



UPPER CONTROL ARMS

INSTALL RAPTOR | BRONCO | BRONCO RAPTOR | RAM TRX



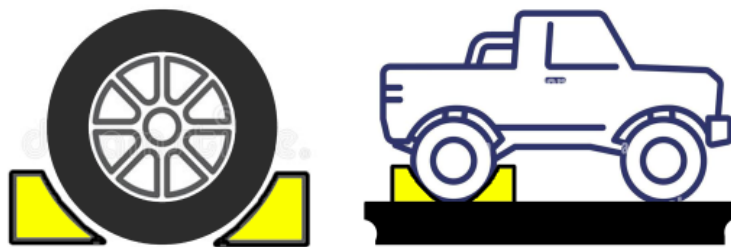
*** THE PICTURES IN THIS DOCUMENT ARE SHOWN ON A GEN 3 RAPTOR FOR VISUAL INSTALL PURPOSES.
ALL STEPS APPLY UNLESS OTHERWISE NOTED ***

Step 1:

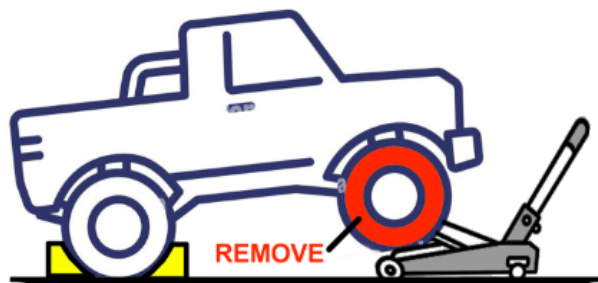
Park vehicle on level ground and set the parking brake.



Place wheel chocks on the rear tires.



Remove both front tires





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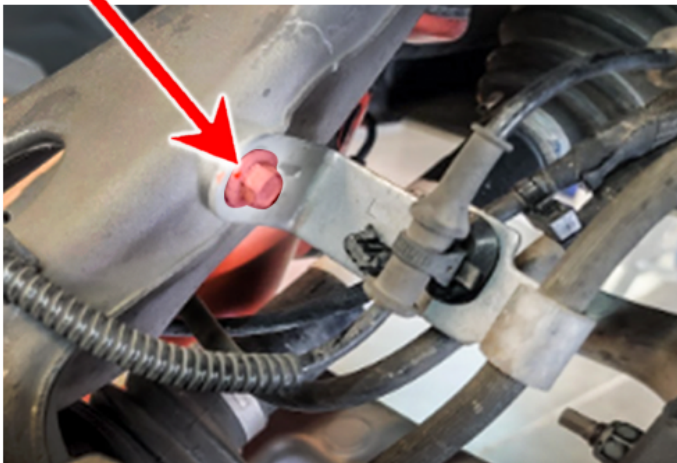
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Step 2:

Starting on the driver's side, remove bolts holding the brake line bracket and abs lines to spindle.



REMOVE





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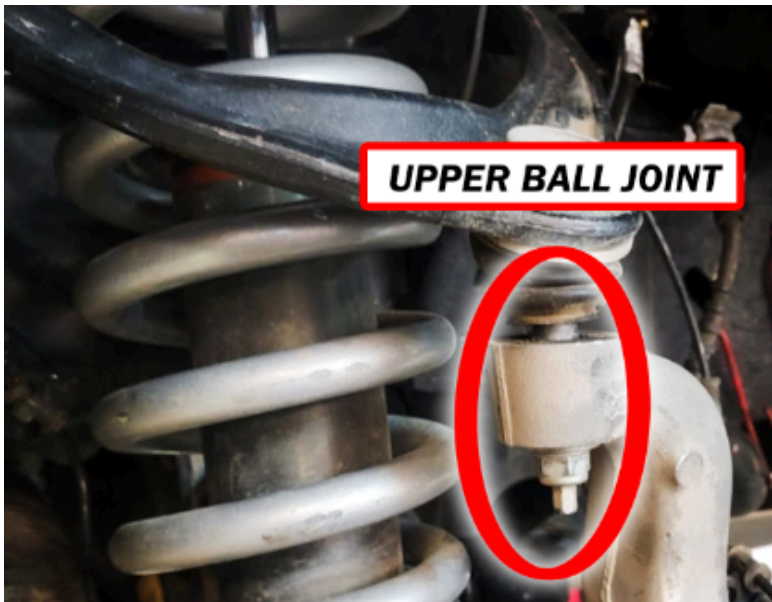
Step 2 (cont.)

Allow lines to have slack and to be moved. If equipped, remove vacuum line from hub, retainer clip from spindle and upper control arm

Step 3: **If you are not installing a Ford Raptor control arm, skip ahead to step 11, page 10 ******

- **Ford Raptors:**

Loosen the upper ball joint nut but don't remove it completely and then do the same for the tie rod nut.



Using a hammer, strike the spindle to loosen the tie rod and upper ball joint for removal.

Then remove from spindle, allowing spindle to rotate to the rear, making sure abs and brake lines don't get tight, adjust as necessary.



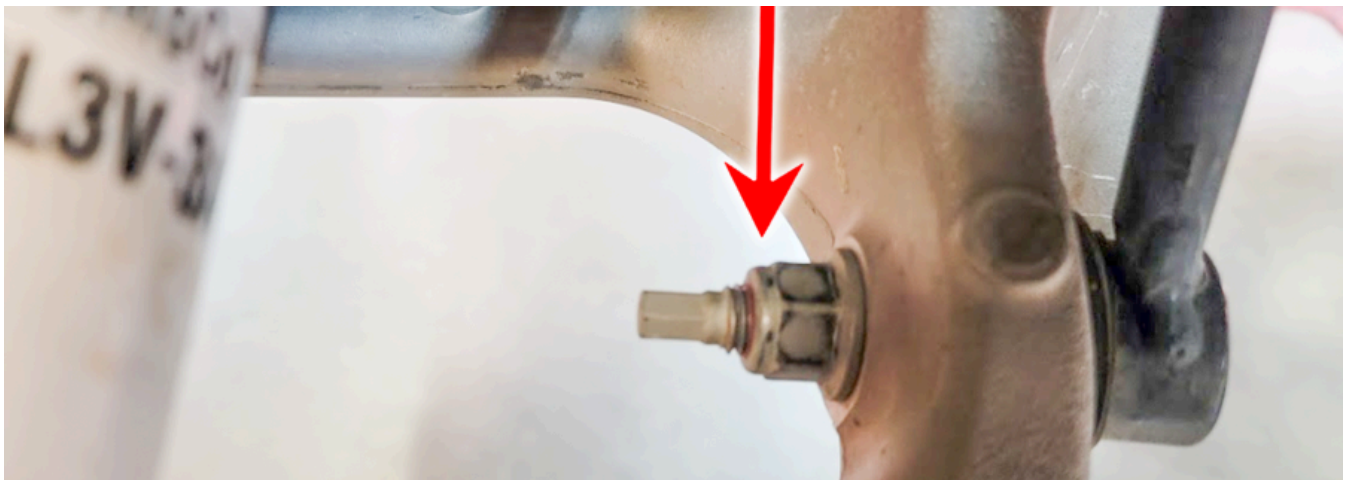
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Step 4:

- **Ford Raptors:**

Remove sway bar link nut on lower control arm and remove sway bar link from control arm



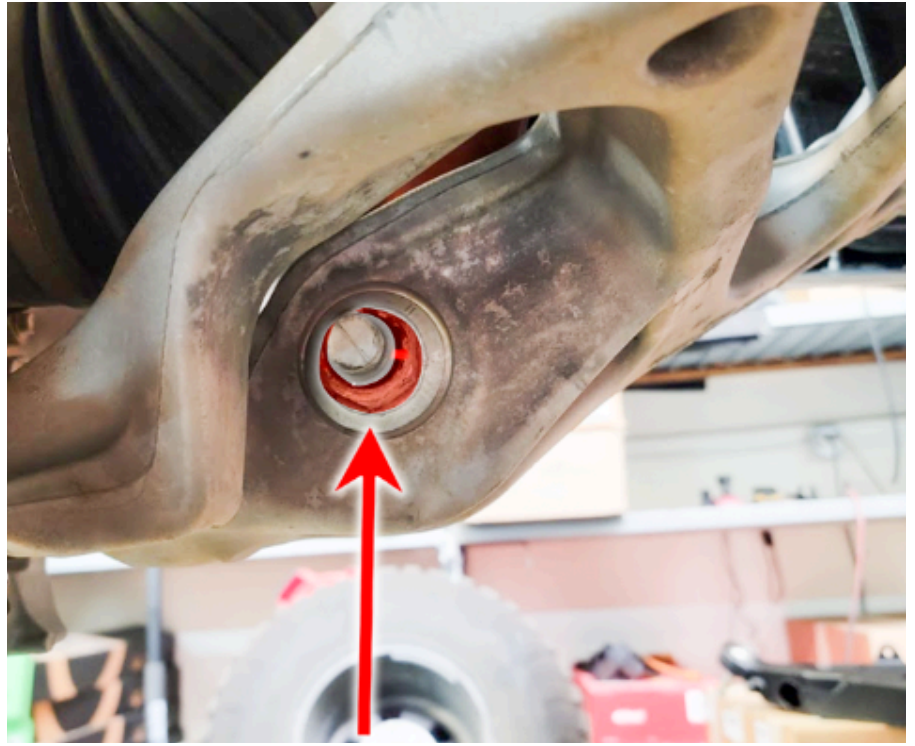


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Step 5:

- **Ford Raptors:**
Remove the lower shock nut and bolt.



Then remove 3 nuts on top of the shock





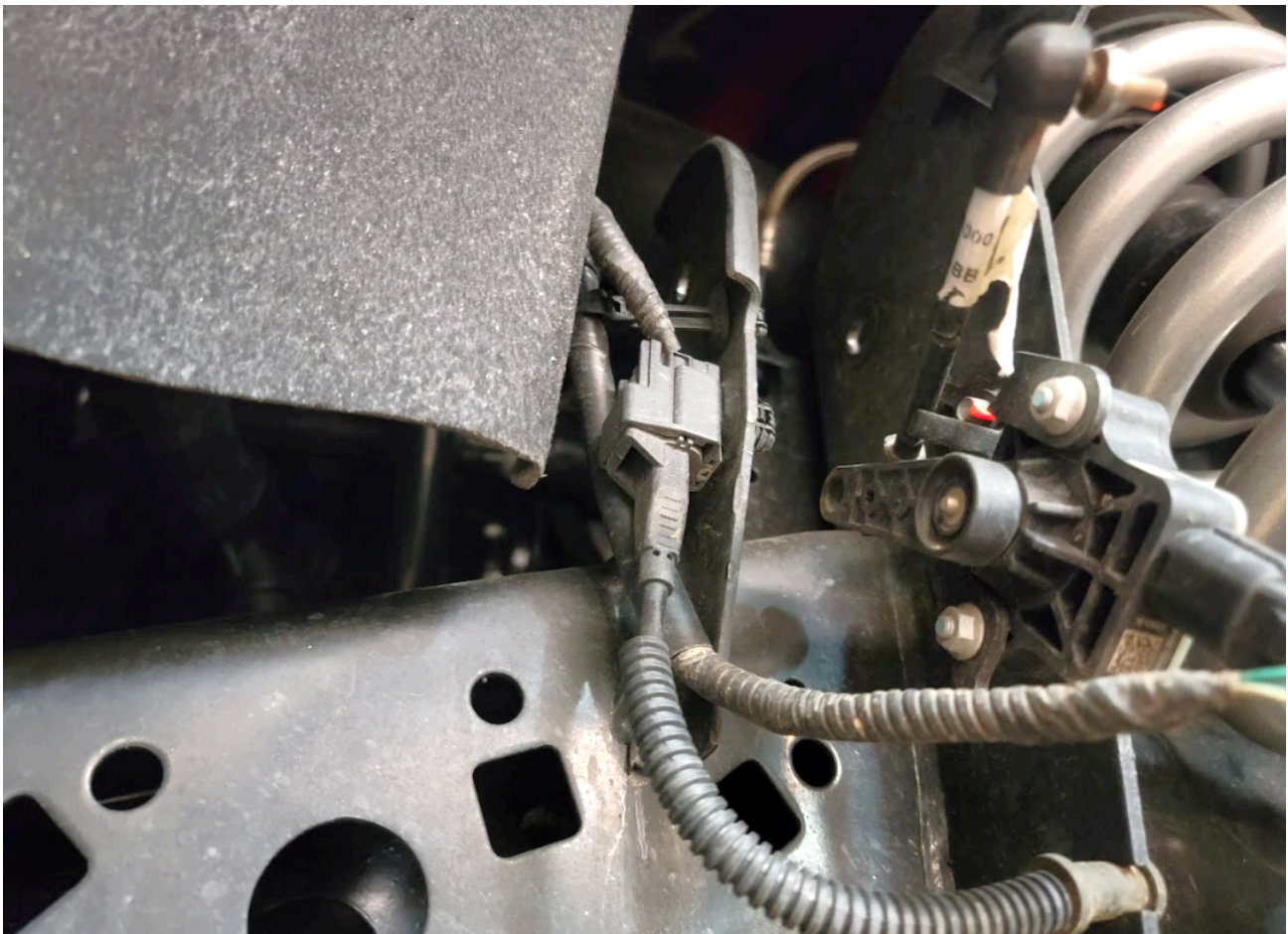
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Step 6:

- **Ford Raptors:**

If equipped, remove live valve solenoid or wiring, then remove shock from truck.





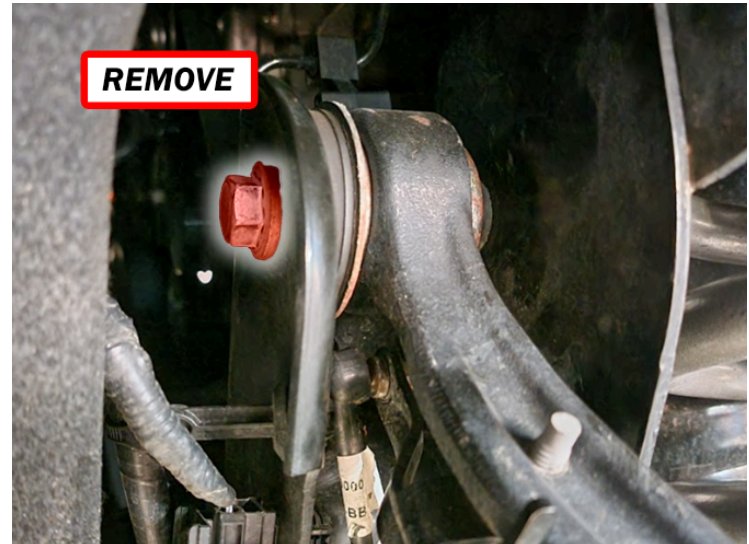
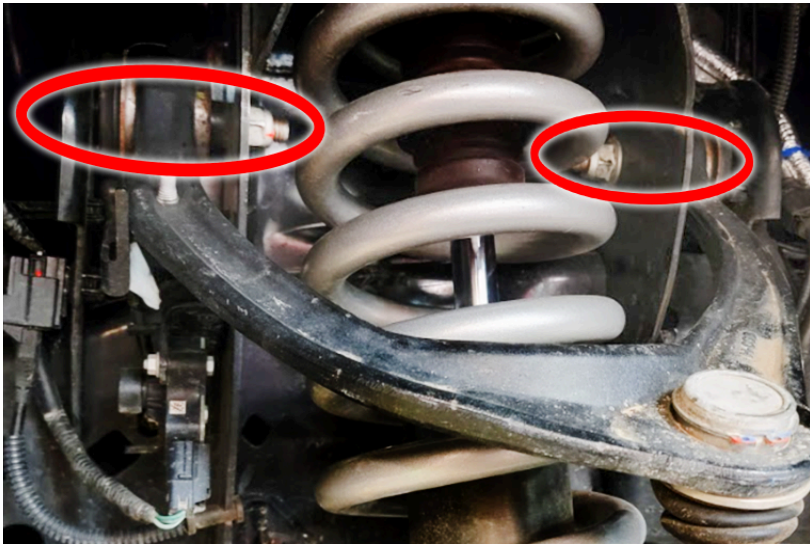
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Step 7:

- **Ford Raptors:**

Now the control arm bolts can be removed, do so at this time.



We recommend installing the control arm bolts in the reverse orientation on reinstallation. To do this on the driver side, the abs module is in the way.

Remove 2 bolts on the side of the frame and one bolt on the top of the frame. Then gently move the abs module up and out of the way so a bolt can be installed.

- **For Gen 3 Raptors on the passenger side:** A wiring harness is in the way, Remove the 8mm bolt and the harness will have enough slack to be moved out of the way and the control arm bolt to go in.



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Step 8:

- **Ford Raptors:**

If equipped with ride height sensors, [Click on this link & print out this supplied template](#) to drill holes for the ride height sensor, and relocate to associated holes as shown in photo below.

Also transfer the ball stud from the stock control arm to the bracket on new control arm.





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Step 9:

- **Ford Raptors:**

Install new upper control arm, making sure to apply anti-seize to all spacers as well as to the taper going into the spindle

Step 10:

- **Ford Raptors:**

Reassemble in reverse order as assembly.
Then Repeat same process for other side



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Step 11:

- **Ford Bronco & Ram TRX:**

If is not necessary to remove the shock from the vehicle to remove the control arm. Remove bolts for brake line bracket and abs wire brackets as necessary, allow for slack in the lines

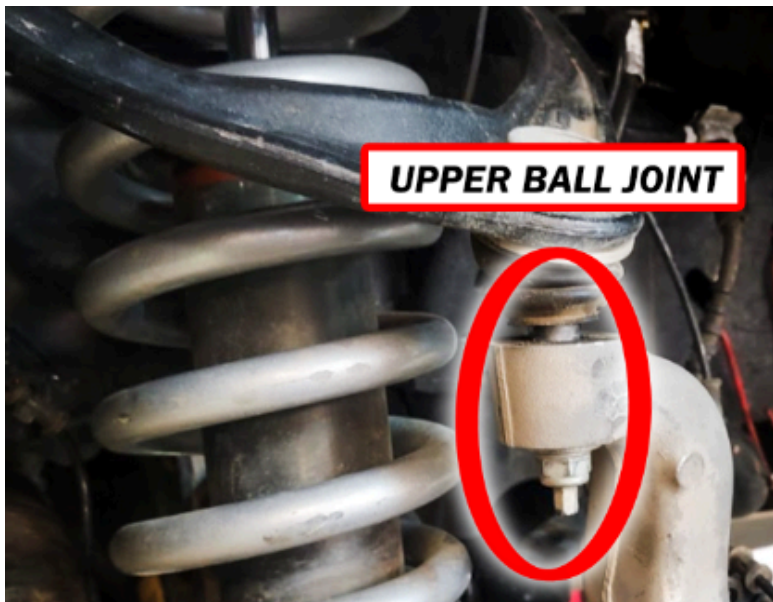
Step 12:

- **Ford Bronco & Ram TRX:**

Loosen the upper ball joint nut but dont remove, strike spindle face by the ball joint to shock the upper ball joint loose.

Then remove the nut and ball joint from the spindle.

Allow spindle to rotate to the rear of the truck making sure that abs and brake lines don't get tight



shown on gen 3 raptor for visual purposes



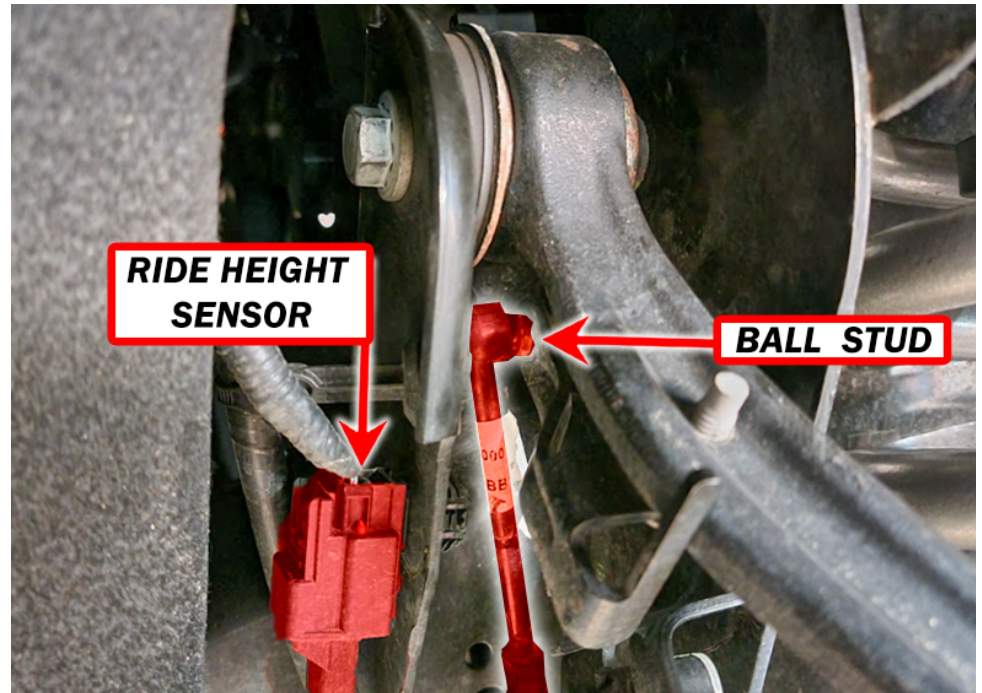
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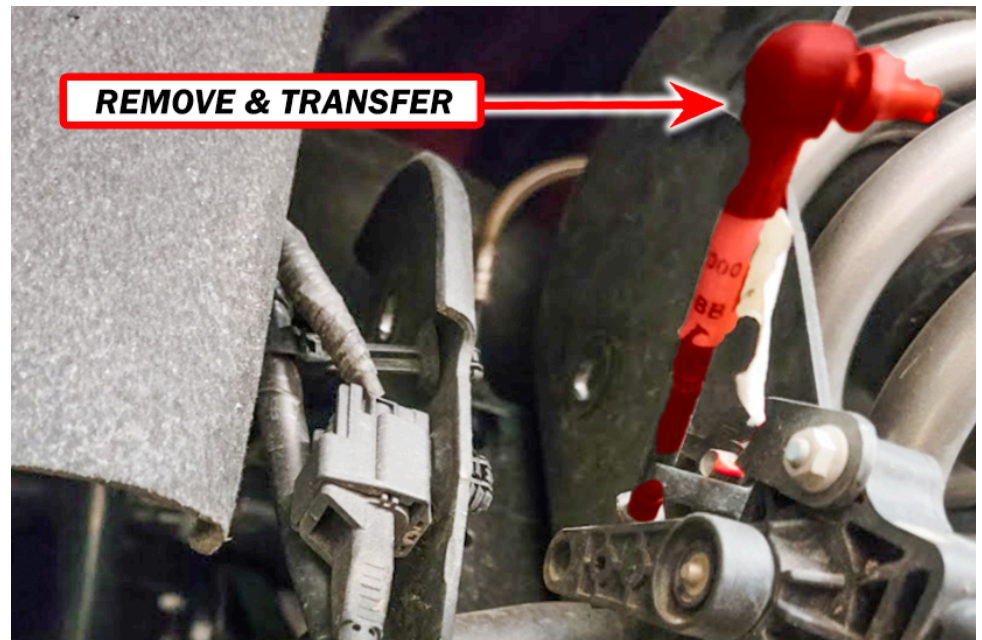
Step 13:

- Ford Bronco & Ram TRX:

If applicable,
Remove ride height
sensor from control
arm.



Then remove ball
stud from arm to
transfer to the
new control arm
and supplied
Bracket





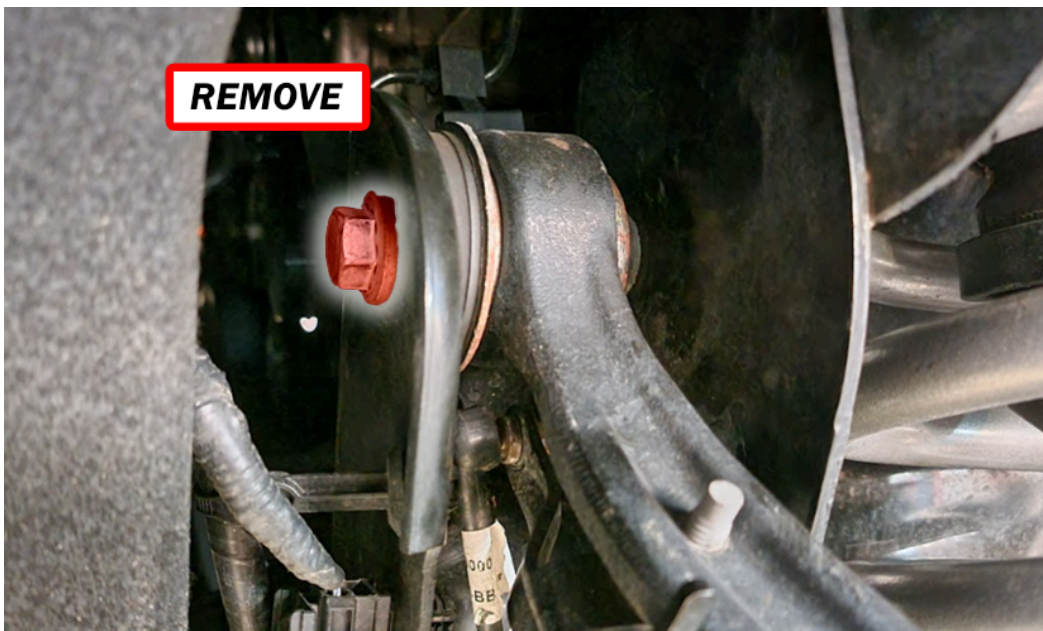
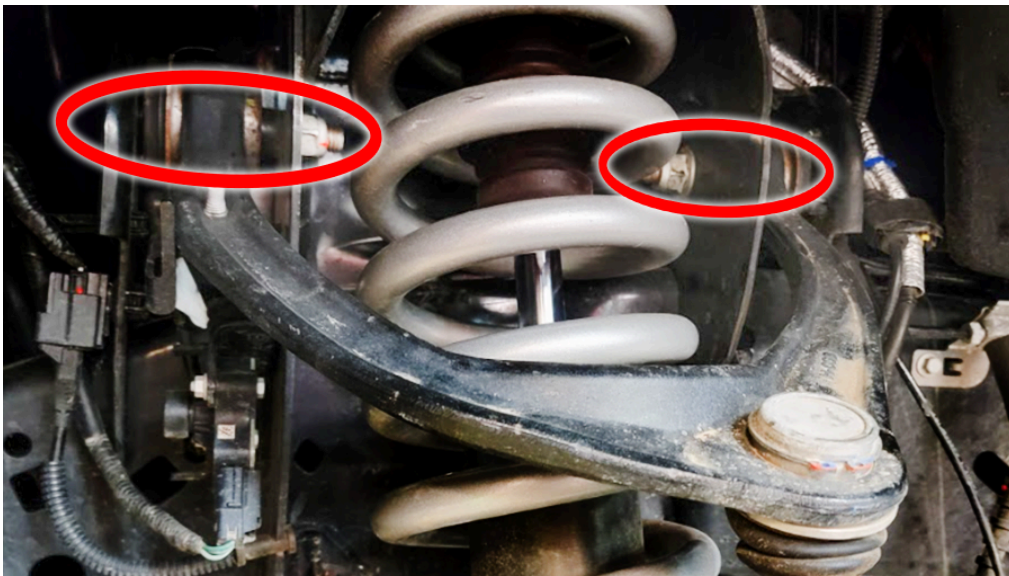
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Step 14:

Ford Bronco & Ram TRX:

Loosen upper control arm bolt or bolts and remove control arm from the vehicle





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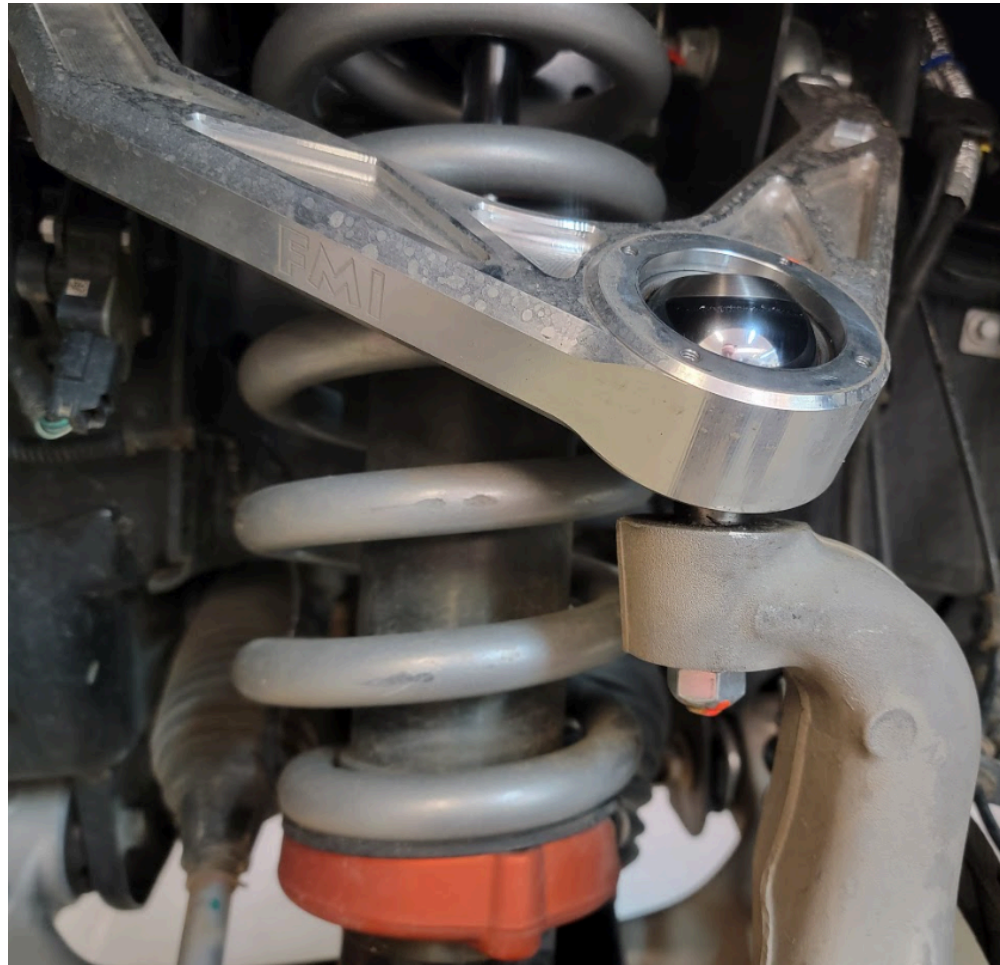
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Step 15:

Ford Bronco & Ram TRX:

Install new control arm and associated ride height sensor ball studs if necessary.

Make sure to apply anti-seize to all spacers and to the taper of the spacer going into the spindle.



Step 16:

Ford Bronco & Ram TRX:

Re-assemble parts in reverse order of disassembly