

# Installation Instructions

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## PRO TRUCK COILOVER E86-23-007-01-20

### Kit Contents

Description	Part Number	Quantity
Coilover Assembly 2.0	38169.9003	2
Height Adjustment Tool	ETCO 2.0	1

### Tools List

15mm wrench and socket	18mm socket and wrench	Pry bar
13mm socket	17mm wrench or socket	Pull strap
10mm socket and wrench	5mm Allen key	
T25 torques bit	3/8 torque wrench	
21mm socket	1/2 torque wrench	

### Notes

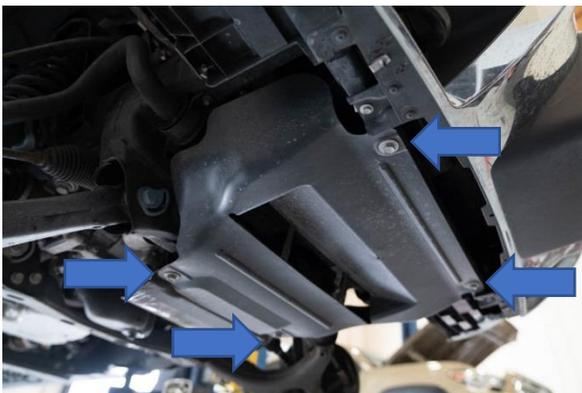
#### Read all instructions before beginning installation

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.

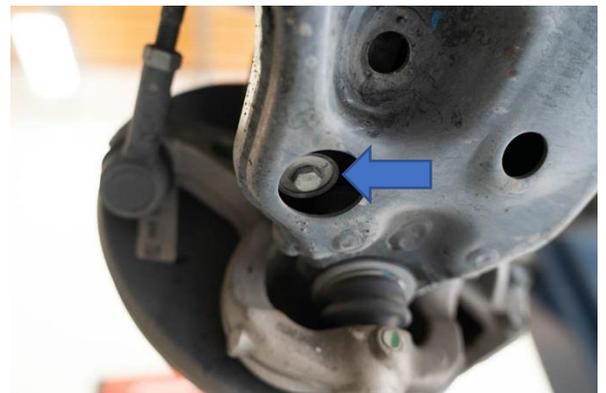
Never work on or under a vehicle unless it is properly supported.

### Installation



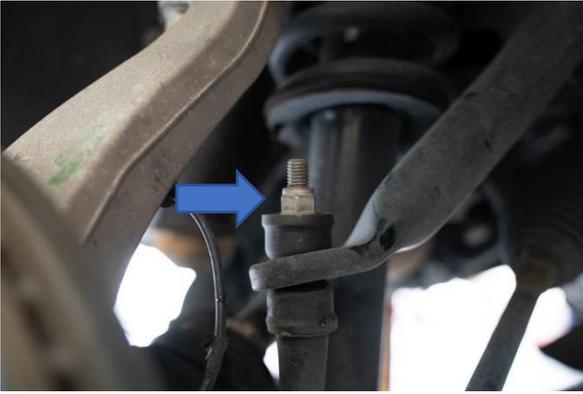
Step 1

Step 1. Loosen and remove 4 15mm Bolts for under tray.



Step 2

Step2. Use a 13mm socket to hold the end link at the bottom of the control arm



Step 2B

Step 2B. Loosen and remove the 15mm nut on top of the end link while holding the bottom with the 13mm socket from step 2.



Step 3

Step 3. Remove the 10mm bolts from the sway bar D-Brackets on both sides. Sway bar will fall so take caution when removing these bolts.



Step 4

Step 4. Remove 10mm for wheel speed sensor.



Step 5

Step 5. Remove T25 torx screw for the abs line to knuckle



Step 6

Step 6. Loosen and remove 21mm nut for tie rod end. (This may or may not need to be shocked to get the arm to drop because knuckle is aluminum)



Step 7

Step 7. Loosen 18mm nut for the upper ball joint, but do not remove at this time.



Step 7b

Step 7b. Pry down on the upper control arm and remove the 18mm nut.



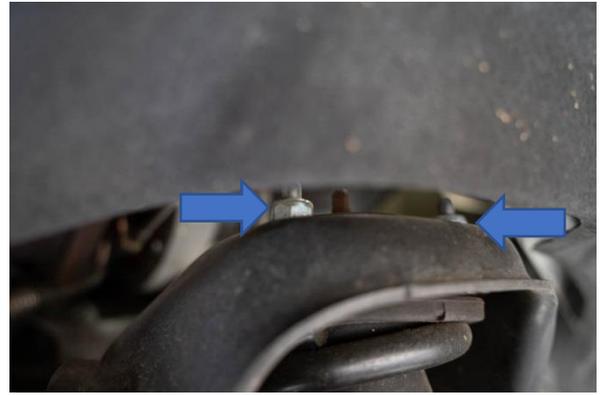
Step 7c

Step 7c. Tie up the knuckle so it doesn't fall or stretch the brake line.



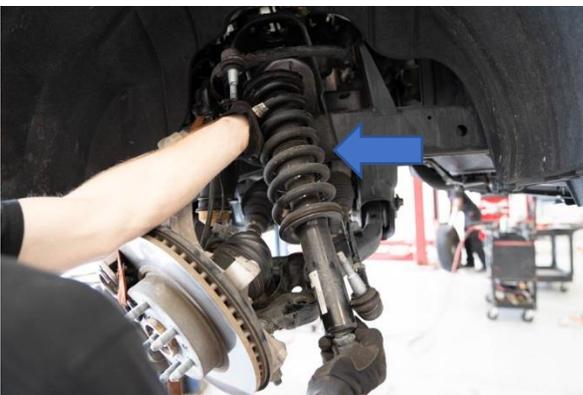
Step 8

Step 8. Loosen and remove the lower 21mm shock bolt. (Do not try and remove the nut on the back side as it is welded to the control arm)



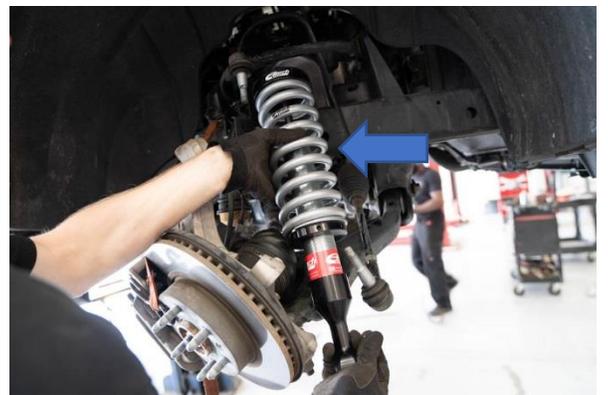
Step 9

Step 9. Loosen and remove the 3x 18mm Nuts from the top hat.



Step 10

Step 10. Remove strut from vehicle being cautious that it may fall when you remove the last nut.



Step 11

Step 11. Install the new Eibach coil over



Step 12

Step 12. Install the 3x 17mm bolts and washers included with the kit to (35 ft-lb)



Step 13

Step 13. Re install the 21mm bolt and torque to (74 ft-lb + 25-35 degrees)



Step 14

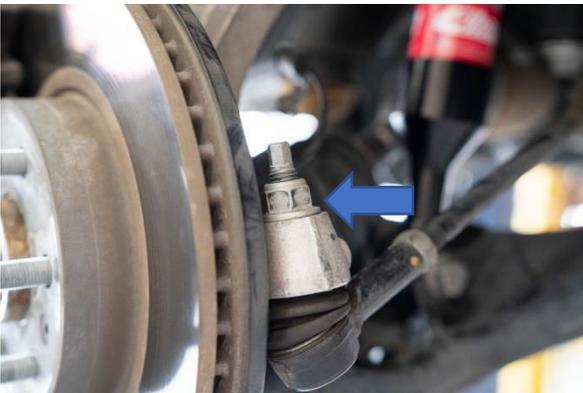
Step 14. Pry down on the upper control arm and re install (hand tight) 18mm nut for the ball joint



Step 14b

Step 14b. Use a 5mm Allen key to hold the ball joint while tightening the 18mm nut. Torque to (37 ft-lb + 90-110 degrees)

+



Step 15

Step 15. Re install the 21mm nut for the tie rod end and torque to (55 ft-lbs + 90-105 degrees)



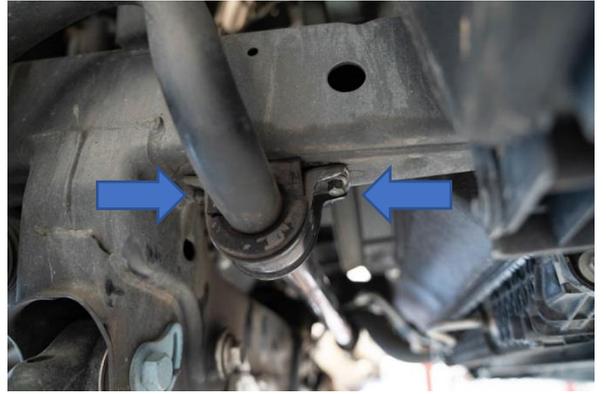
Step 16

Step 16. Re install the T25 torx screw and torque to (53 lb-in NOT LB-FT)



Step 17

Step 17. Re install the 10mm bolt on the back of the knuckle.



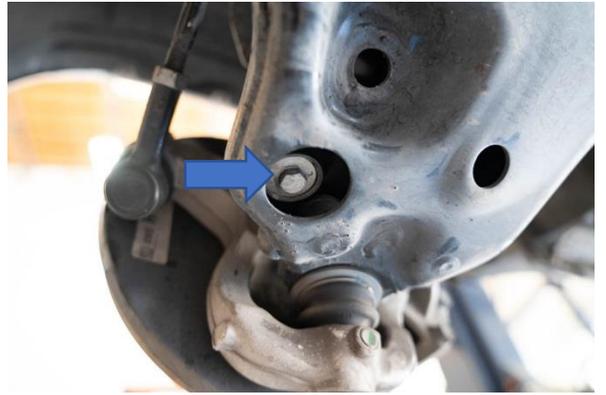
Step 18

Step 18. Re install the sway bar and the 4x 10mm bolts to (37 ft-lb) and note: short bolts are for the front and long is for the rear of the D-Bracket



Step 19

Step 19. Re install the end link and tighten 15mm nut to (22 ft-lb)



Step 19b

Step 19b. Be sure to hold the end link with a 13mm socket so it doesn't spin when you tighten the 15mm nut.



Step 19c

Step 19c. example



Step 20

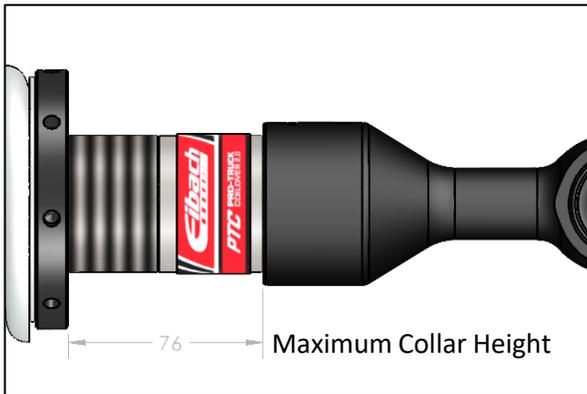
Step 20. Re install under tray and the 4x 15mm bolts torque to (18 ft-lbs)



Step 21

Step 21. Torque wheel to 140 ft-lb

Step 22. Double check and make sure everything is tightened and properly positioned, then, road test the vehicle and retighten if necessary.



Note: Do NOT go above a spring collar height of 76mm 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 1/8" in change of your ride height