



232 Granite St, Corona, CA 92879

PH (844) 469-6827

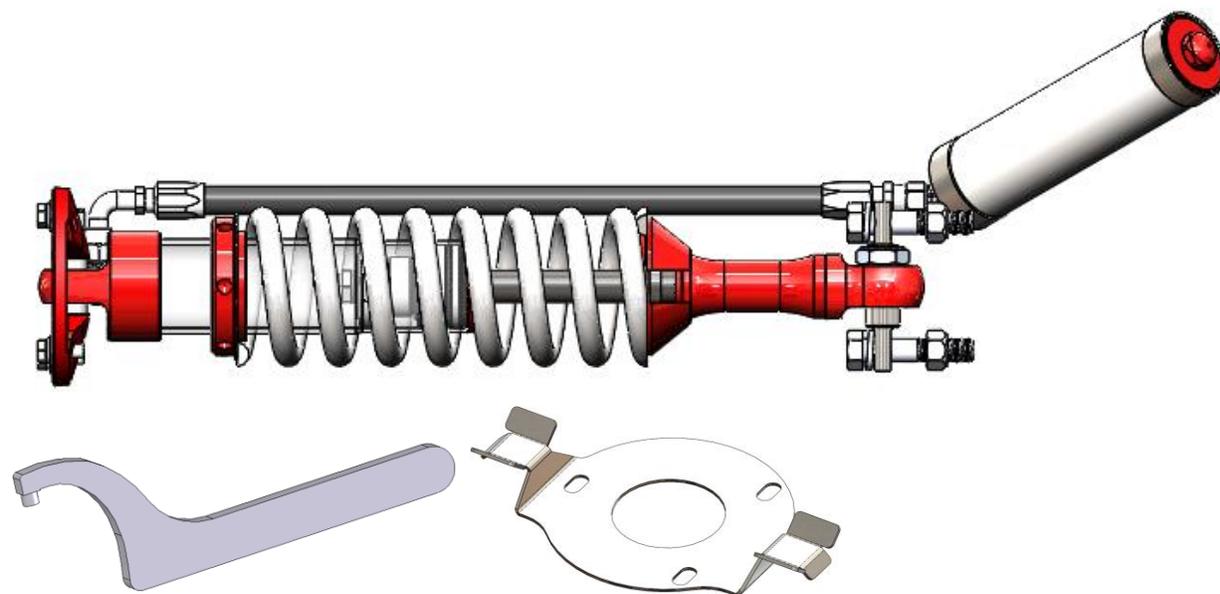
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## **2021-2023 Ford F-150 4WD Coilover Kit Installation**

*(Fitment excludes Power Stroke and PowerBoost models)*

### **Parts List:**

- 2 Sway-A-Way Shocks (Left / Right)
- 2 Reservoir Mount Brackets
- 4 Hose Clamps
- 1 Spanner Wrench



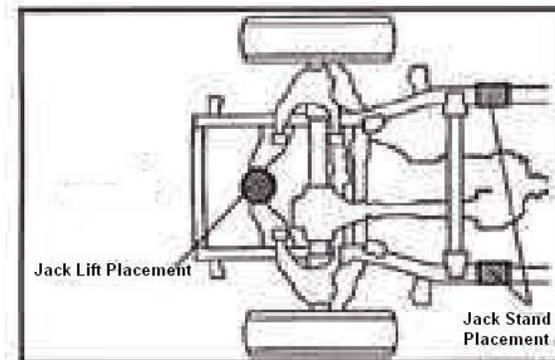
### **Tool List**

- 8mm, 10mm, 15mm, 18mm, 21mm, and 30mm sockets
- 16mm and 3/4in deep socket
- 19mm open end wrench
- Crescent wrench
- Ball joint remover
- Jack and jack stands
- Impact wrench (optional)
- Safety glasses

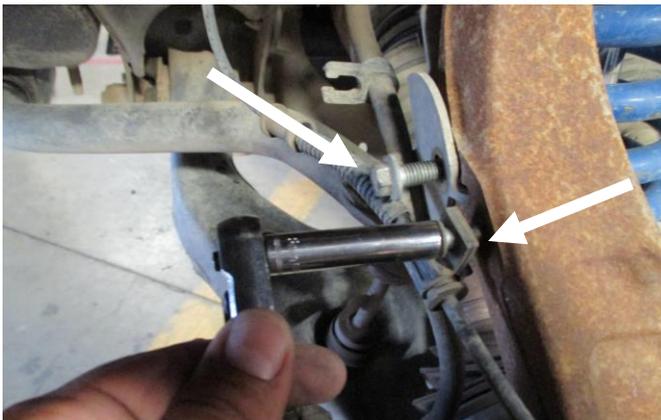
## **Removal and Installation Procedure for F-150 Front**

(Shocks are already charged with 200 PSI of Nitrogen)

1. Park the vehicle on a level concrete surface where it is safe to work on your vehicle.
2. Lock and center the steering wheel.
3. Place blocks in front and behind the rear tires to keep the vehicle from moving forwards or backwards.
4. One side at a time, place the jack under the frame and raise the truck until the jack stand can be placed under the lower arm mount.

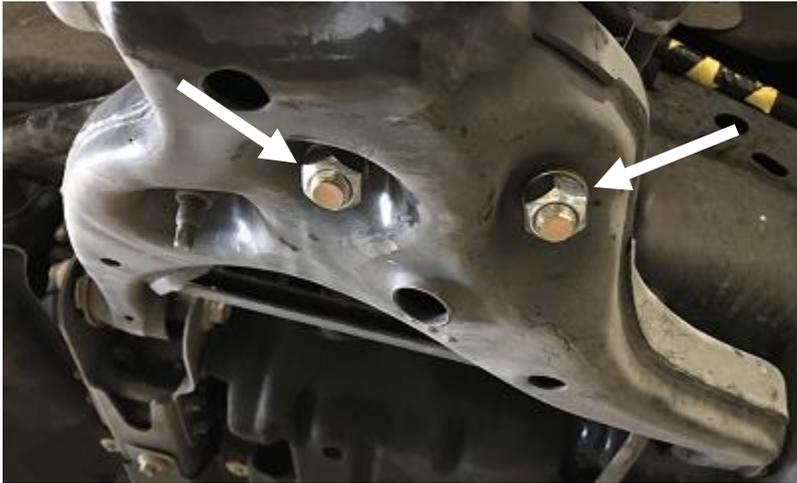


5. Once both sides are safely on jack stands, use the 3/4in deep socket and impact gun to remove the lug nuts and wheels.
6. Use the 21mm socket to loosen, but do not remove, the upper spindle ball joint nut.
7. Use the 18mm open end wrench and 8mm socket to remove the sway bar linkage.
8. Use the 8mm socket to remove the ABS sensor from the spindle.
9. Use the 10mm socket to remove the brake line from the spindle and upper arm.

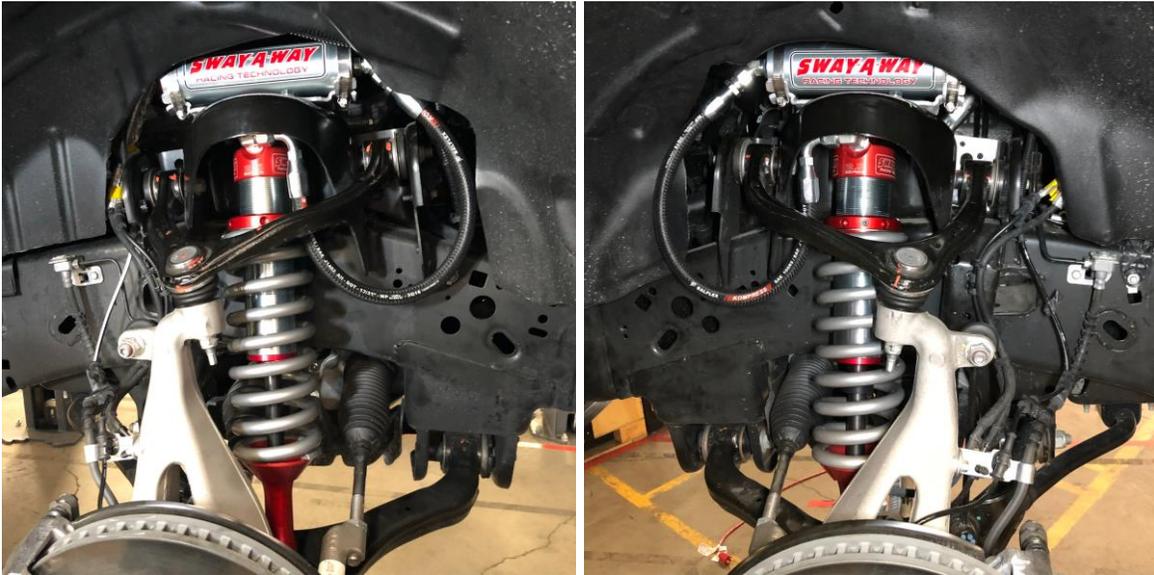


10. Follow the ABS sensor wire to the back of the wheel well, disconnect the plug, remove the wire from the clip on the upper arm, and let the wire hang free.
11. Use the 21mm socket to remove tie rod end from the spindle.

12. Place and raise the jack under the lower arm to take the weight off the shock.
13. Use the 18mm deep socket to remove the 3 nuts holding the top of the shock to the mount. **DO NOT** remove center nut; doing so will release the spring from the stock assembly and could result in **SERIOUS INJURY** or **DEATH!**
14. Remove the lower shock mount bolts using an 18mm socket and impact gun on the nuts.



15. Completely remove the nut from the upper spindle ball joint, then use the ball joint remover to remove the upper spindle ball joint and slightly lower the jack to allow the arm to droop.
16. Remove the old shocks from the vehicle and install the new shocks by reversing the above steps. Install the reservoir mounting brackets on top of the shock mounting bucket as shown below prior to installing the top bolts. The bracket needs to be positioned so the reservoir sits away from the engine. **WARNING:** the shocks are directional. When installing the new shocks, be sure the 90° fitting in the top cap is pointing toward the outside of the vehicle and the reservoir hose is routed under the upper arm.



17. Be sure to reconnect the ABS sensor plug, and reinstall the sensor, brake line, and sensor wire back into the clip on the upper arm.
18. Reinstall everything in reverse order. Double check that every bolt that was removed has been retightened. Reinstall wheels and tighten lug nuts to factory spec.
19. If you are happy with the achieved lift, then your installation is complete.
20. If you would like to change the height of the vehicle, you can use the supplied spanner wrench to raise or lower the height. Loosen the set screw on the coil nut, then turn clockwise to raise the vehicle, or counter-clockwise to lower the vehicle. Repeat until you have achieved the desired lift. Lifting the vehicle from the frame will take pressure off the spring and make it easier to turn. Remember to tighten the setscrew when all adjusting has been completed.

**After you have finished installing your suspension kit, you must have the front end aligned.**