Installation Instructions

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PRO TRUCK COILOVER E86-35-048-01-20

Kit Contents

Description	Part Number	Quantity
Coilover Assembly 2.0	35164.9003	2
Height Adjustment Tool	ETCO 2.0	1
Hardware Kit	35148.8000k	2

Required Tools

10mm socket or wrench
8mm socket or wrench
18mm socket and wrench
15mm socket
2 hammers and a center punch
32mm socket
2 hammers and a center punch
32mm socket
17mm socket or wrench
19mm socket and wrench
3/8 torque wrench
½ torque wrench

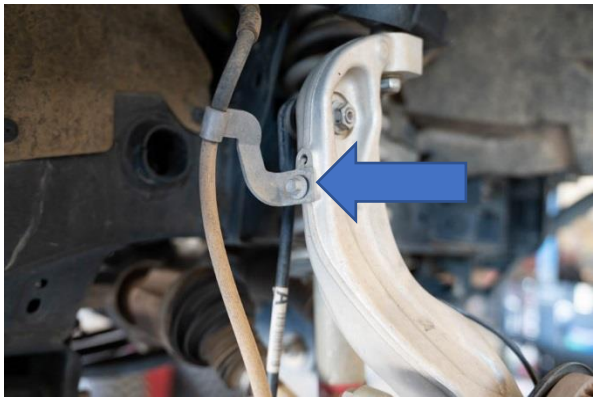
Notes

Read all instructions before beginning installation

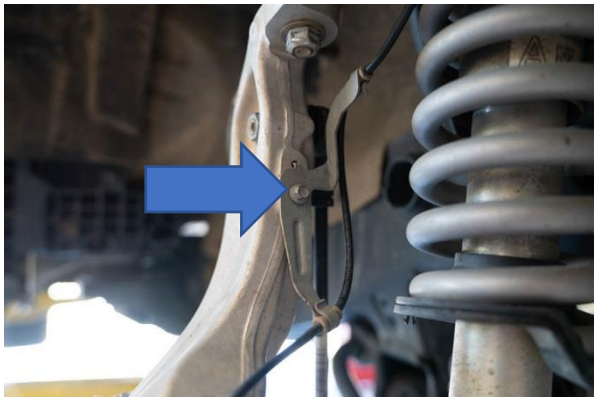
Only qualified mechanics experienced in the installation and removal of suspension components should perform this installation.
Use of a hoist and screw jack is highly recommended and will substantially reduce installation time.

Never work on or under a vehicle unless it is properly supported.

Installation



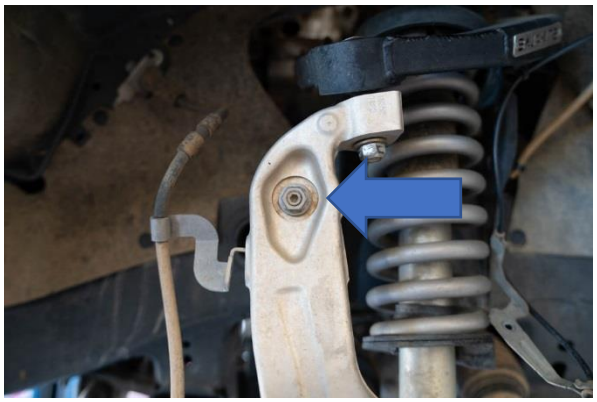
Step 1



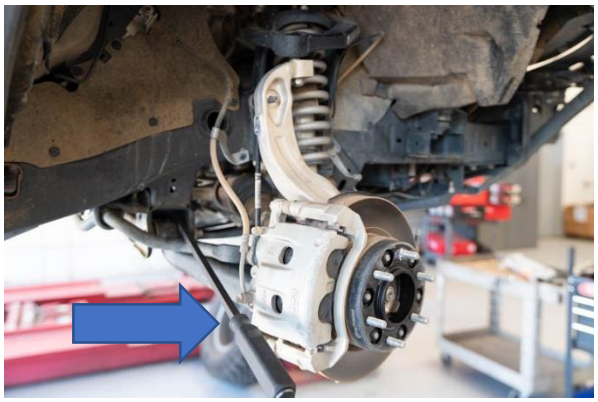
Step 2

Step 1. Loosen and remove 10mm bolt that secures the brake line bracket to the knuckle.

Step 2. Loosen and remove 8mm bolt for the wheel speed sensor to the knuckle.



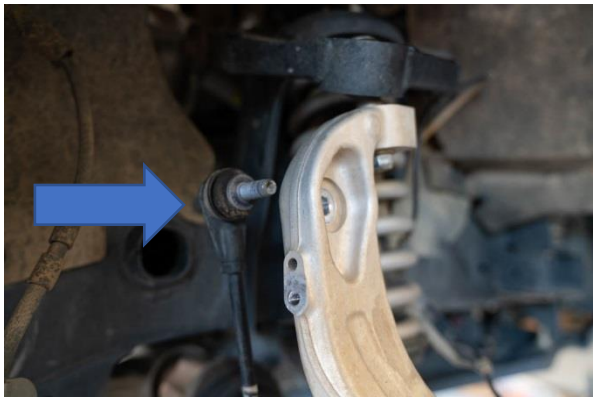
Step 3



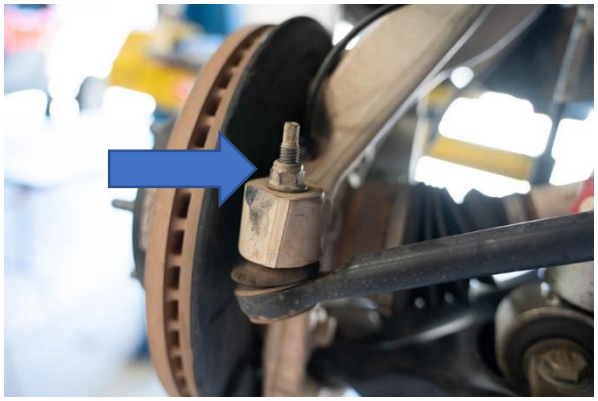
Step 3b

Step 3. Remove 18mm nut for the end link to the knuckle.

Step 3b. Pry down on the sway bar.



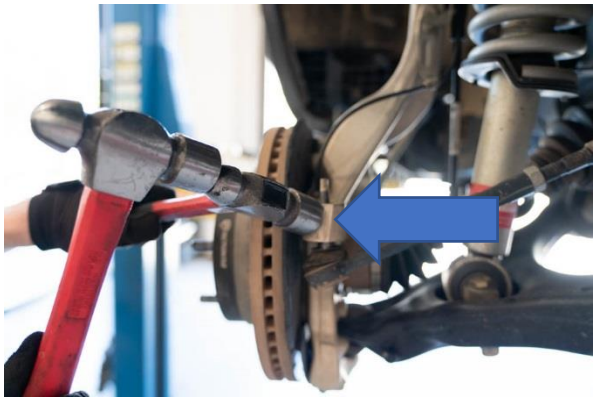
Step 3c



Step 4

Step 3c. Pull back the end link.

Step 4. Remove the 15mm nut for the outer tie rod.



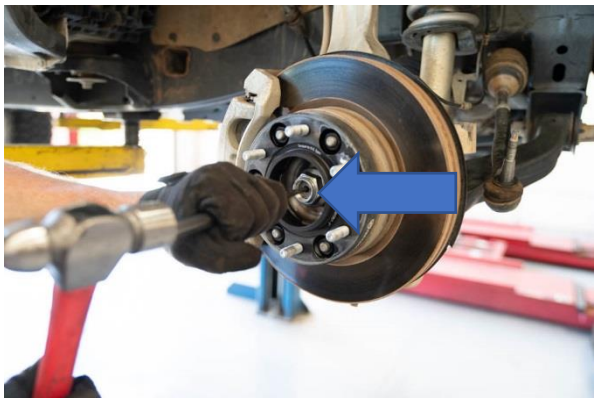
Step 4b

Step 4c

Step 4b. Use 2 hammers to shock the knuckle and the tie rod will fall when released.

Step 4c. Example when done correctly

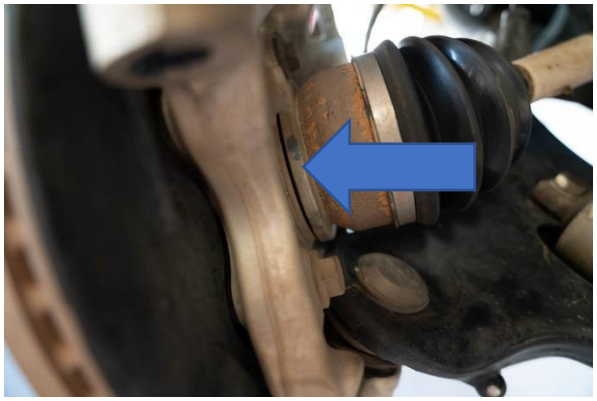
Step 5



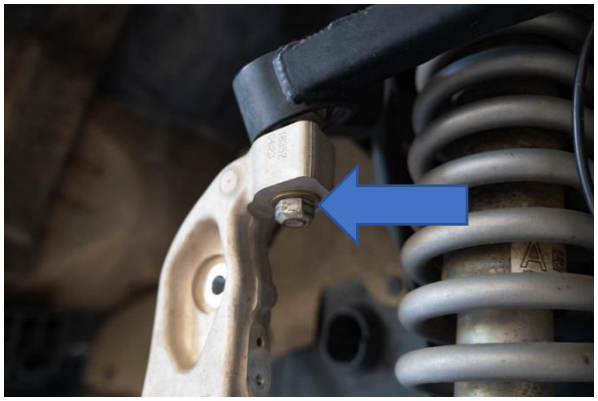
Step 5b

Step 5. Remove the 32mm axle nut.

Step 5b. Use a center punch and a hammer to push the axle back to take some stress off the cv boot.



Step 5c



Step 6

Step 5c. Just enough to create and 5-10mm gap.

Step 6. Loosen the upper ball joint 18mm nut until a couple threads are showing, do not remove the nut at this time

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Step 6b

Step 6c

Step 6b. Shock the knuckle with 2 hammers to get the ball joint to release. (Keep in mind the upper control arm is pre-loaded so you will have to keep the nut on for this part)

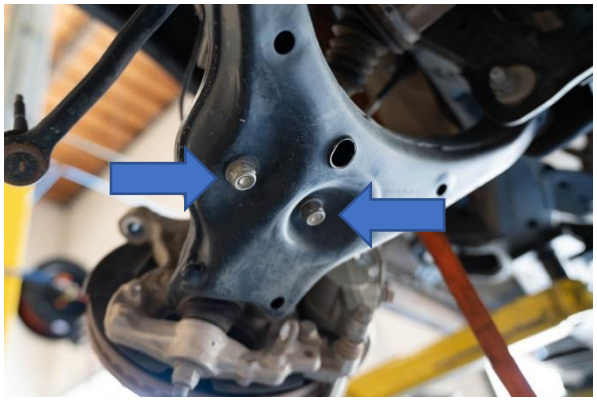
Step 6c. Pry down on the upper control arm.

Step 6d

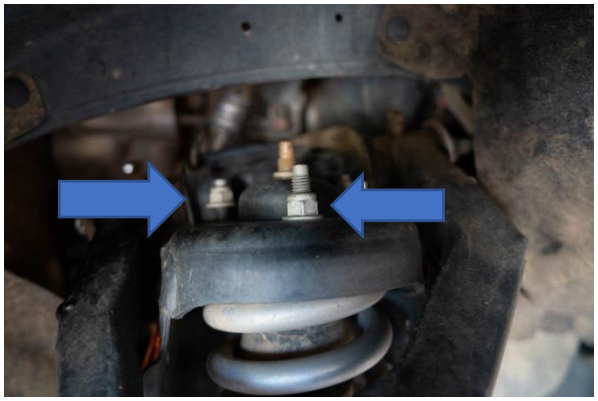
Step 6e

Step 6d. While prying down on the control arm remove the ball joint nut.

Step 6e. Strap the knuckle to the chassis to ensure the knuckle doesn't fall.



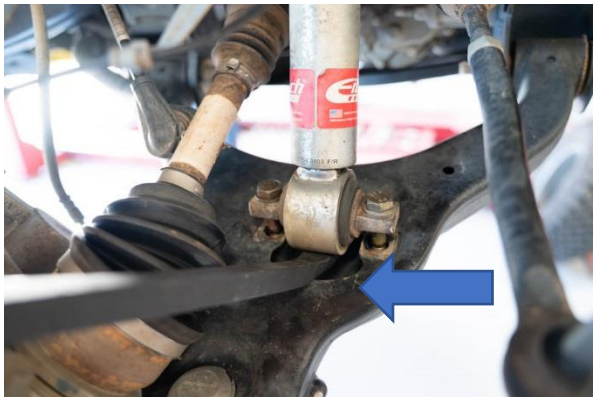
Step 7



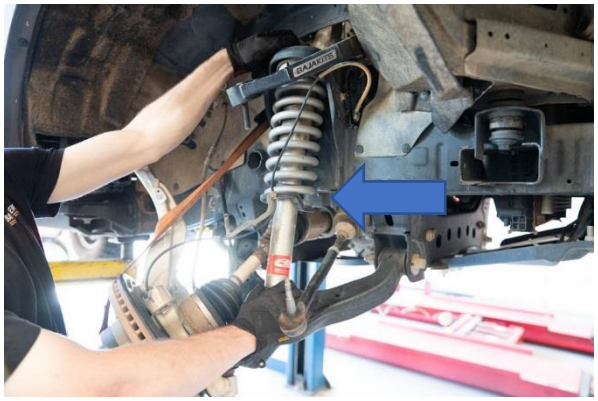
Step 8

Step 7. Loosen and remove the 2x 18mm nuts that go into the lower control arm.

Step 8. Remove the 3x 15mm for the top hat nuts



Step 9

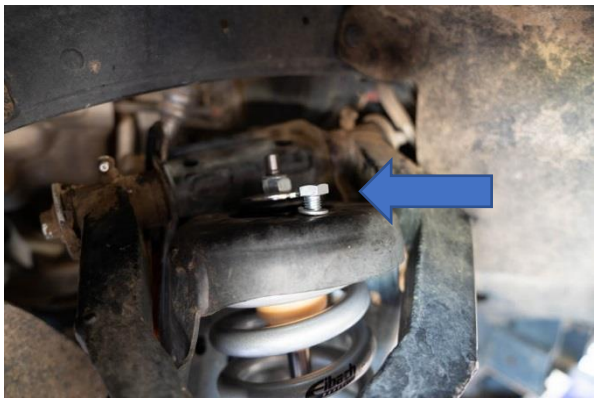


Step 10

Step 9. Pry down on the lower control arm enough to have the studs clear the arm, making sure not to stretch the brake line.

Step 10. Remove the shock

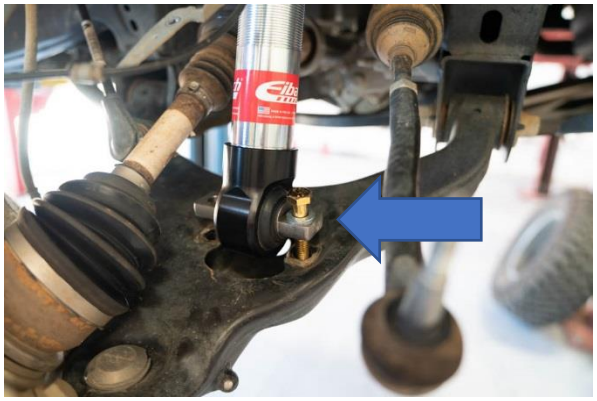
Step 11



Step 12

Step 11. Install the new coil over.

Step 12. Install the 3x 17mm bolt with lock washers provided and torque them to (35 ft-lb)



Step 13

Step 14

Step 13. Install the 2x 19mm bolts with one washer on top and bottom.

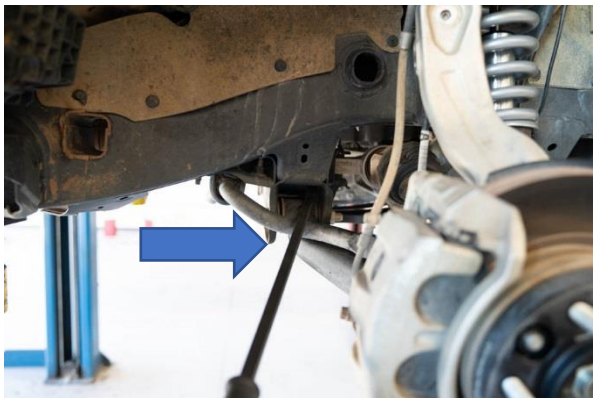
Step 14. Torque to (66 ft-lb)

Step 15

Step 16

Step 15. Pry down on the upper control arm and line up the ball joint with the control arm and hand tighten the nut.

Step 16. Torque to (46 ft-lb)



Step 17

Step 17b

Step 17. Pry down on the sway bar…

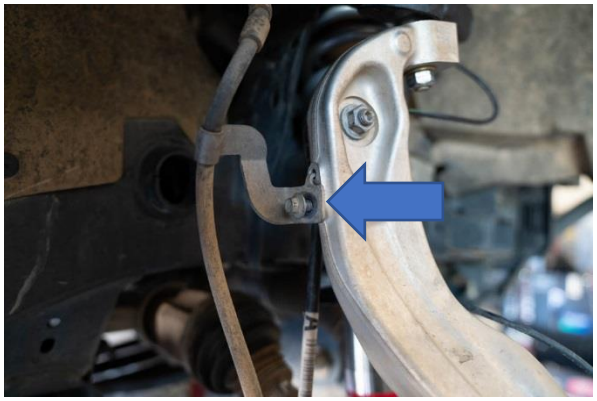
Step 17b. Line up the end link and push it into the knuckle.

Step 17c

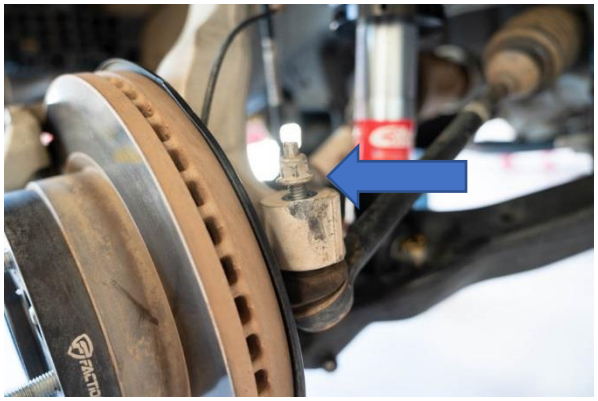
Step 18

Step 17c. Torque to (85 ft-lb)

Step 18. Re install the 8mm bolt for the wheel speed sensor to the knuckle.



Step 19



Step 20

Step 19. Re install the 10mm bolt for the brake line bracket to the knuckle.

Step 20. Re install the 15mm nut onto the tie rod and torque to (35 ft-lb)

Step 21

Step 21b

Step 21. Re install the 32mm nut for the axle.

Step 21b. Torque axle nut to (221 ft-lb)

Step 22. Reinstall wheels and torque to factory spec.

Step 23. Double check and make sure everything is tightened and properly positioned, then, road test the vehicle and retighten if necessary

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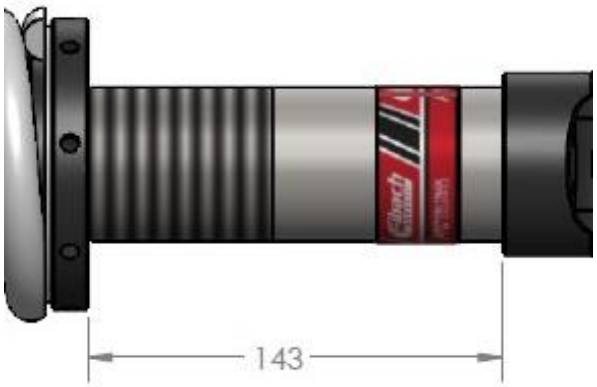

Note: Do **NOT** go above a spring collar height of 143mm from bottom of collar to base, as shown or else damage to the shock and suspension will occur.

Each full turn of the collar will result in approximately 3/16” in change of your ride height.