



# 2 INCH SPACER SUSPENSION FOR JL WRANGLER

AEV30326AC

Last Updated: 12/06/21

INSTALLATION GUIDE



## PLEASE READ BEFORE YOU START

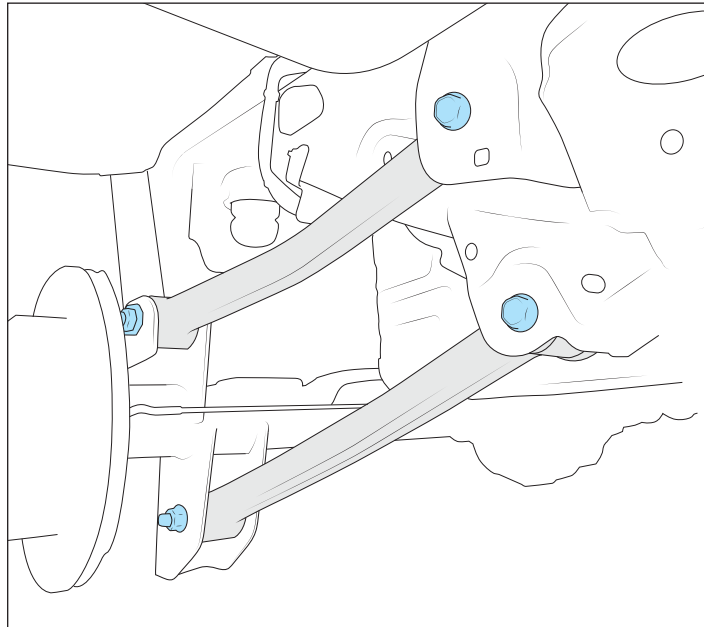
To guarantee a quality installation, we recommend reading these instructions thoroughly before beginning any work. These instructions assume a certain amount of mechanical ability and are not written nor intended for someone not familiar with auto repair.

INCLUDED PARTS	QTY	REQUIRED TOOLS
Front Spring Spacer	2	Common Hand Tools
Rear Spring Spacer	2	Floor Jack
Front Sway Bar End Links	2	Jack Stands
Front Shock Bracket	2	
Rear Shock Bracket	2	
Front Bumpstop Spacer	2	
Rear Bumpstop Spacer	2	
Hardware Pack	1	

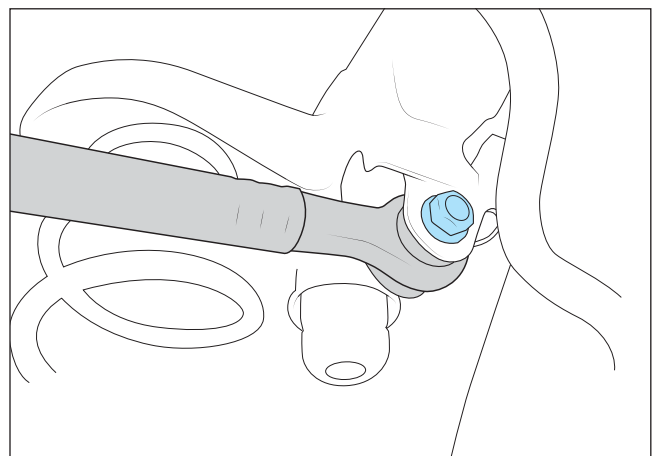
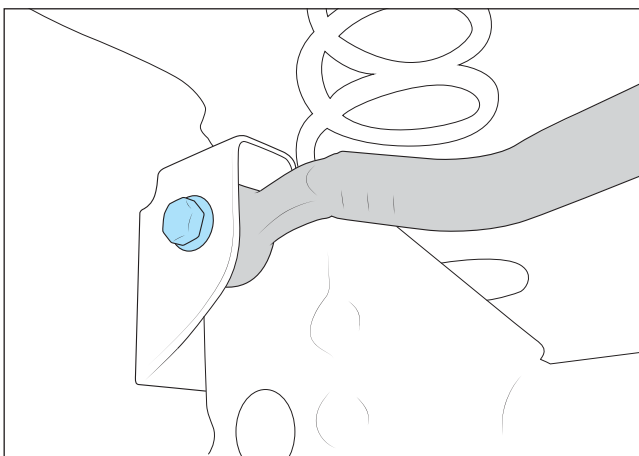


## I. REAR SUSPENSION

1. Raise the Jeep, supporting the frame using jack stands or a hoist, so that the rear axle may be lowered enough to remove the springs. Support the axle using a floor jack under the center of the axle.
2. Remove the wheels.
3. Loosen but DO NOT REMOVE all 8 control arm bolts (fig. 1).
4. Loosen but DO NOT REMOVE the Track Bar hardware (fig. 2).



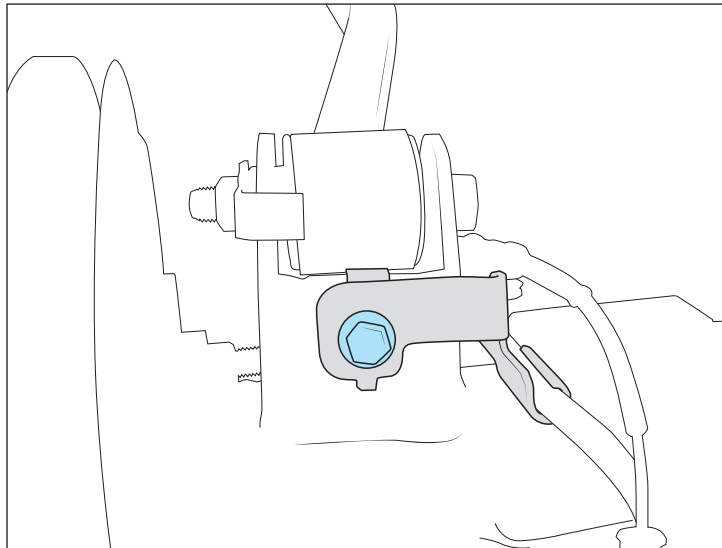
*Figure 1: Left side shown.*



*Figure 2: Axle side (left) Frame side (right)*

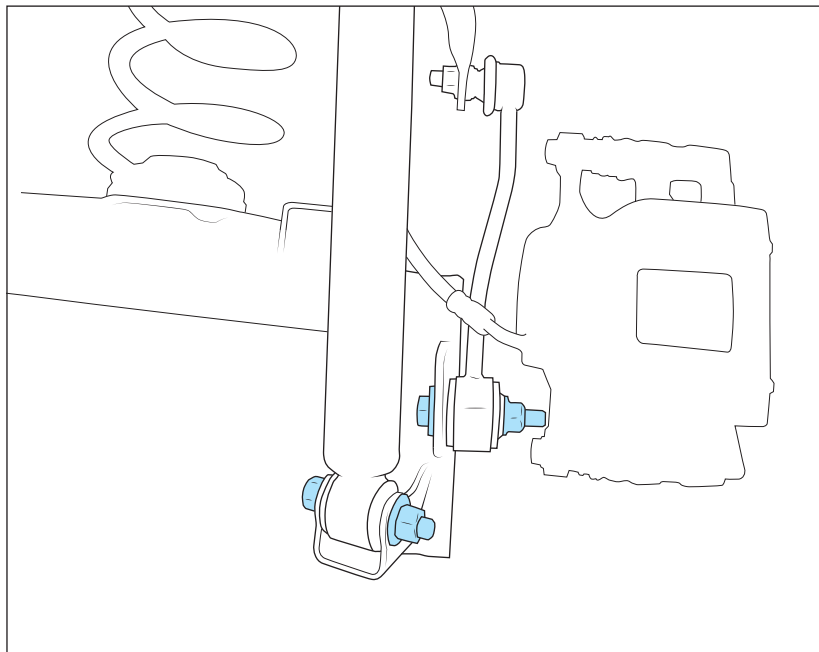


5. Unbolt the brake line brackets from each side at the axle (fig. 3).



*Figure 3*

6. Remove the lower bolts from the shocks and sway bar end links SAVE HARDWARE (fig. 4).

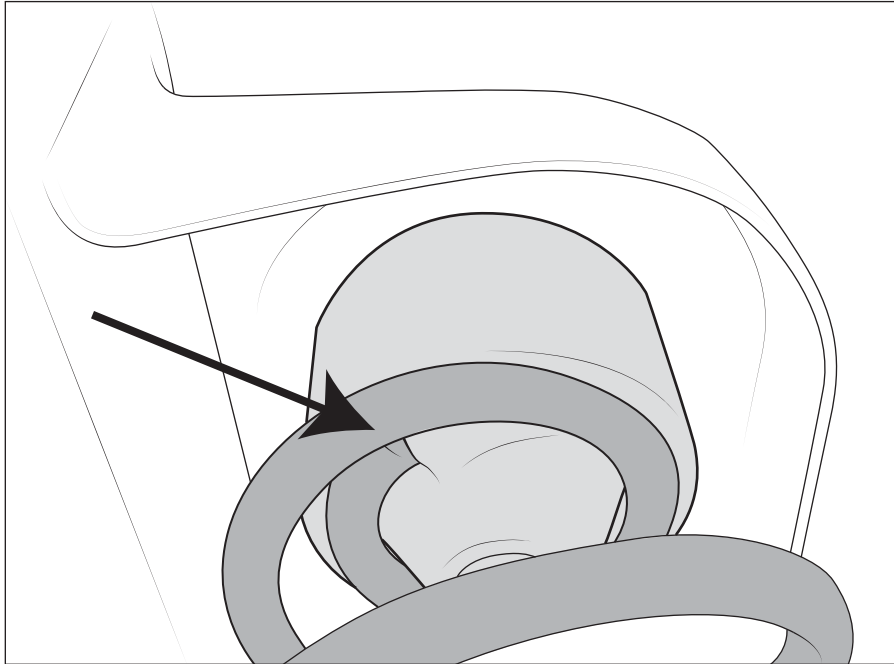


*Figure 4*

7. Carefully lower the axle until you can remove the springs. Use CAUTION not to overextend the e-brake or other wiring. Remove the factory isolator from the top of each spring (isolator will not be reused).

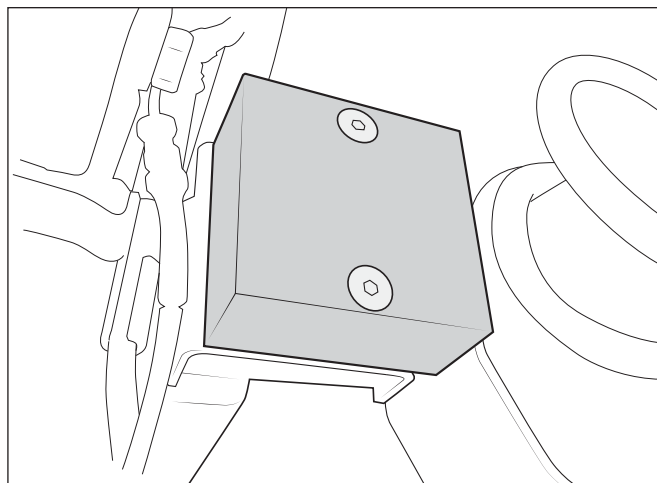


8. Reinstall the spring with the AEV Spring Spacer (inserting molded pin on top of the spacer into the hole in the frame). Be sure the spring is properly seated into the notch on the AEV spacer (fig. 5). Raise the axle to keep in place.



*Figure 5*

9. Install AEV bump stop spacers on the axle using the supplied M10 flat head, countersunk bolts and flange nuts (fig. 6).



*Figure 6*



10. Install the AEV Shock Extension brackets as shown. Feed M10 button head with washer through the bottom of the bracket. Place square washer inside the factory shock bracket and install nut. Re-install lower shock hardware (fig. 7). You may need to pull the shock body downward to reach the shock bracket. This is normal due to internal shock bumpers.

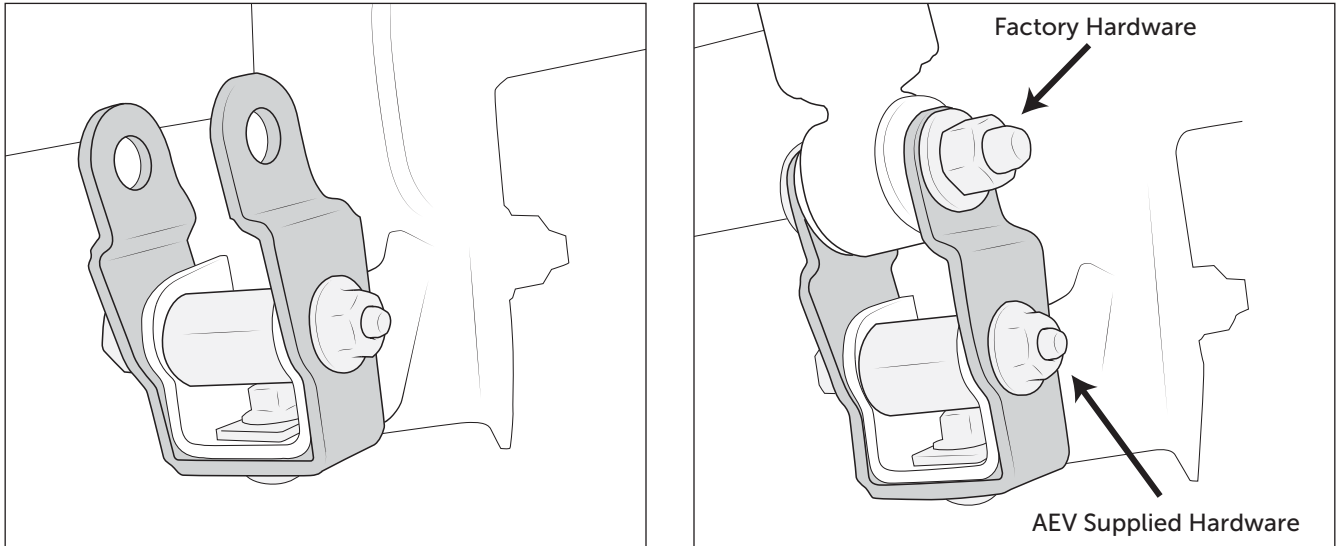


Figure 7

11. Re-install lower sway bar end link, brake line brackets, and wheels using factory hardware.

## II. FRONT SUSPENSION

1. Raise the Jeep, supporting the frame using jack stands or a hoist, so that the rear axle may be lowered enough to remove the springs. Support the axle using a floor jack under the tube next to the differential casting.
2. Remove the wheels.
3. Loosen but DO NOT REMOVE all 8 control arm bolts (fig. 8).
4. Loosen but DO NOT REMOVE track bar bolts (fig. 9).

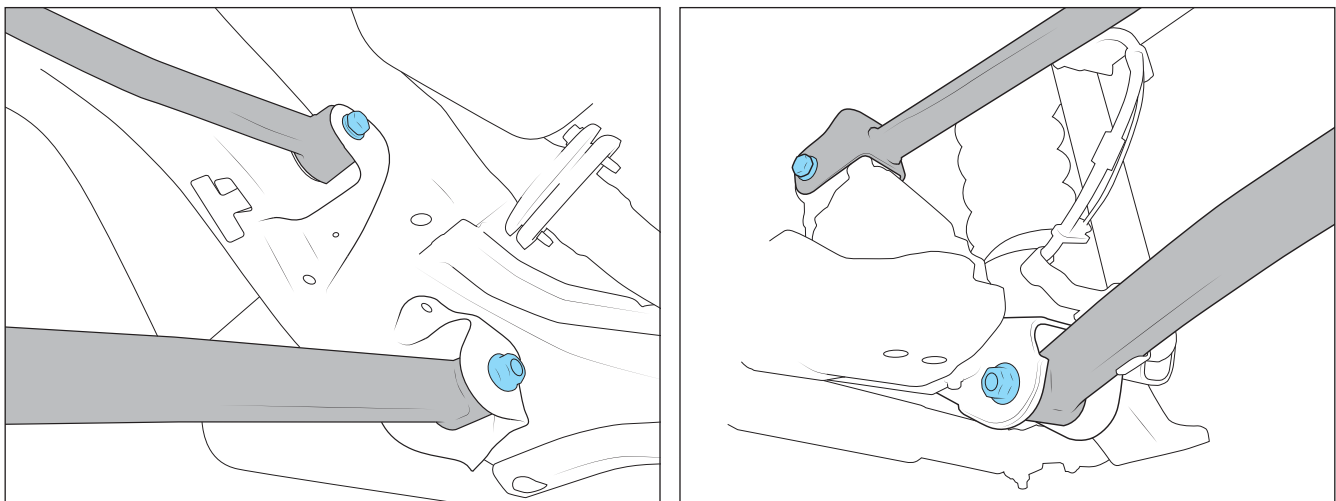
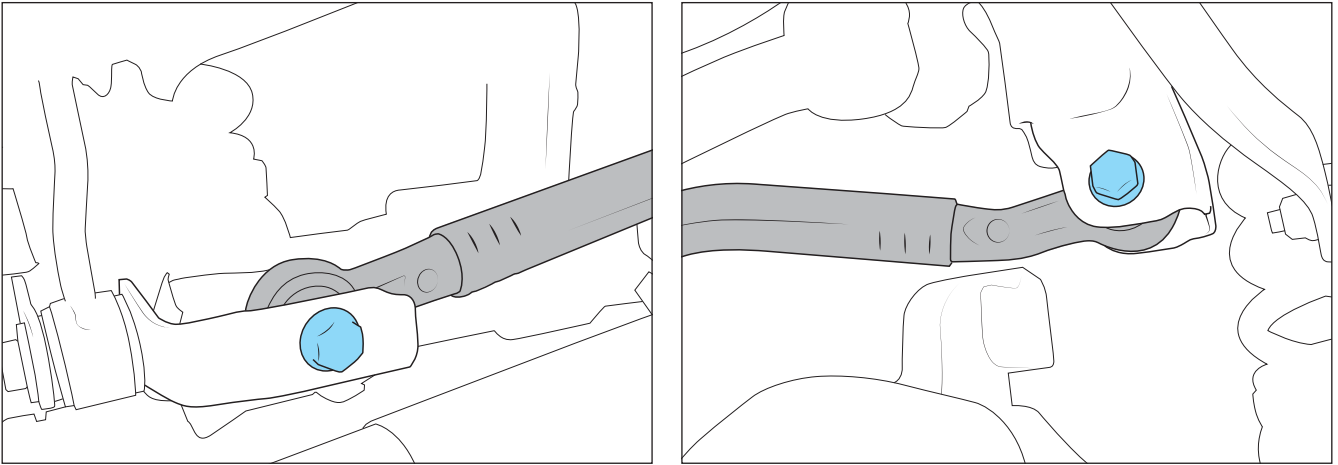
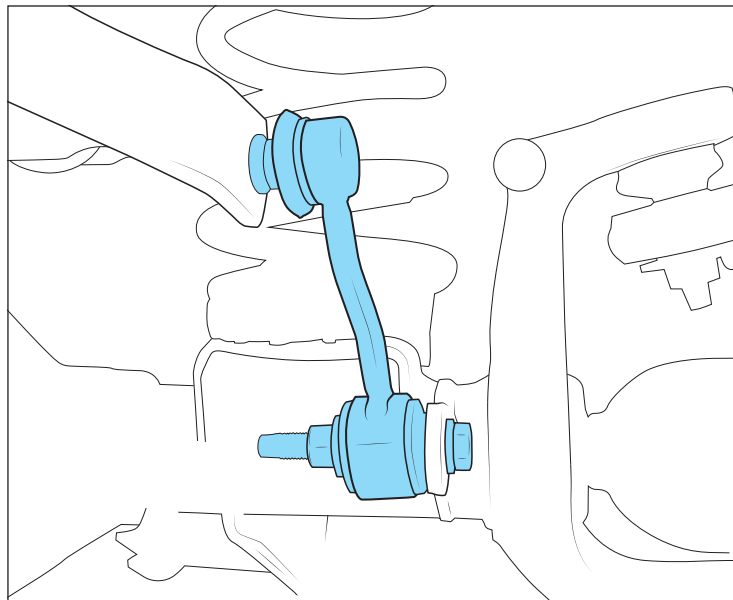


Figure 8



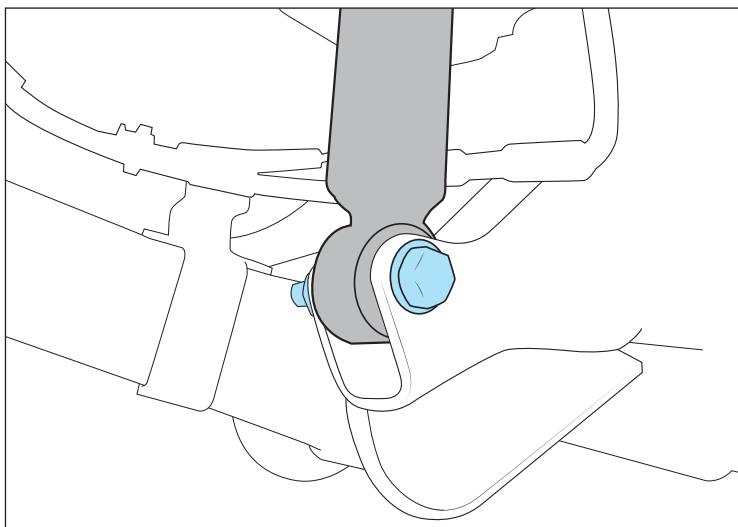
*Figure 9*

5. Remove sway bar end links. SAVE lower mounting hardware (fig. 10).



*Figure 10*

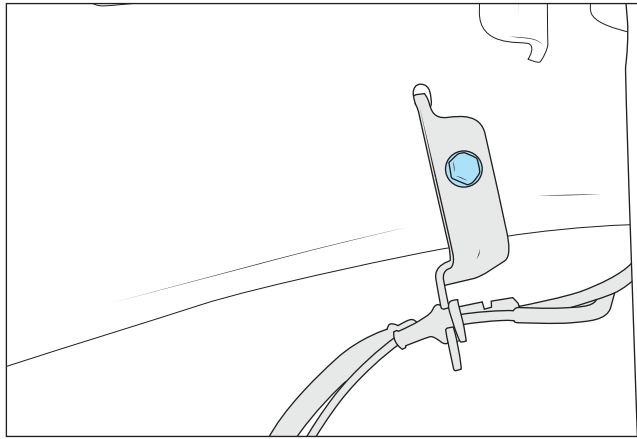
6. Remove lower shock mount hardware and SAVE (fig. 11).



*Figure 11*

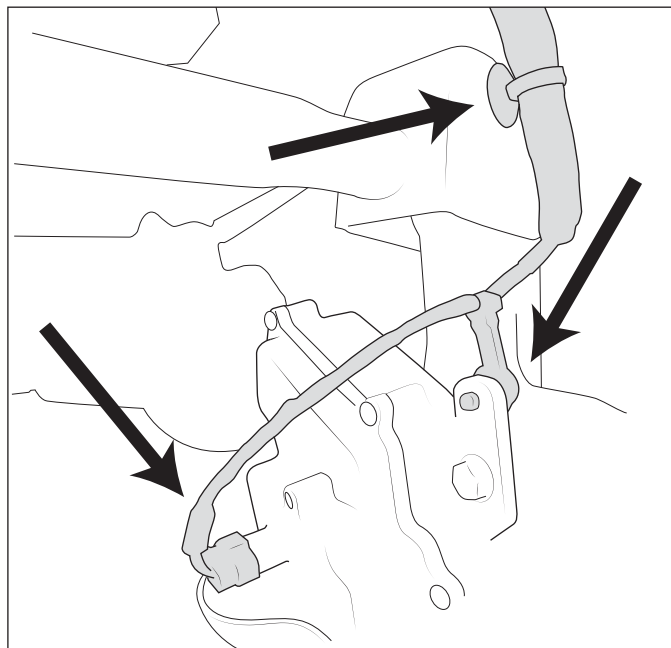


7. Unbolt the brake line brackets from the frame (fig. 12).



*Figure 12*

8. Unhook the connector and harness running to the central axle disconnect (fig. 13).



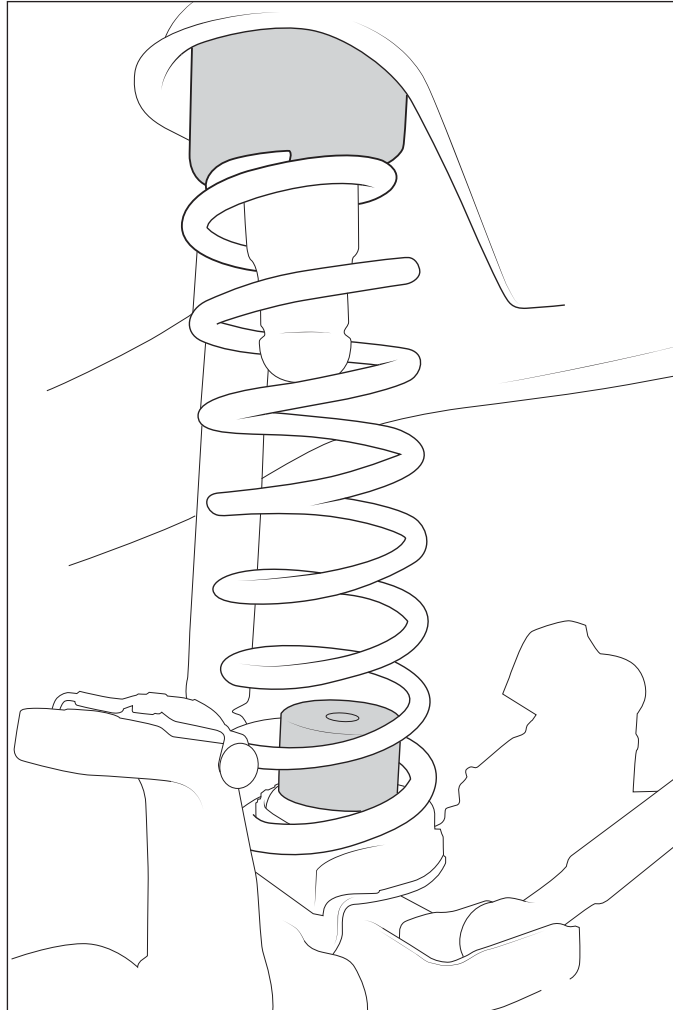
*Figure 13*

9. Lower the axle enough to remove the front springs and upper isolators (upper isolators will not be reused).





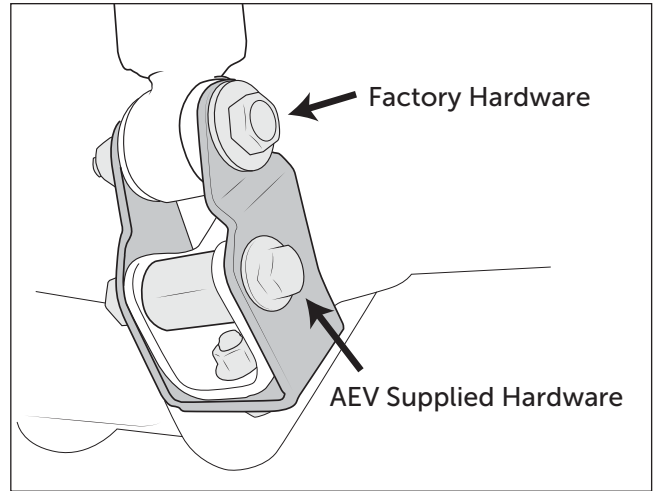
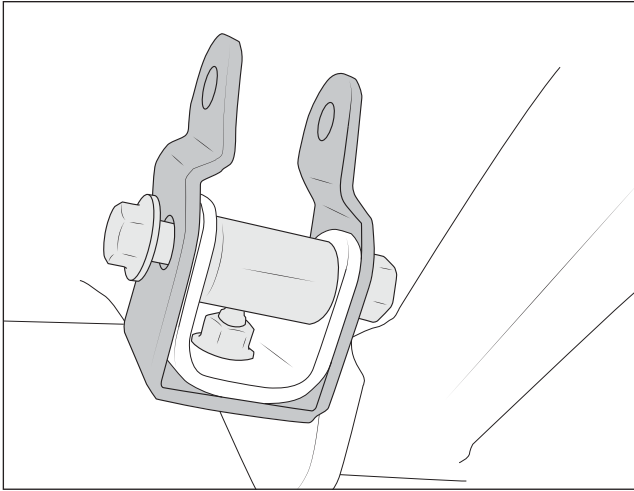
10. Install front spring spacers with molded posts pointing upward. Place bumpstop spacer inside spring and install both together (be sure counter-bored hole is on top). With AEV logo facing outward, make sure bot posts on the spring spacer engage the holes in the frame. Make sure spring is properly clocked into the lower spring mount and raise axle slightly to hold the assembly in place (fig. 14).
11. Install M10 hex head bolt and washer through the top of the bump stop spacer. Install and tighten nut on the bottom through the opening between the spring pad and axle tube.



*Figure 14*

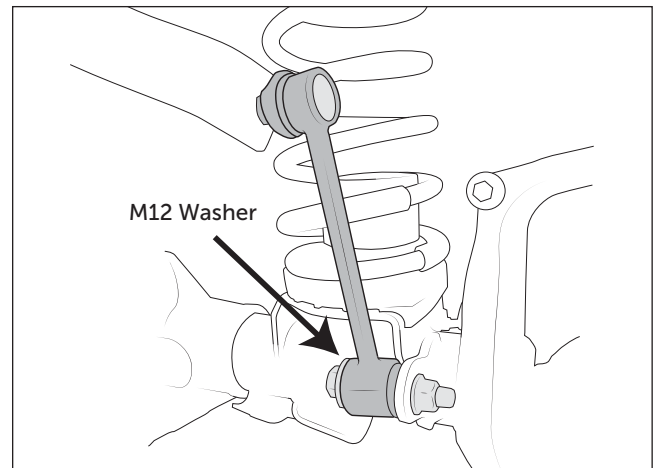
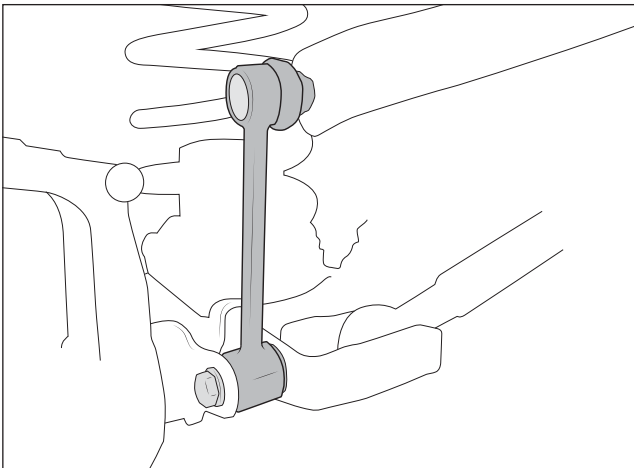


12. Install AEV shock extension brackets as shown, then re-install factory lower shock mount hardware (fig. 15). You may need to pull the shock body downward to reach the shock bracket. This is normal due to internal shock bumpers. NOTE: Due to variation in factory brackets, you may be required to enlarge the bottom hole slightly using a drill bit or round file.



*Figure 15*

13. Install AEV end links (fig. 16). Add the supplied M12 flat washer to the open side (toward vehicle center) of the driver-side, axle end mount.



*Figure 16*

14. Re-install brake line brackets, axle disconnect wiring, and wheels.
15. Put Jeep on level ground and torque all hardware as listed on the last page
16. A professional alignment is recommended to re-center the steering wheel.



## TORQUE SPECS

Front Upper Control Arms: 80 ft-lbs

Front Lower Control Arms: 190 ft-lbs

Front Track Bar: 110 ft-lbs

Front Sway Bar End Links: 60 ft-lbs

Brake Line Brackets: 15 ft-lbs

Rear Upper Control Arms: Frame 120 ft-lbs Axle 95 ft-lbs

Rear Lower Control Arms: 90 ft-lbs

Rear Track Bar: 90 ft-lbs

Rear Sway Bar End Links: 60 ft-lbs

Lower Shock Bolts (and relocation bolts): 75 ft-lbs

M10 Shock Bracket Bolts: 35 ft-lbs (47.5 N-m)

Bumpstop Spacer Hardware (front and rear): Tighten until slight deformation of plastic spacer.