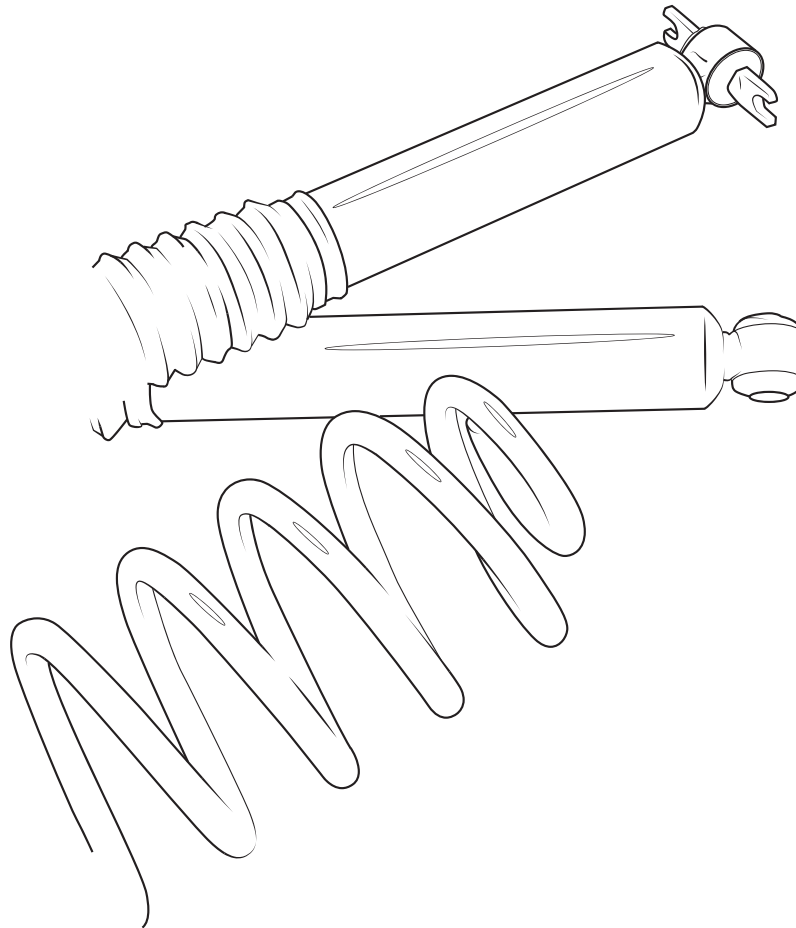




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2.5" DUALSPORT XT SUSPENSION





PLEASE READ BEFORE YOU START

TO GUARANTEE A QUALITY INSTALLATION, WE RECOMMEND READING THESE INSTRUCTIONS THOROUGHLY BEFORE BEGINNING ANY WORK. THESE INSTRUCTIONS ASSUME A CERTAIN AMOUNT OF MECHANICAL ABILITY AND ARE NOT WRITTEN NOR INTENDED FOR SOMEONE NOT FAMILIAR WITH AUTO REPAIR.

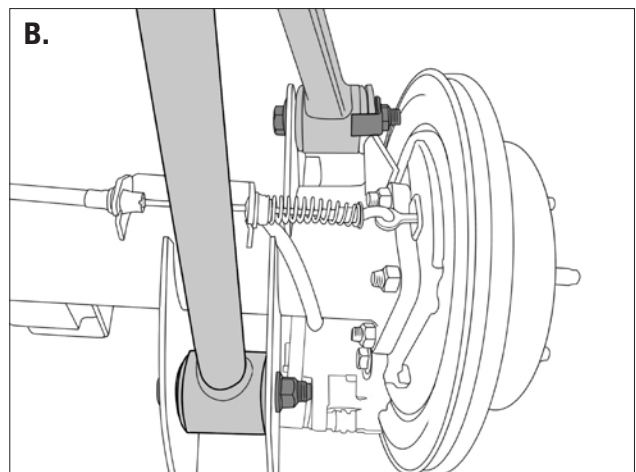
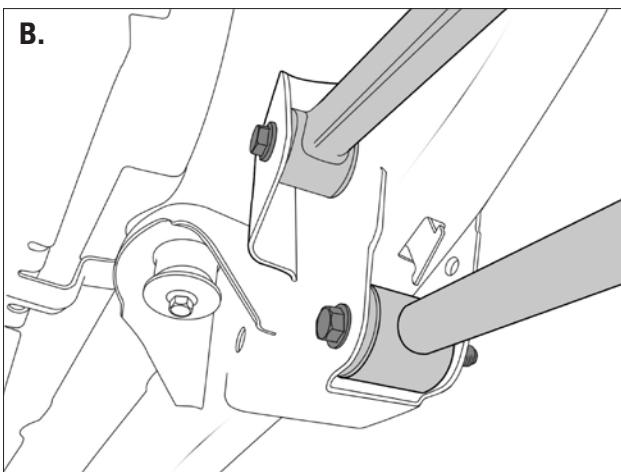
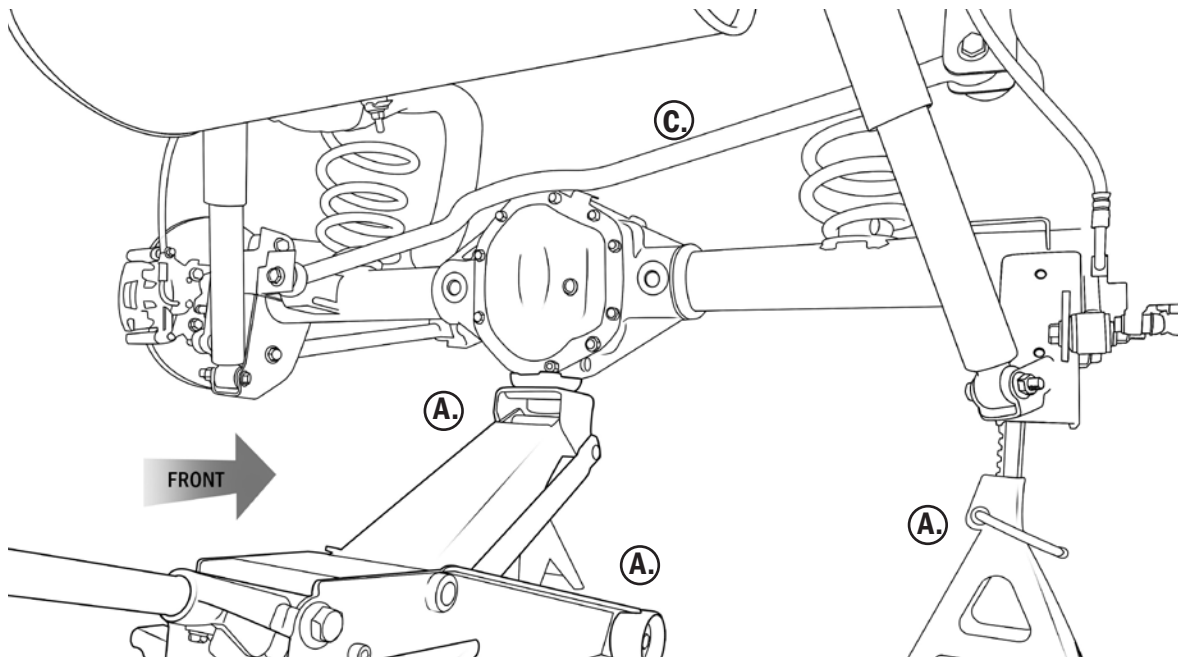
INCLUDED PARTS	QTY	REQUIRED TOOLS
Springs	4	Basic Standard and Metric hand tools
Shocks	4	3/8-in Drill Bit
Bump Stop Spacer Kit	1	
Rear Track Bar (LHD system only)	1	
Rear Track Bar Tower	1	
Brake Line Drop Bracket Set	1	
Front Stabilizer End Link Relocation Brackets	2	



REAR SUSPENSION

1.

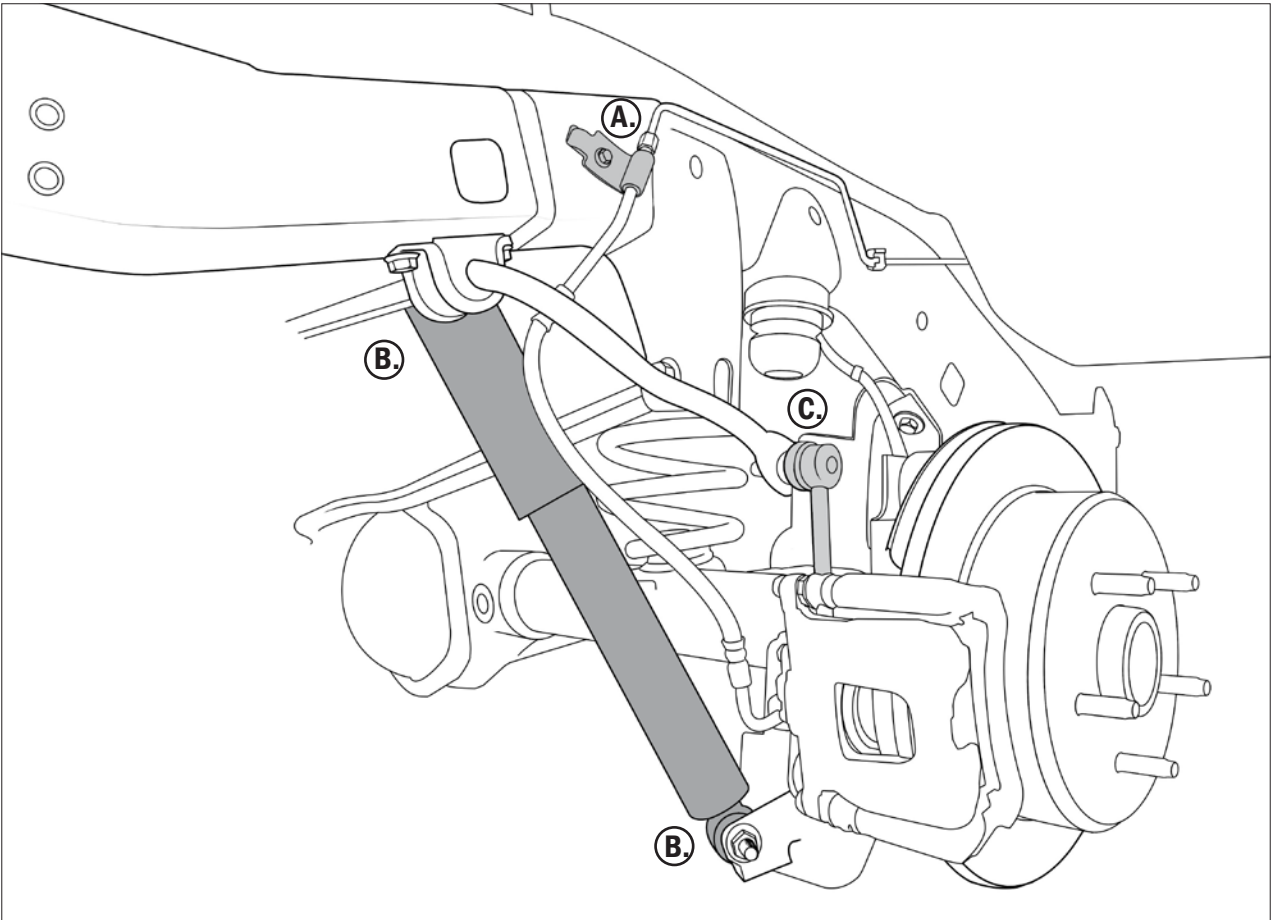
- A. Raise Jeep and support the frame using jack stands or a hoist, such that the rear axle can be lowered enough to remove the springs. Support the axle by placing floor jack under the center of the axle. Remove the wheels.
- B. Loosen but DO NOT remove all 8 control arm bolts.
- C. Remove the track bar. (NOTE: Right hand drive vehicles will reuse the factory track bar)





2.

- A. Remove the bolts that hold the brake lines to the frame.
- B. Remove the shocks.
- C. Remove the swaybar end links.

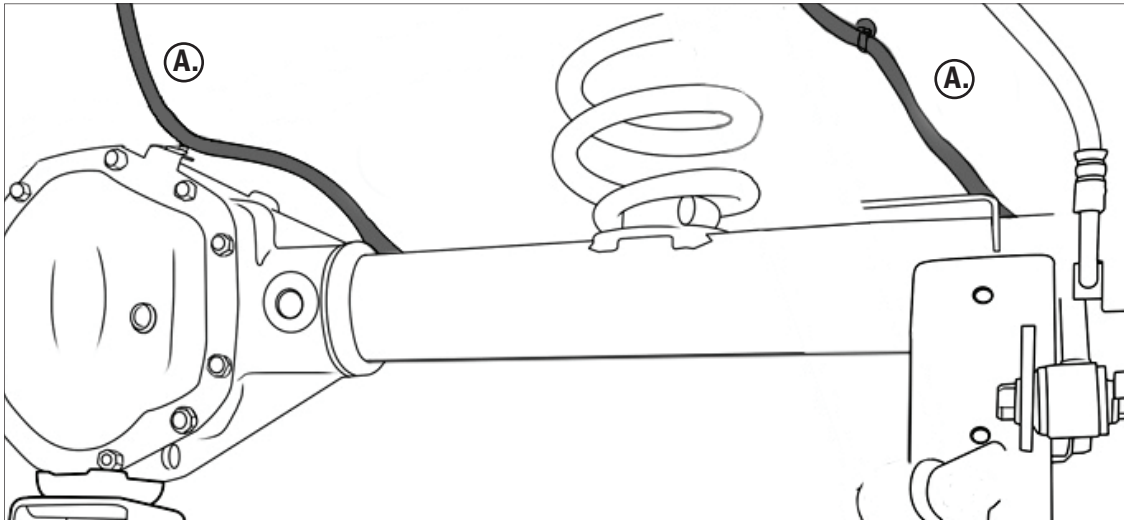




3.

Carefully lower the axle using the floor jack enough to remove the springs. DO NOT overextend the wheel speed sensor or locker wiring (A).

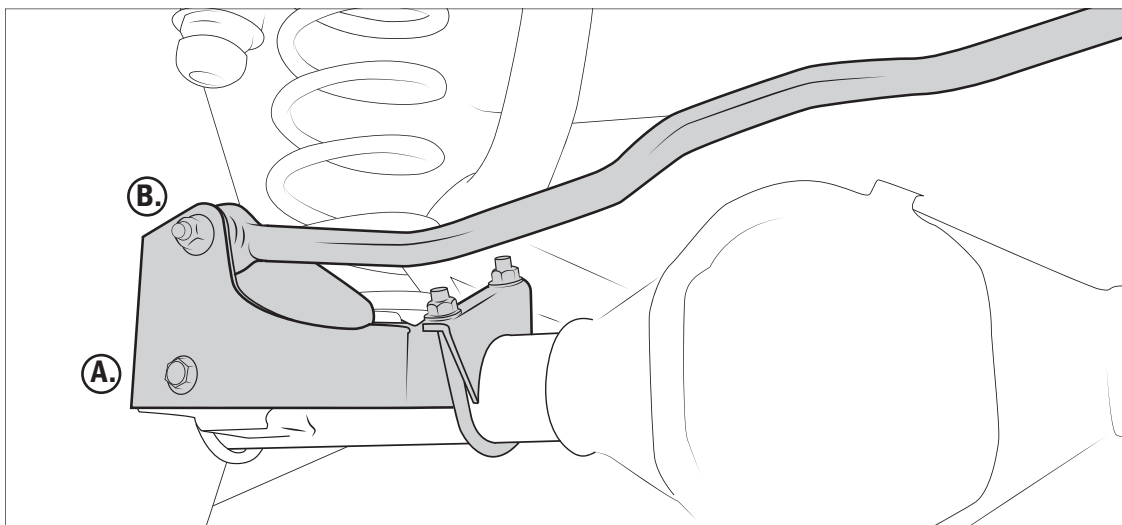
Remove the factory springs.



4.

Install the track bar tower. Tightening U-bolt to 80 ft lbs. Use supplied bolt and washer in bottom hole (A) and tighten to 80 ft lbs. Install the new AEV track bar reusing the factory hardware to install the track bar, reversing the direction of the hex bolt as shown (B). DO NOT tighten at this point. (NOTE: for right hand drive vehicles, reinstall factory track bar)

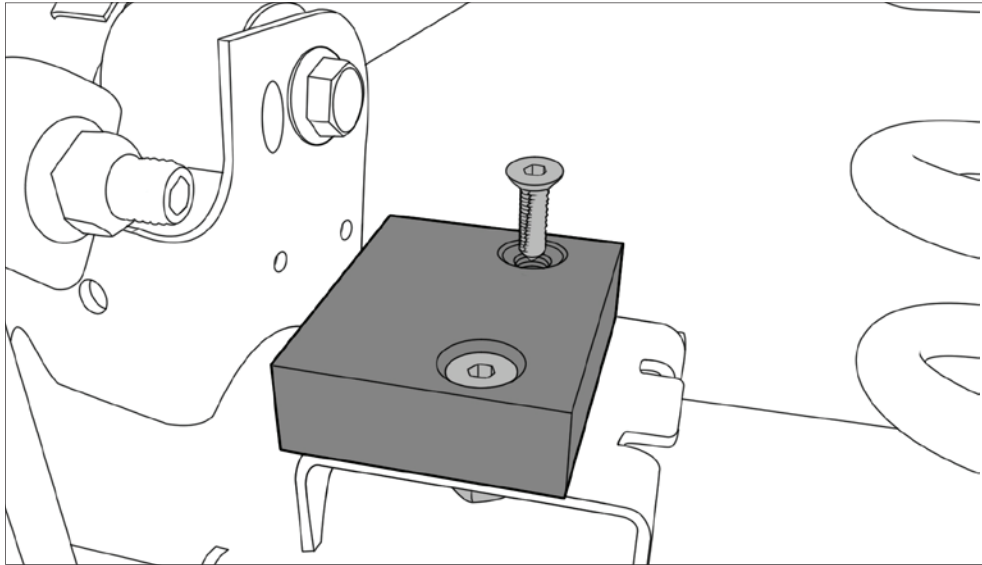
Install AEV springs making sure to properly index them on the axle spring seat.





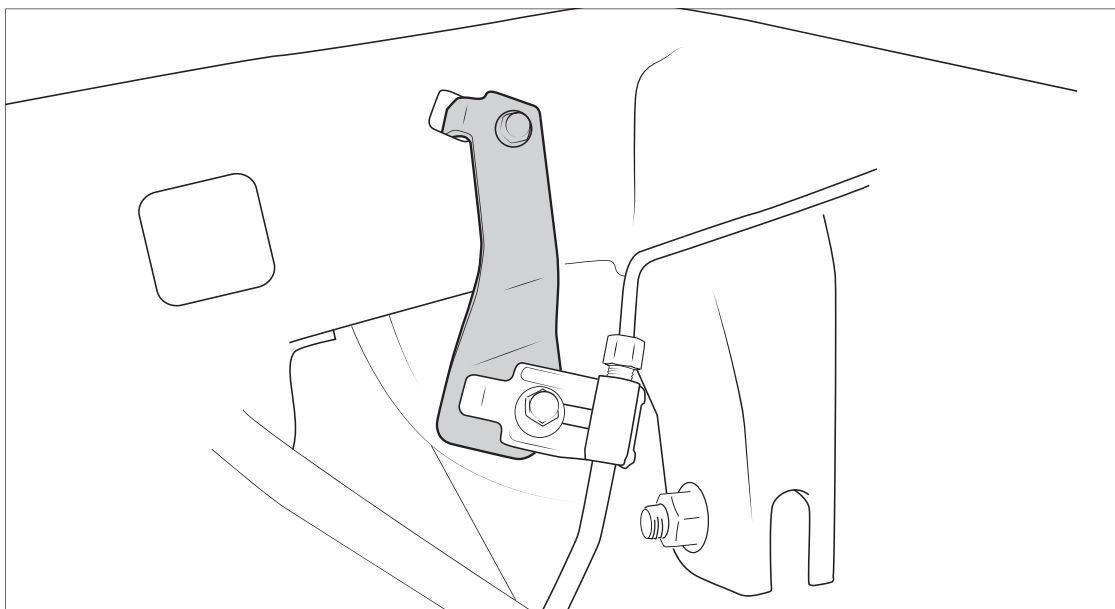
5.

Install new Bump Stop Spacers on axle as shown using the supplied hardware. DO NOT reverse the orientation from what is shown.



6.

Install new shocks at upper mount. Raise axle slowly and guide springs into position. Re-install swaybar end links and tighten to 60 ft lbs (refer to step 2C.) Re-install lower shock nut and bolt, tighten to 56 ft lbs (refer to step 2B.) Install brake line drop brackets as shown below, tighten to 8 ft lbs. Reinstall wheels and tighten lug nuts, working in a star pattern, to 105 ft lbs.

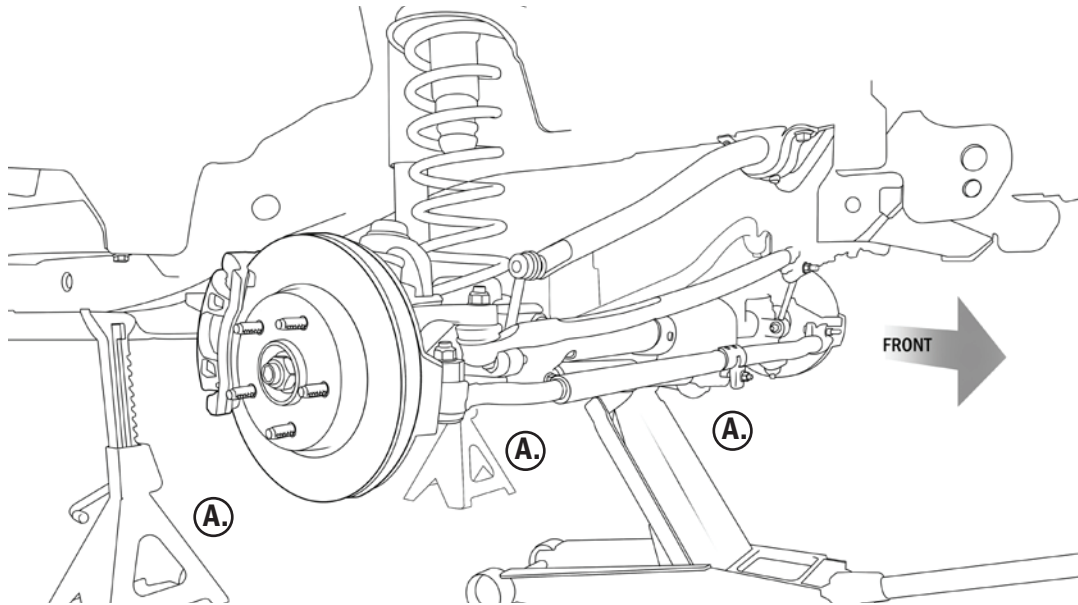




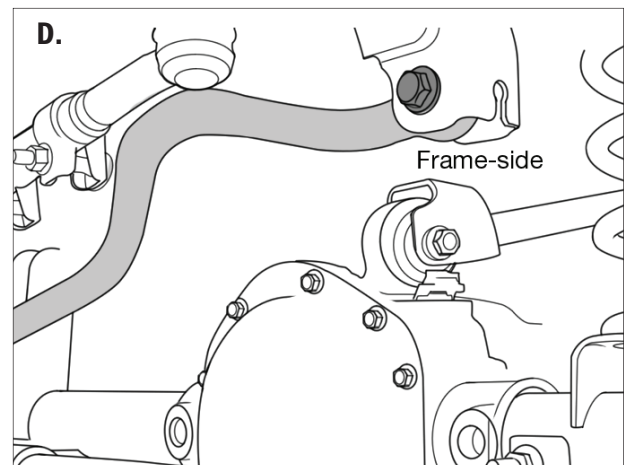
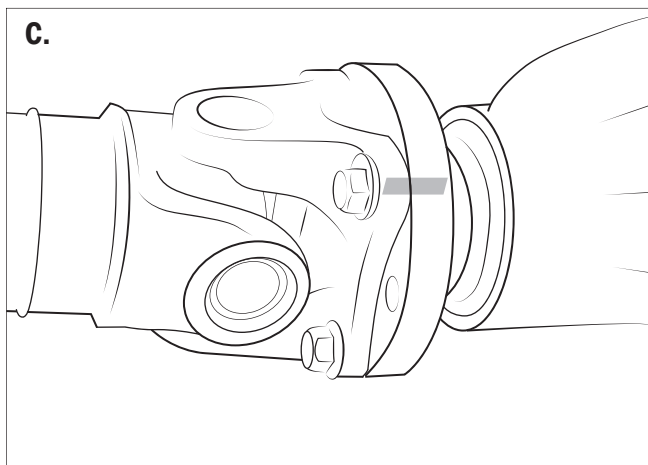
FRONT SUSPENSION

7.

- A. Raise Jeep and support the frame using jack stands or a hoist, such that the front axle can be lowered enough to remove the springs. Support the axle by placing floor jack under the center of the axle. Remove the wheels.



- B. Loosen but DO NOT remove all 8 control arm bolts.
- C. Disconnect the drive shaft. Make sure to mark both sides of the connection so you can properly align it when you reconnect it. Tie loose end of the drive shaft up so it will not hang down, failure to do so may result in damage to your drive shaft.
- D. Loosen but DO NOT remove the frame-side track bar bolt. Remove and save the axle-side track bar bolt and flag nut.

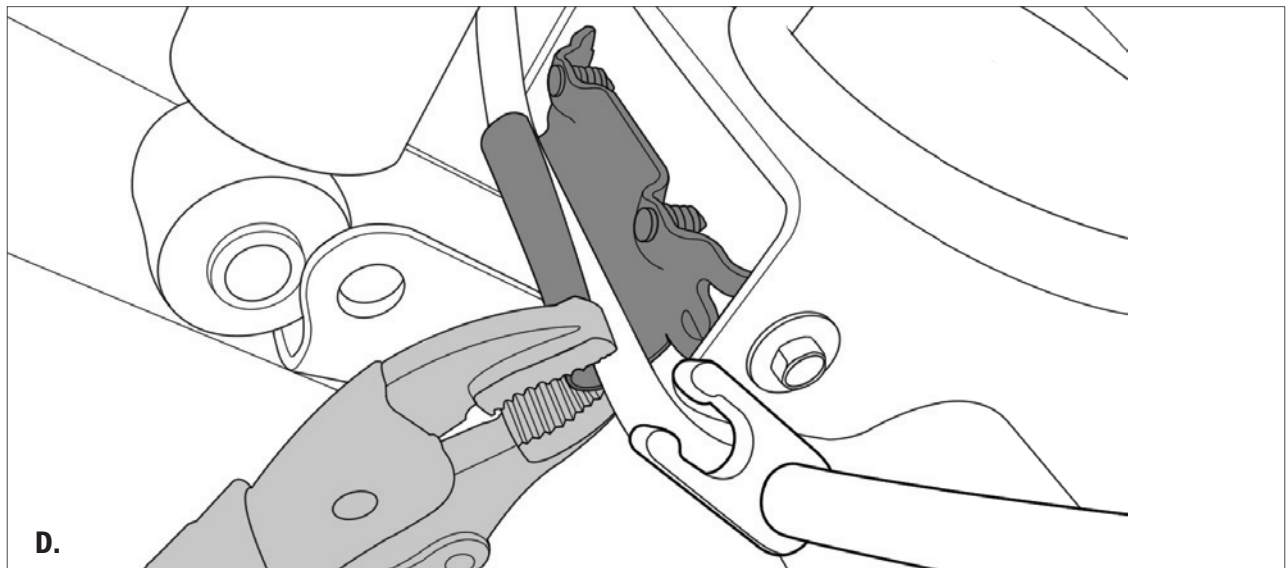
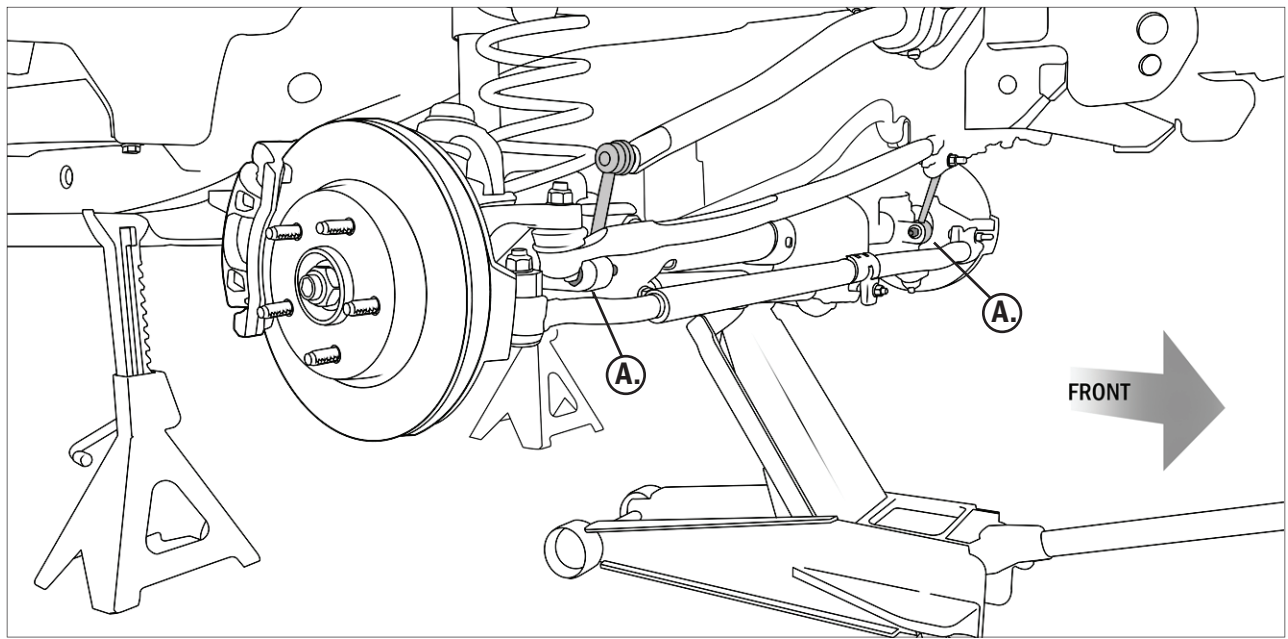




8.

Note: On Rubicon models, remove the push pins holding the speed sensor wiring to the frame and upper control arm.

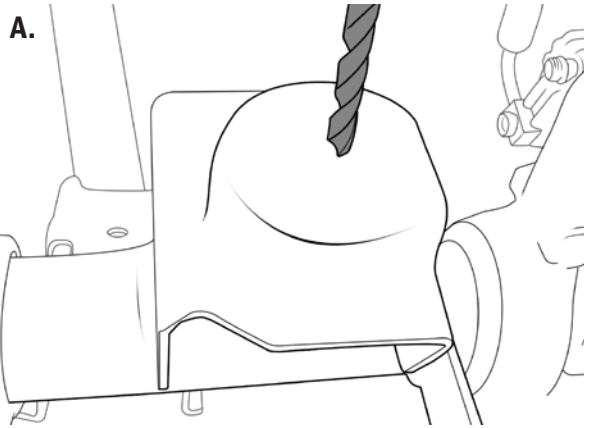
- A. Remove and save all anti-sway bar link hardware.
- B. Remove shocks and save all shock mounting hardware.
- C. Lower axle and remove springs. DO NOT remove factory isolator.
- D. For 2011 or newer models, remove and discard factory bracket from the brake line.





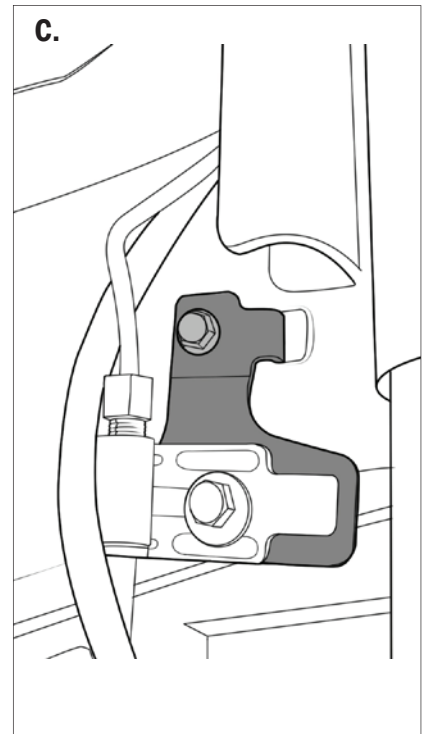
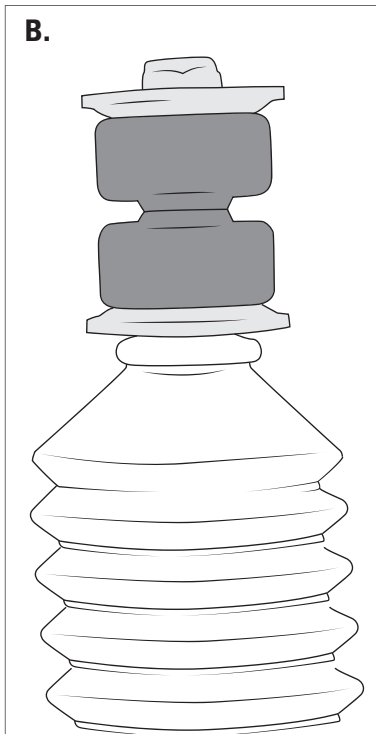
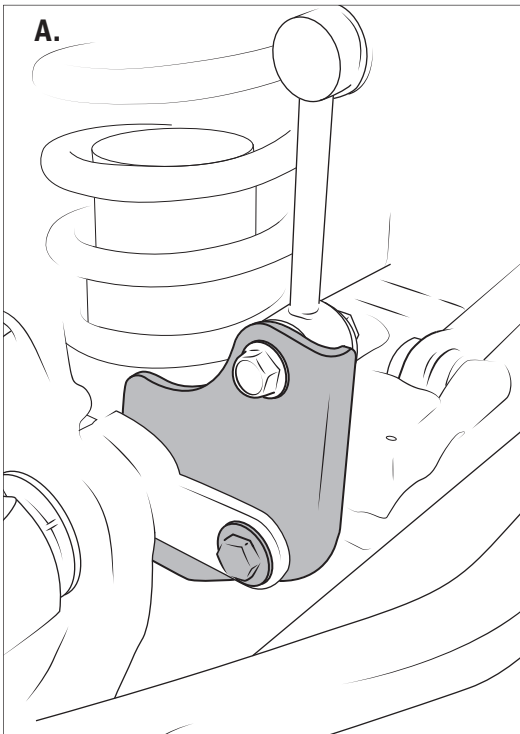
9.

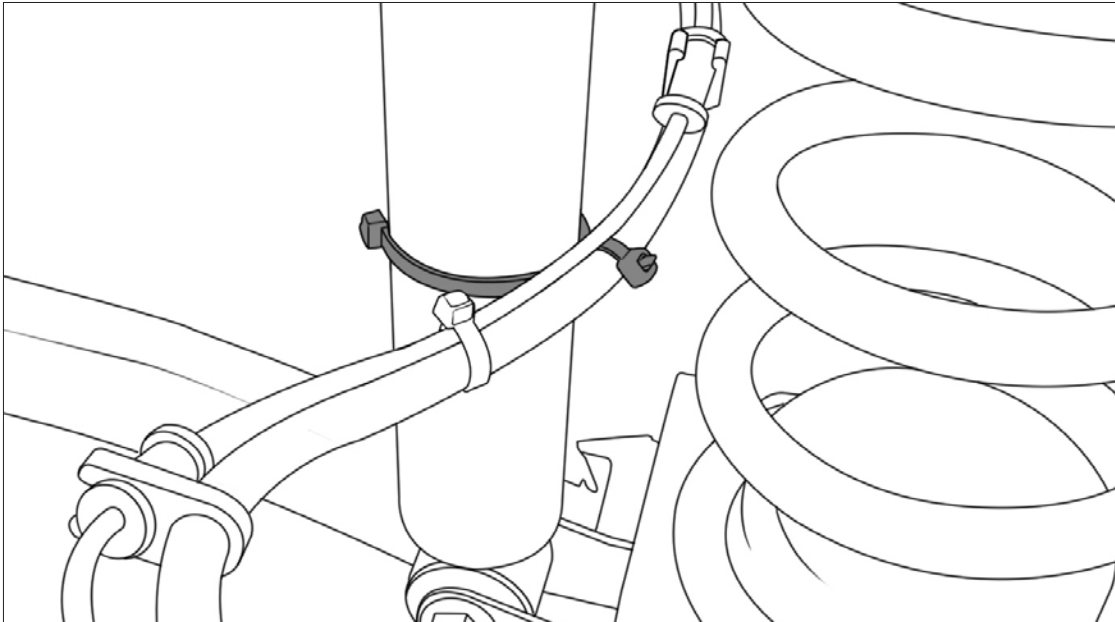
- A. Drill a 3/8 inch hole in the center of the axle bump stop pad.
- B. Place bump stop spacer inside springs.
- C. Install AEV springs, keeping factory isolator in place. Make sure to properly index the springs on the lower spring seat.
- D. Install and tighten supplied bump stop spacer hardware.



10.

- A. Install new sway bar end link brackets and tighten to 80 ft lbs.
- B. Assemble shocks with bushings and washers in the arrangement shown below then install shocks. Use an allen wrench to keep the shock from rotating while tightening the hex nut.
- C. For 2007–2010 model year JK's install the front brake line drop brackets tightening to 8 ft lbs. (2011 or newer refer to step 11)





11.

For 2011 and newer models, use supplied zip ties to secure the brake line to the shock as shown.

Reinstall wheels and tighten lug nuts, working in a “star pattern.” Place Jeep on level ground. Reconnect the drive shaft making sure to properly align your marks. Tighten all fasteners listed below to factory specifications.

Front

Upper control arm bushings: 75 ft lbs.

Lower control arm bushings: 125 ft lbs.

Track bar bushing frame: 105 ft lbs.

Track bar bushing axle: 105 ft lbs.

Rear

Upper control arm bushings: 125 ft lbs

Lower control arm bushings: 125 ft lbs

Track bar bushing frame: 105 ft lbs.

Track bar bushing axle: 105 ft lbs.