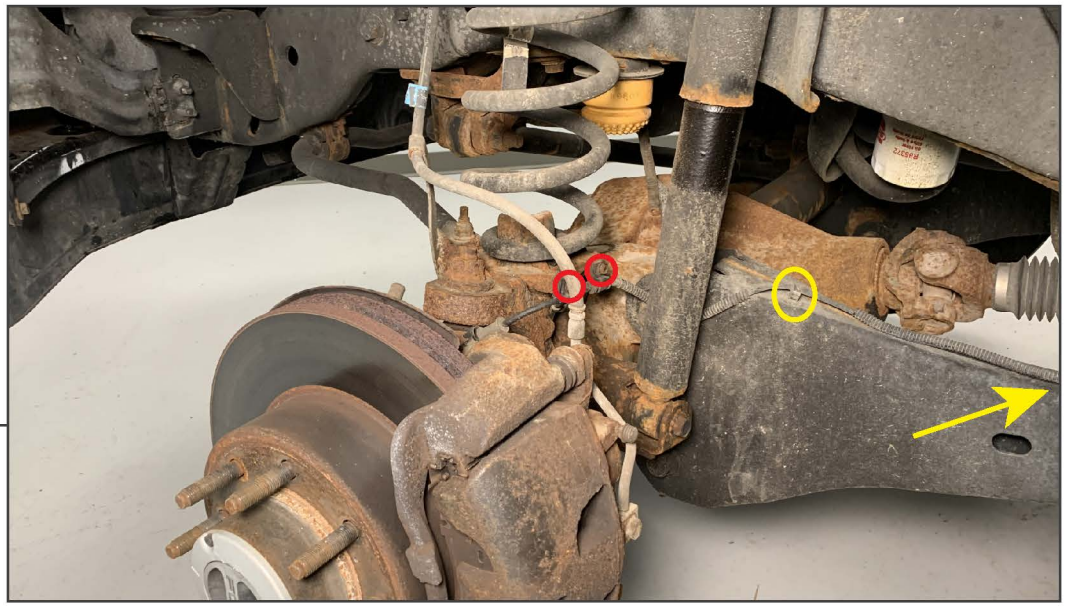
STEP 1

Lift and support the vehicle frame using a floor jack and jack stands. Once supported, remove the wheels from the vehicle. Once supported, place a floor jack under the vehicle axle with minimal pressure on the axle.

STEP 2

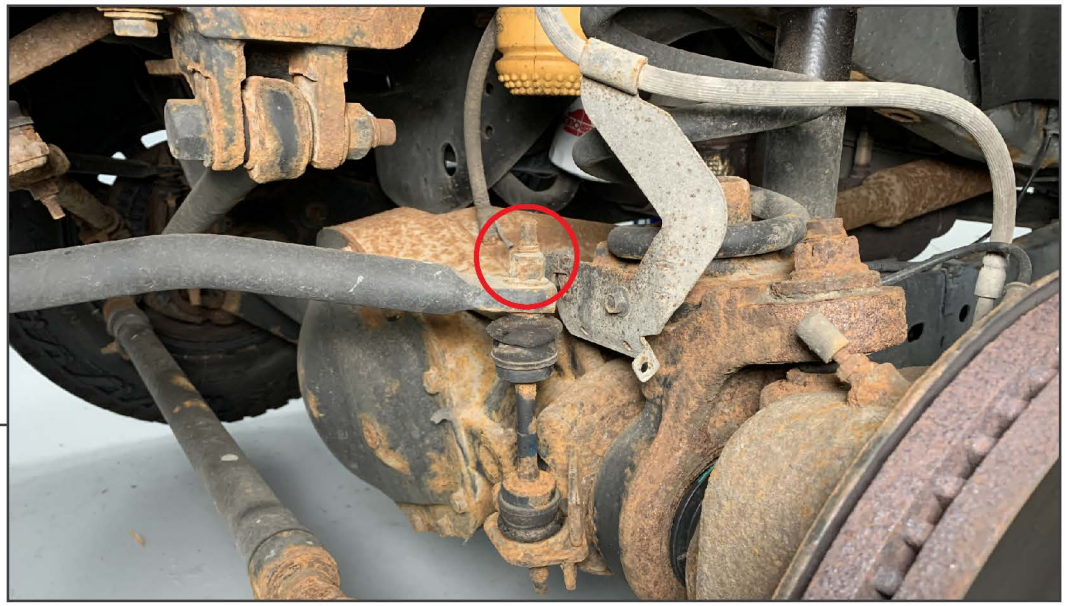
Remove (1) 10mm bolt from the brake line mounting bracket.

STEP 3



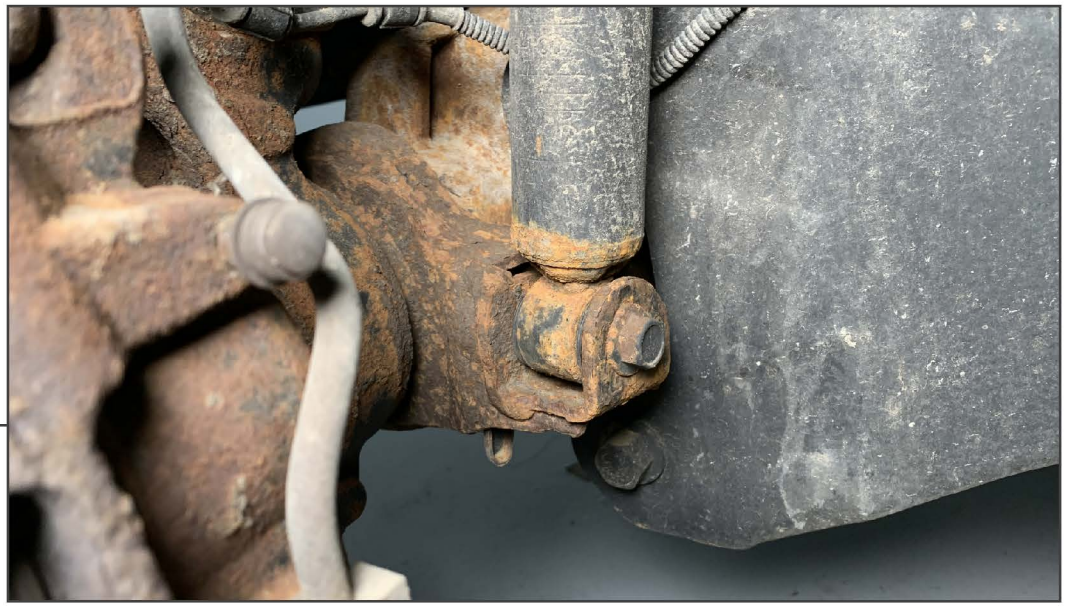
Remove (2) 10mm bolts from the ABS sensor wiring, and release the wiring from the control arm retainers.

STEP 4



Remove (1) 18mm nut from the top of the sway bar link.

Repeat this step for the opposite side of the vehicle.



STEP 5

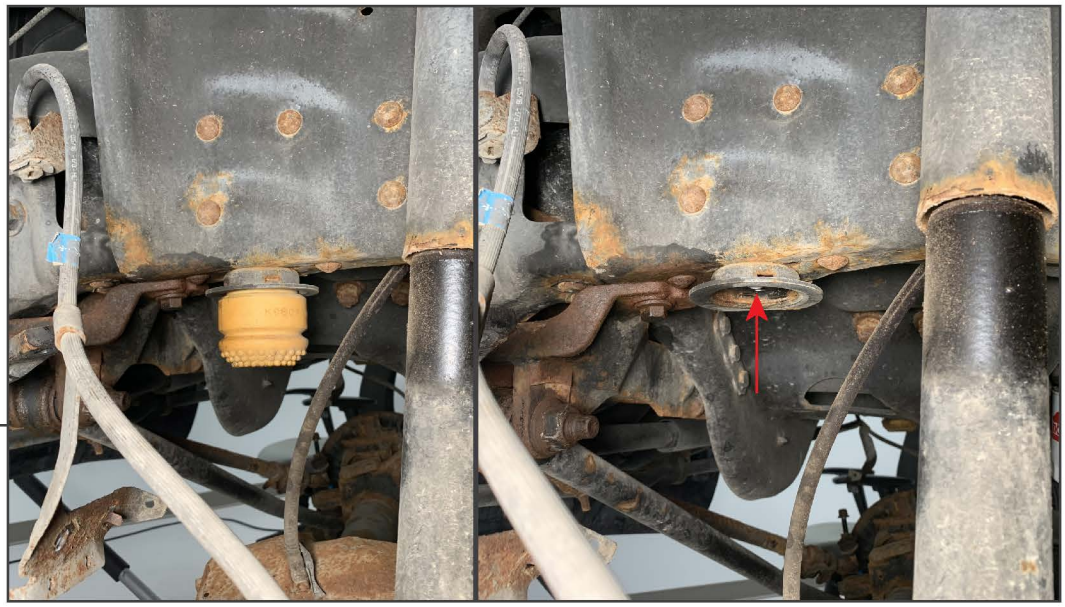
Remove (1) 18mm bolt from the bottom of the shock absorber.

Hardware will be reused during assembly.

STEP 6

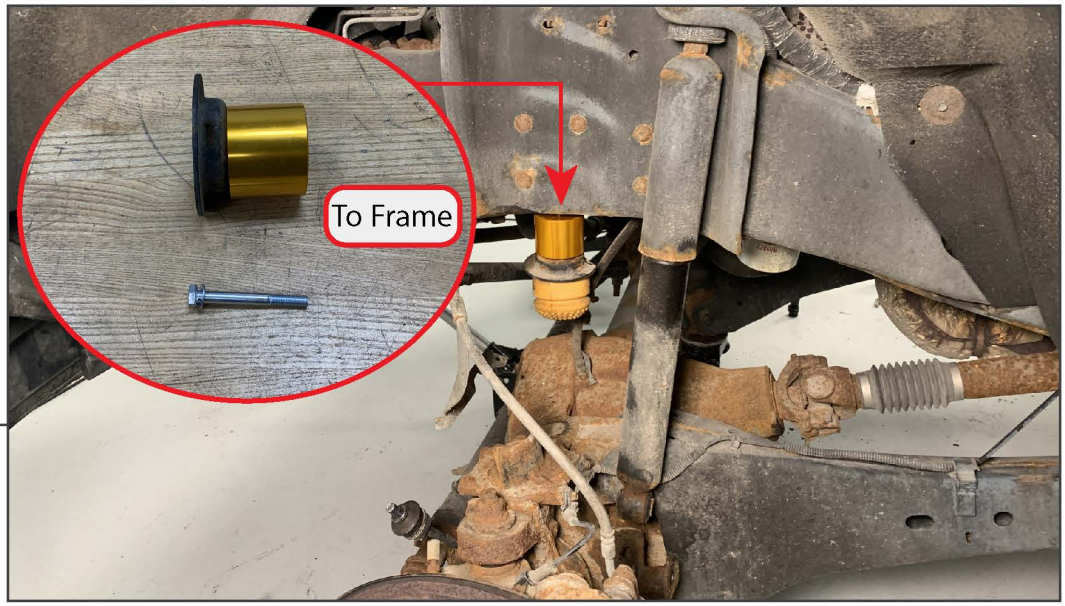
Lower the floor jack under the axle to lower the axle downwards. Remove the coil spring and the coil spring isolator from the vehicle.

STEP 7



Firmly pull down on the yellow bump stop to remove it from the carrier. Remove the bump stop carrier from the frame by removing (1) 10mm bolt.

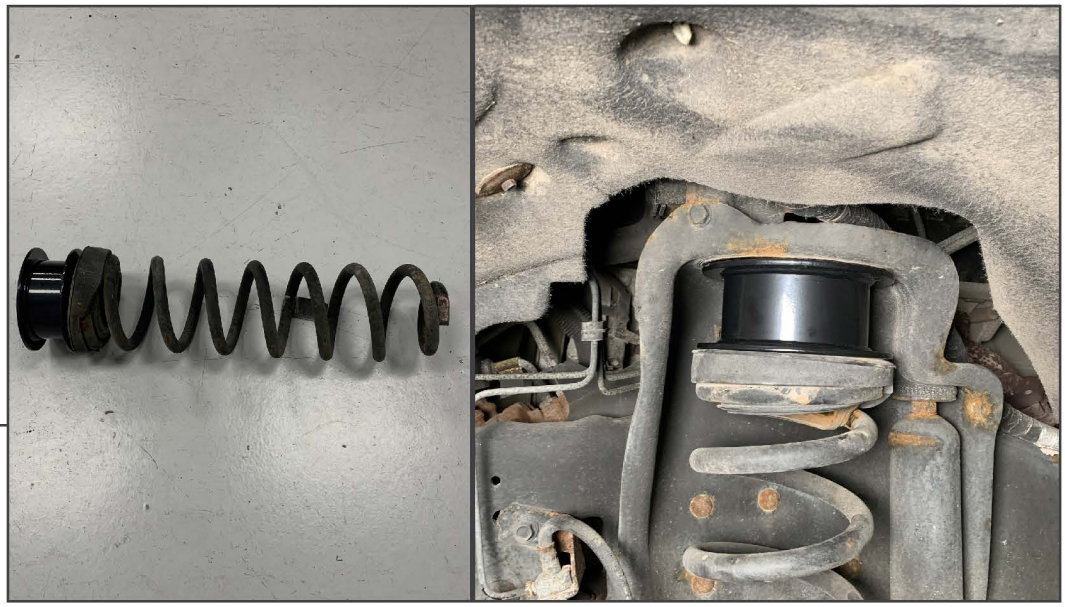
STEP 8



Place (1) bump stop spacer on top of the bump stop retainer. Use (1) M8 x 70mm bolt, and (1) M8 flat washer to secure the assembly to the vehicle frame. Once secure, re-install the OEM yellow bump stop.

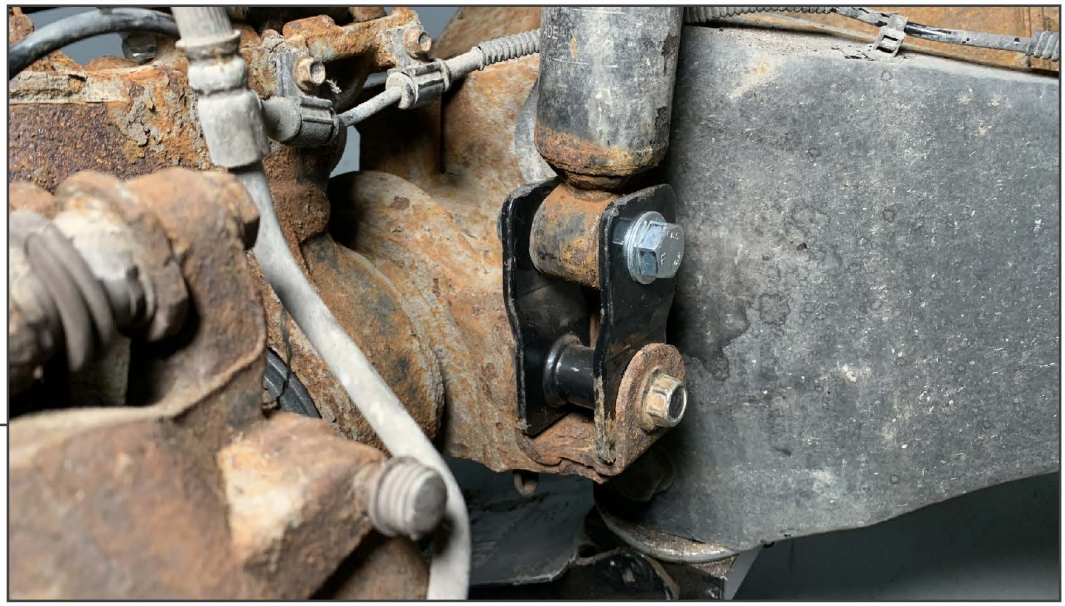
Note: The bump stop spacers are directional, the alignment cutout in the spacer fits the alignment notch in the bump stop retainer.

STEP 9



Place (1) coil spring spacer above the coil spring and spring isolator. Install the coil spring assembly into the vehicle. Ensure the bottom of the coil spring fits to the notch.

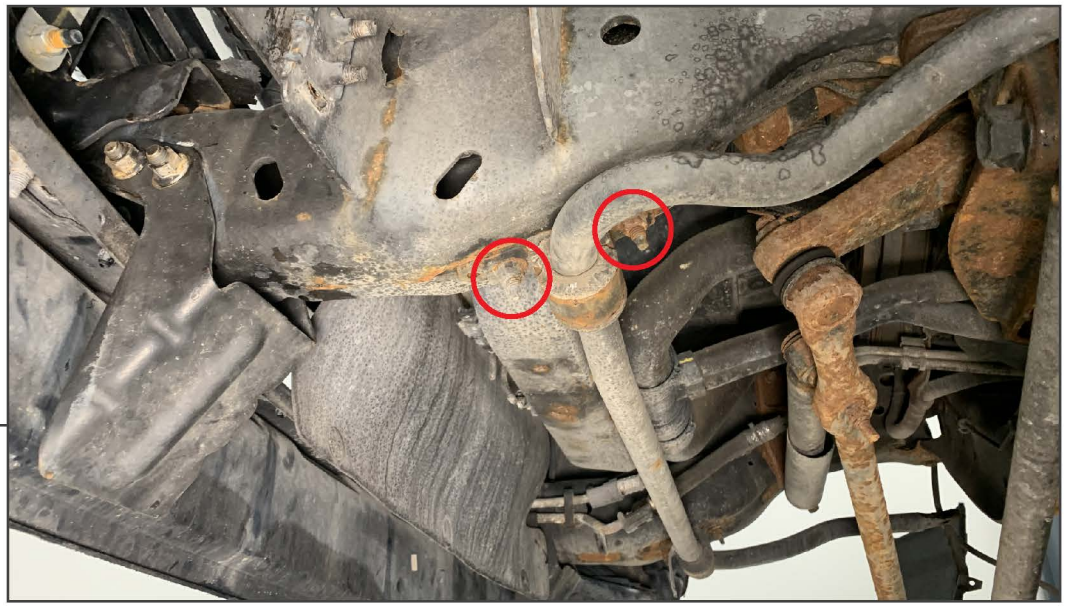
STEP 10



Install (1) shock absorber bracket to the vehicle shock absorber using (1) M14 x 70mm bolt, (2) M14 flat washers, and (1) M14 lock nut, tighten until secure. Install the shock absorber bracket into the vehicle axle using the original 18mm bolt.

Note: Prying the shock mounting ears on the axle may be required to allow the bracket to fit properly.

STEP 11



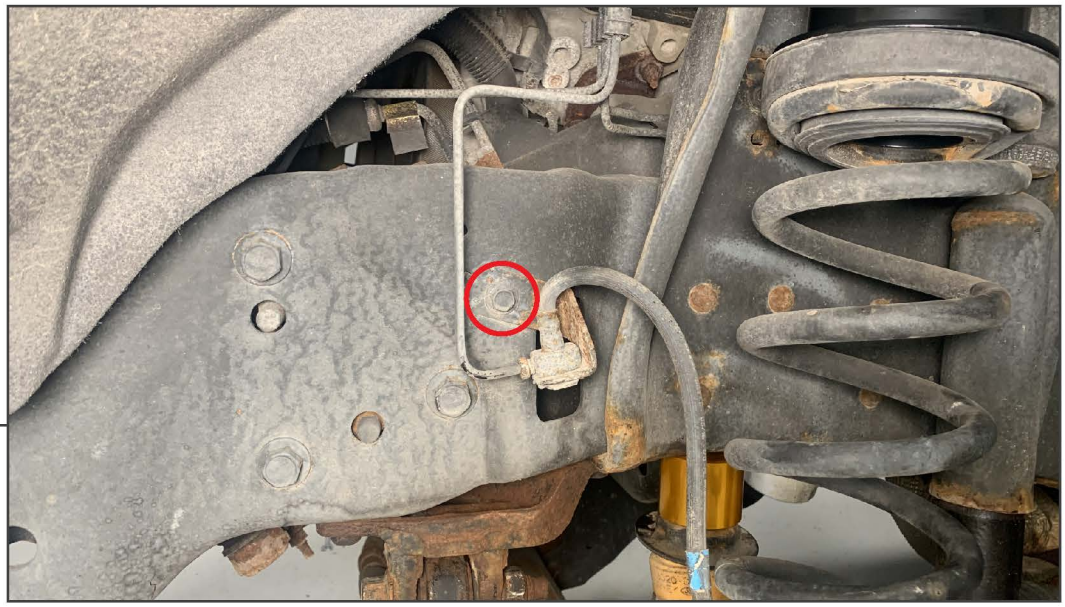
Remove (2) 15mm nuts from the sway bar mount, and allow the sway bar to lower.

STEP 12

Install (1) sway bar drop bracket to the vehicle frame, and secure using the original (2) 15mm nuts. Secure the sway bar to the drop bracket using (2) M10 x 40mm bolts, (4) M10 flat washers, and (2) M10 lock nuts. Repeat this step for the opposite side of the vehicle.

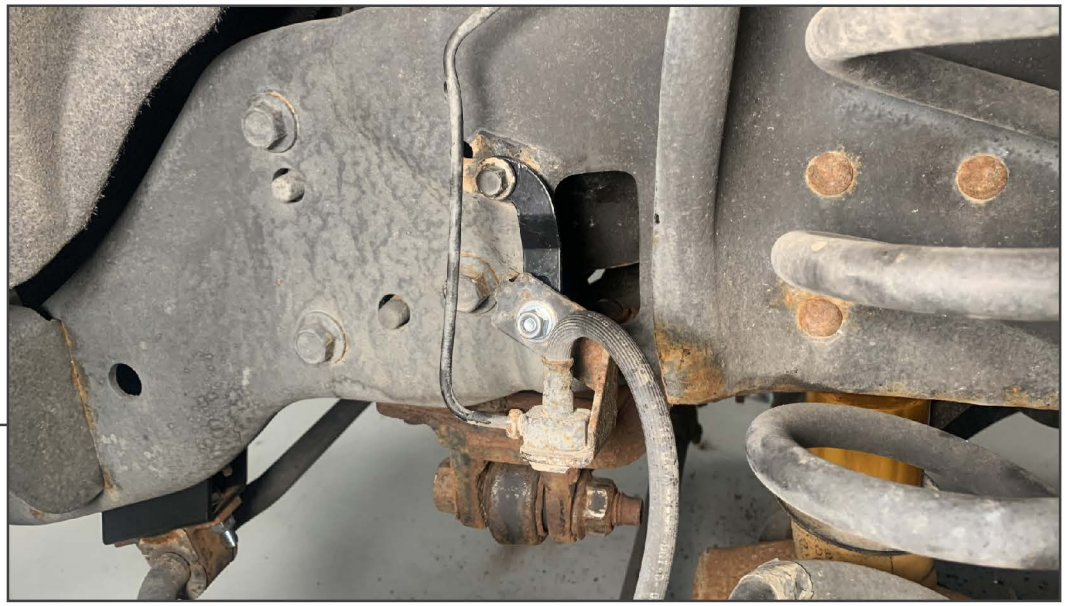
Once the sway bar drop brackets are installed and secure, re-connect the sway bar links on both sides of the vehicle using the original 18mm nuts.

STEP 13



Remove (1) 13mm bolt securing the brake line to the frame.

STEP 14



Massage the brake line downwards, and install (1) brake line extension bracket to the brake line using (1) M8 x 20mm bolt, (2) M8 flat washers, and (1) M8 lock nut. Once attached, secure the brake line extension to the frame using the original 13mm bolt. Re-install the brake line bracket to the axle using the original hardware.

Note: Depending on vehicle year, changing the existing brake line bracket to the provided brake line bracket may be necessary.

STEP 15

Repeat steps 1-14 to the opposite side of the vehicle.

Installation is now complete.

TORQUE SPECIFICATIONS

Sway Bar Link Nuts: 52 ft./lbs.
Sway Bar Mounting Nuts: 35 ft./lbs.
Lower Shock Absorber Bolt: 111 ft./lbs.

Prior To Driving:
- Ensure all components and hardware is tight and secure.
- Professional Steering Alignment.
- Headlight Alignment.
- Ensure brake line slack when sway bars are disconnected.
- Ensure front driveshaft clearance with sway bars disconnected.

Maintenance:
- First 200 miles, re-torque all fasteners.
- Every 3000 miles, re-torque all fasteners & visually inspect suspension bushings for premature wear.

Special Consideration:
With any changes to the factory suspension geometry, there will be increased wear and tear to items such as suspension bushings, etc. Ensure vehicle safety by frequently inspecting wear and tear components.