

## **Synergy 2-door 2.0in/4-door 1.0in Front Lift Springs JK Wrangler**

**Installation Time:** 2-3 Hours

**Tools Required:**

- ✓ Sockets: 10mm, 18mm x2, 19mm, 21mm,
- ✓ Socket Wrench
- ✓ Lug Wrench
- ✓ Torque Wrench
- ✓ Jack x2 (Or Lift)
- ✓ Spring Compressor

**Before Picture:**

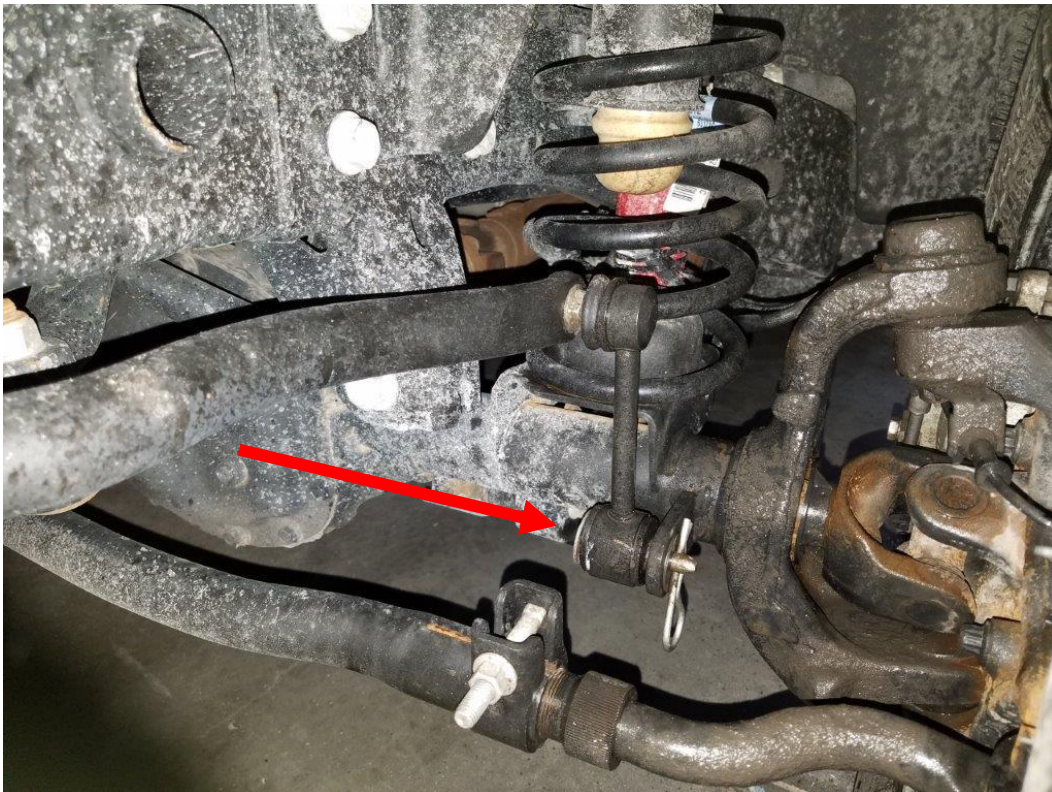


### Installation Instructions:

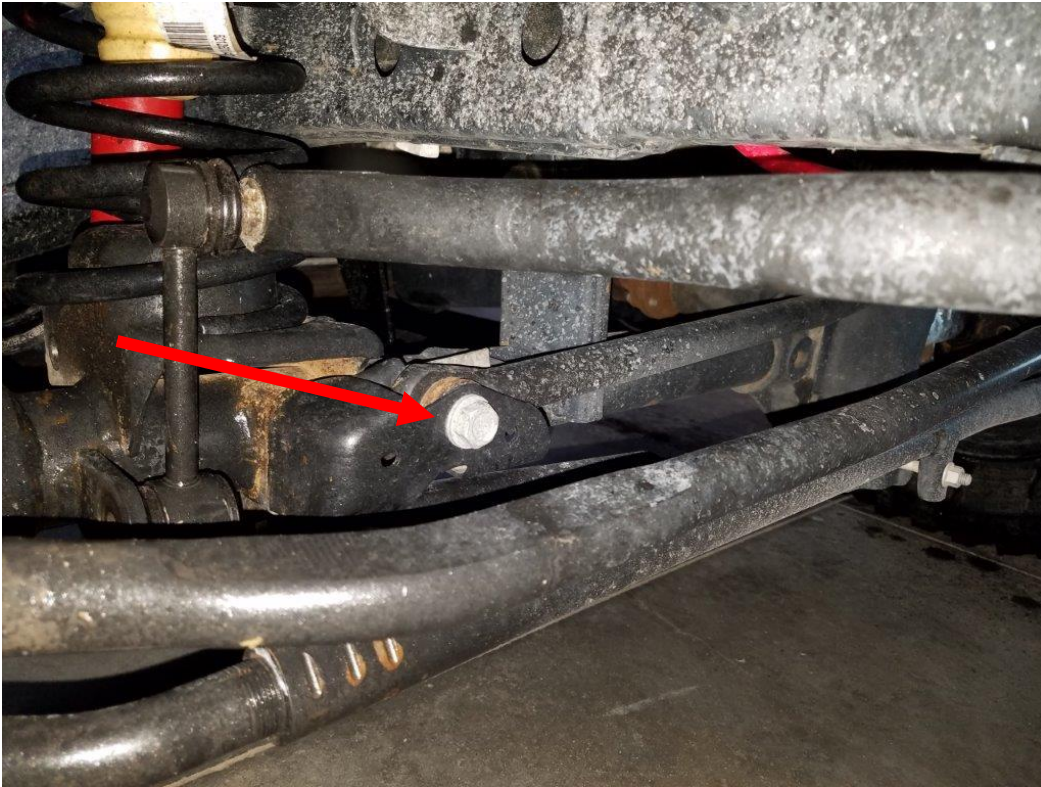
1. Using a 19mm lug wrench, loosen the lug nuts on both front wheels. To start out, only loosen them about a half a turn.



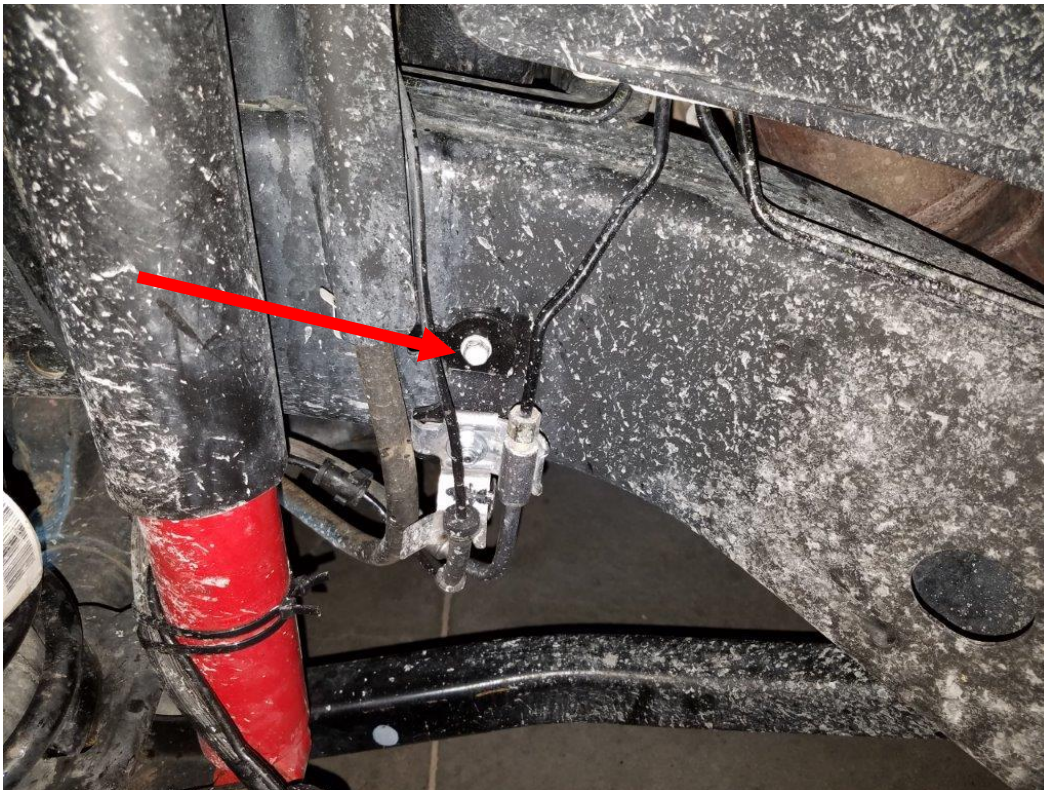
2. Remove the 18mm nut and bolt from the axle side of the sway bar link. Repeat this step on both driver and passenger sides. Shown below I have a pin instead of the 18mm bolt that comes stock.



- Using a 21mm socket, fully remove the axle side track bar bolt.



- Using a 10mm socket, remove the bracket holding the brake line to the frame. Repeat this on both driver and passenger sides. Shown below I have a black extension bracket.



5. If you have a lift, now you will want to lift your Jeep. If not, use a jack to lift the driver side by the frame. Then remove the wheel.
6. Next use a second jack to lift the axle about ½" just to relieve pressure on the lower shock bolt. At this point you want this jack to be near its highest setting, this will help for lowering the axle later.



7. Remove the 18mm nut and bolt from the bottom of the shock. If the jack has relieved all the pressure the bolt will slide out easily.



8. Now, using the jack under the axle, slowly lower it until the coil spring is loose. This will require the jack under the frame to be as high as possible. Keep an eye on the brake line and ABS wire, be careful not to overstretch them.



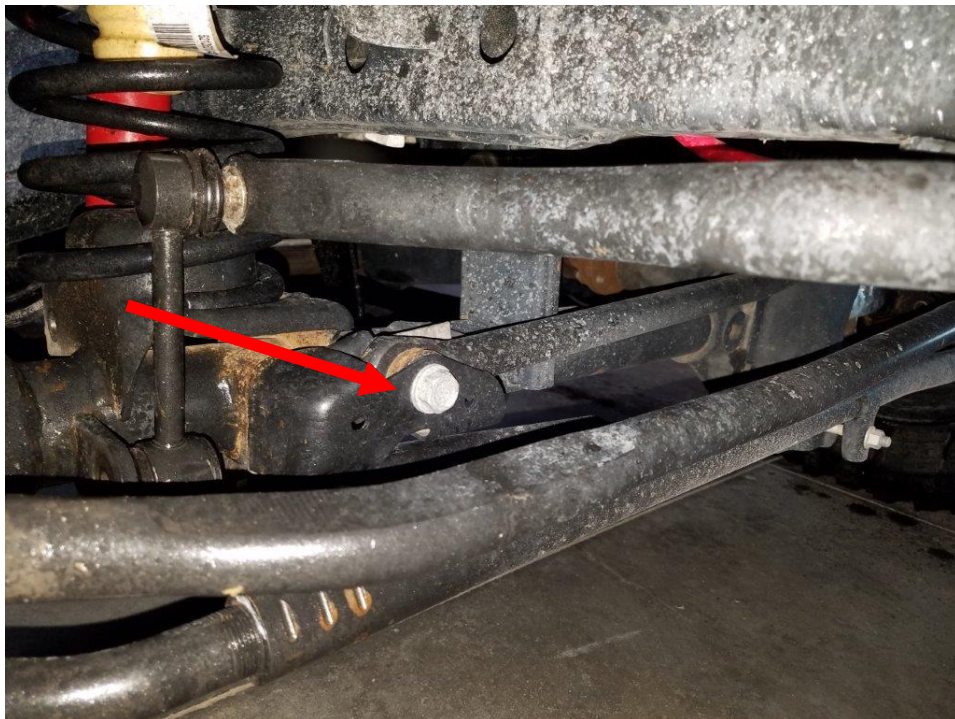
9. Once the axle is low enough for the stock spring to fall out, you are ready to install the new spring. Use spring compressors as shown below to compress the spring until it will fit in. It will help to lower the axle as much as possible. Then install the spring starting at the top, then the bottom. Make sure the end of the spring fits in the notch on the bottom spring perch. Then you can remove the spring compressors.



- 10.** Now jack up the axle until the lower shock mount lines up with the bolt holes and reinstall the shock bolt. Torque to 72ft/lbs.



- 11.** You can now reinstall the wheel. Start by hand tightening the lug nuts in a star pattern. Then lower the wheel to the ground and torque the lugs to 100ft/lbs.
- 12.** Repeat steps 5-11 on the passenger side.
- 13.** With both wheels on flat level ground reinstall both 18mm sway bar bolts. Torque to 63ft/lbs.
- 14.** Reinstall the brake line bracket with stock 10mm bolts.
- 15.** Last, reinstall the 21mm track bar bolt. To line up the bolt holes, have a friend push the body of the Jeep from one side until the holes line up. This should be done with the wheels on the ground. Torque the bolt to 125ft/lbs.



After Picture:



Installation Instructions Written by ExtremeTerrain Customer John Parker 12/21/2016