



# FABRICATED LOWER CONTROL ARMS

**INSTALL** RAPTOR | BRONCO | BRONCO RAPTOR | RAM TRX



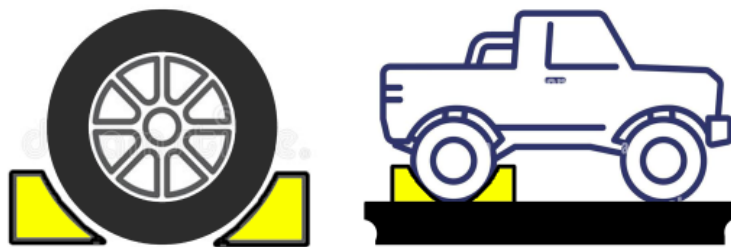
\*\*\* THE PICTURES IN THIS DOCUMENT ARE SHOWN ON A GEN 3 RAPTOR  
FOR VISUAL INSTALL PURPOSES.  
ALL STEPS APPLY UNLESS OTHERWISE NOTED \*\*\*

## Step 1:

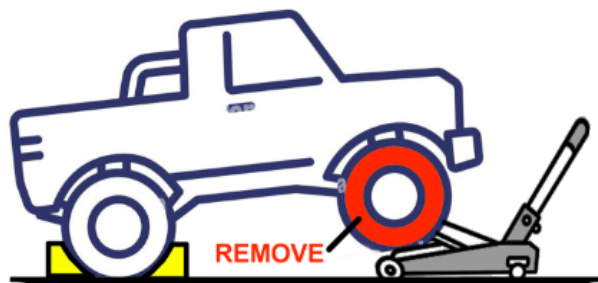
Park vehicle on level ground and set the parking brake.



Place wheel chocks on the rear tires.



Remove both front tires





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## Step 1:

Look at the lower control arm bolts and mark their location in the lower control arm pocket - either in the slot or if cams have been installed.

On the cams, this will allow you to put the arms back as close to where they were as possible.

**Remember:** an alignment is still required after install

## Step 2:

Starting on the drivers side, remove bolts holding abs wire and brake line brackets to the spindle





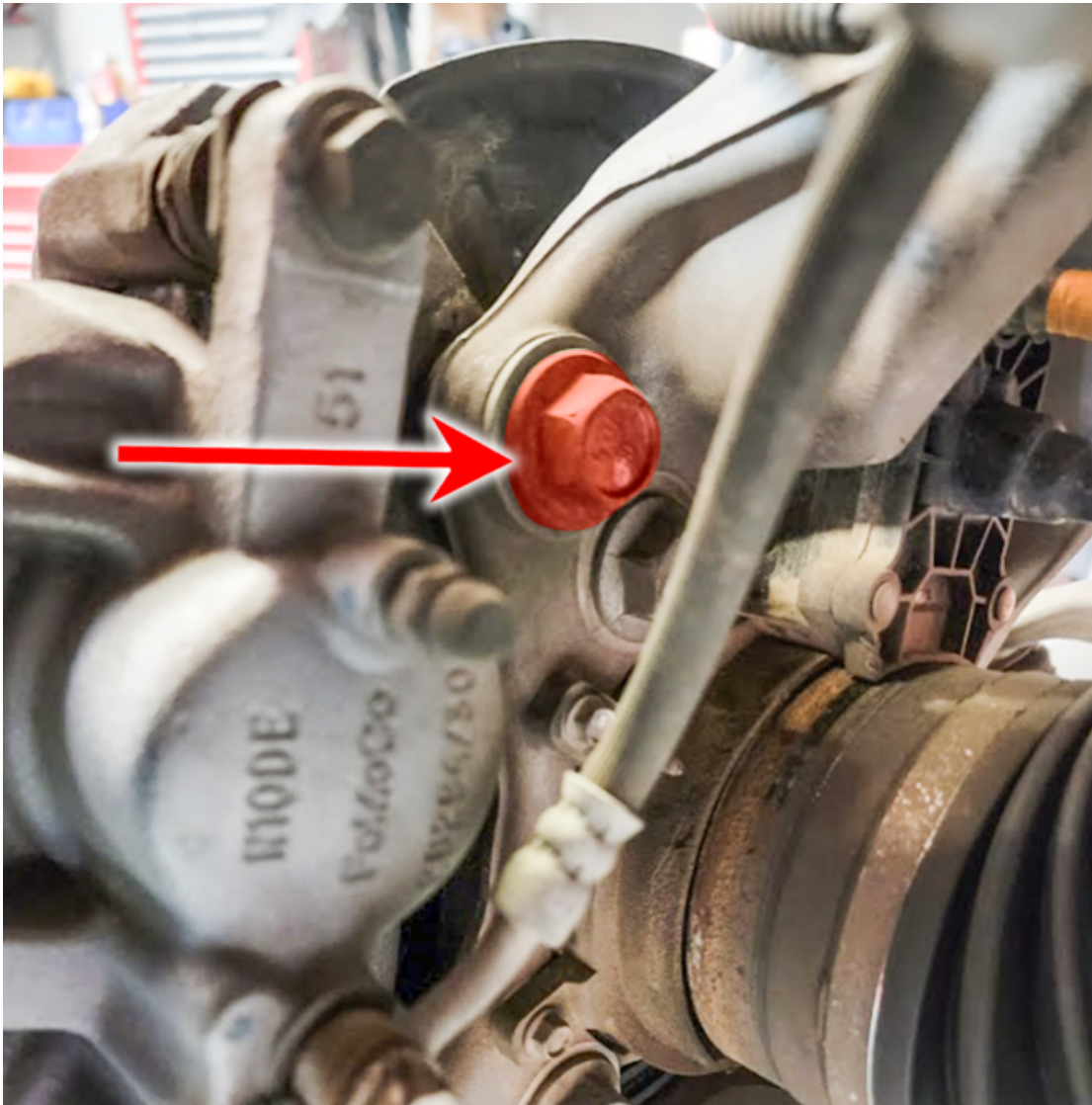
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## Step 3:

Remove brake caliper bracket and caliper and hang it from the frame with a hook or bungee cord.

Don't allow the caliper to hang by the brake hose or damage will occur.



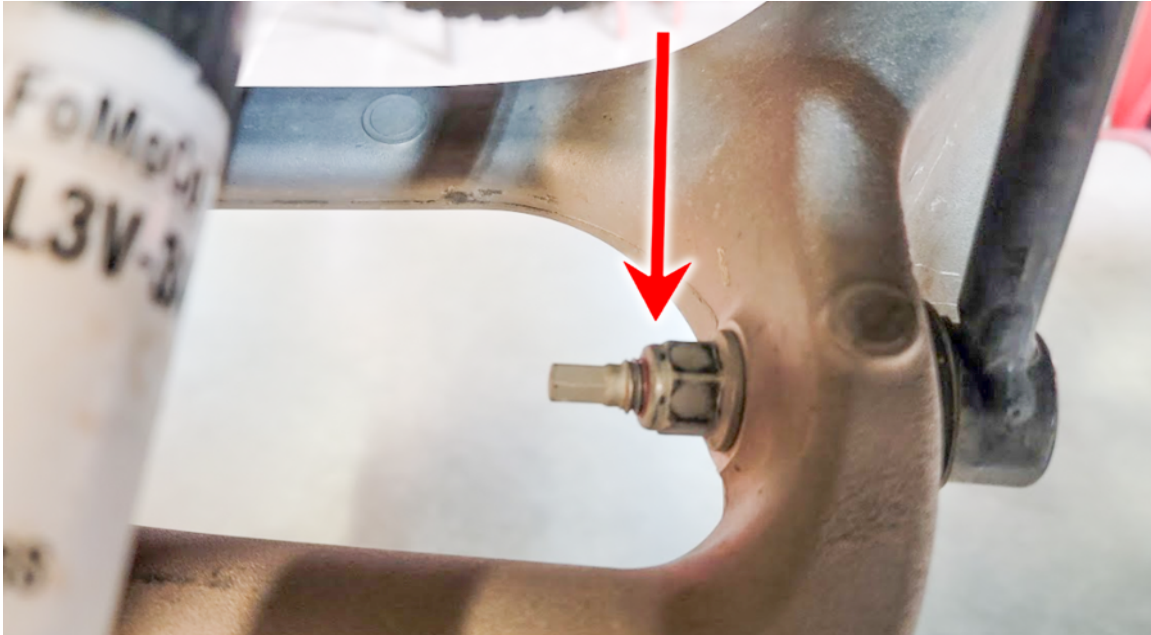


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## Step 4:

Remove the nut from the sway bar link at the control arm.



- **Ford Raptor:** continue to remove stock sway bar, it is not compatible with our lower control arms
- **Ram TRX:** remove sway bar link from stock sway bar, and on reassembly install supplied sway bar link and spacers
- **Ford Bronco:** with electronic disconnect sway bar, remove sway bar link from stock sway bar, then the sway bar will need to be cut down and a new hole drilled to install supplied sway bar link



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## Step 5:

Loosen and remove axle nut



- **Ford Raptor:** DO NOT USE IMPACT TOOLS FOR REMOVAL OR INSTALLATION - the threads will break and the whole axle needs to be replaced
- **Ford Bronco & Ram TRX:** using an air hammer with a point bit is what we've found works best for pushing the axle out of the hub.

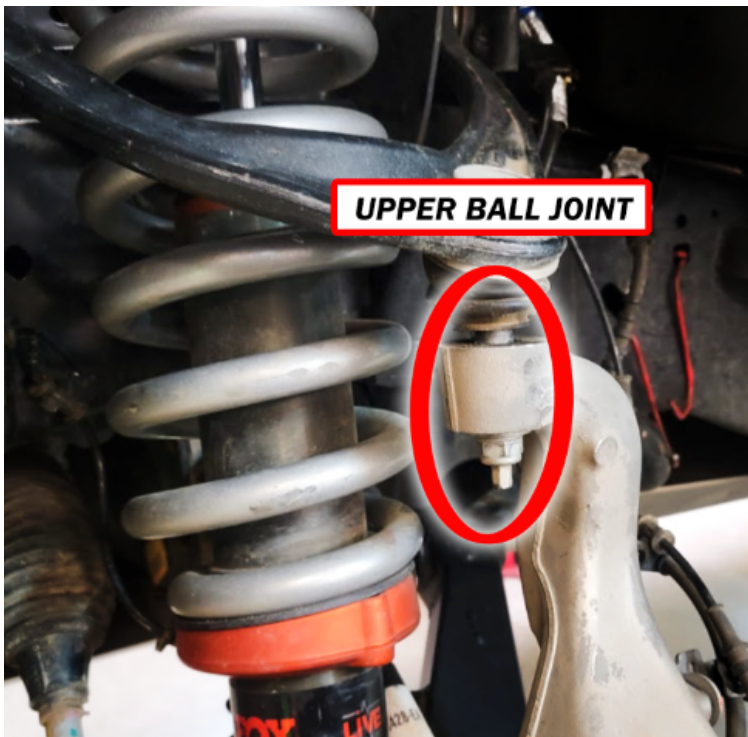


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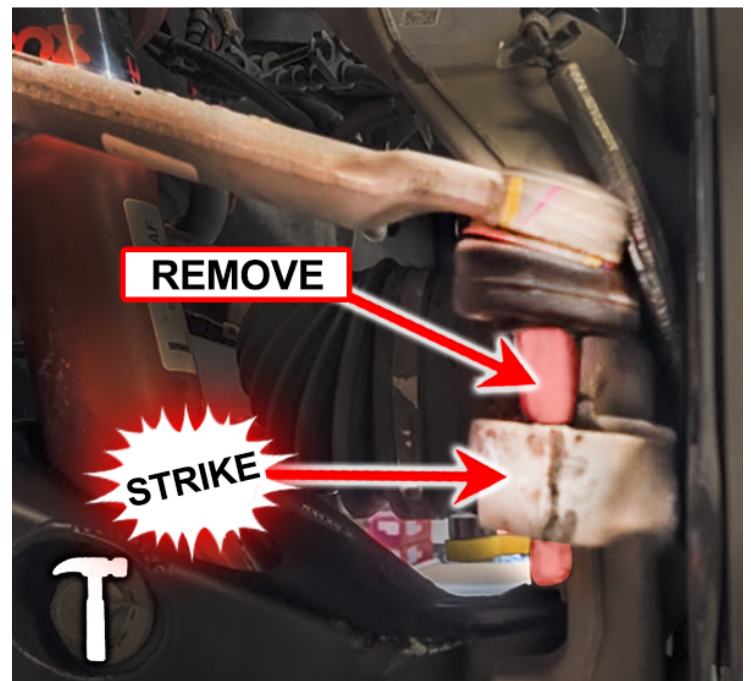
## Step 6:

Loosen upper ball joint nut, lower ball joint nut, and tie rod nut



Then strike spindle next to each ball joint to remove the upper ball joint nut and Tie rod nut.

This will allow the spindle to rotate to the rear of the truck.





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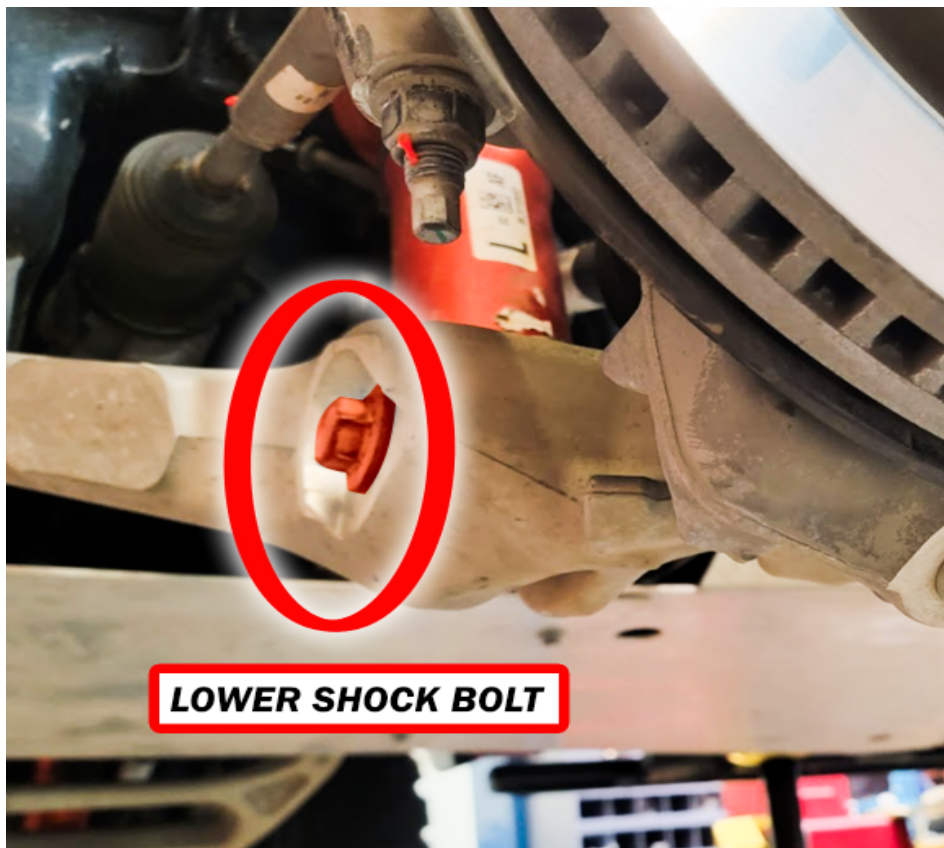
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## Step 6:

Remove the spindle, to do so lay the spindle towards the outside of the truck and it will come off the lower ball joint and the axle at the same time.

## Step 7:

Remove the lower shock bolt



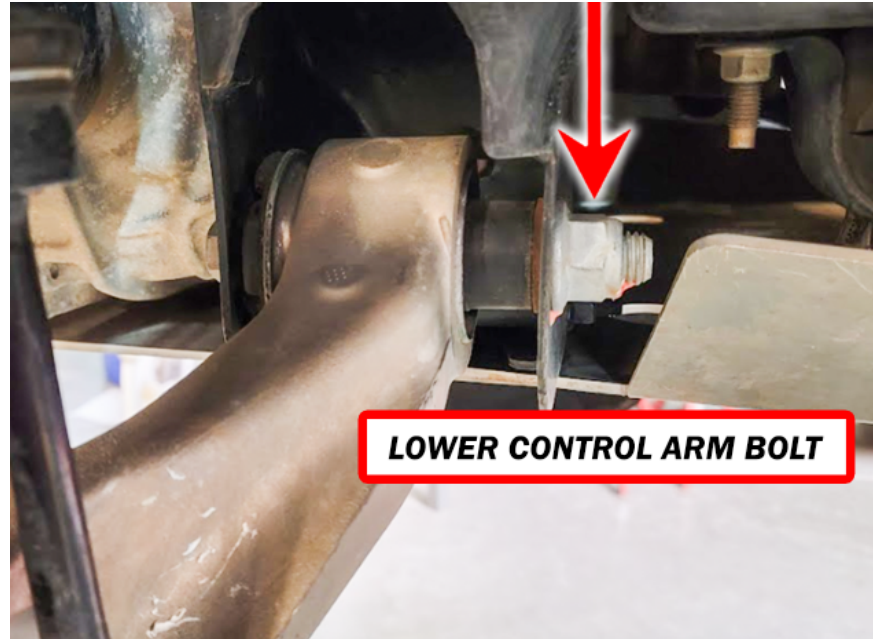
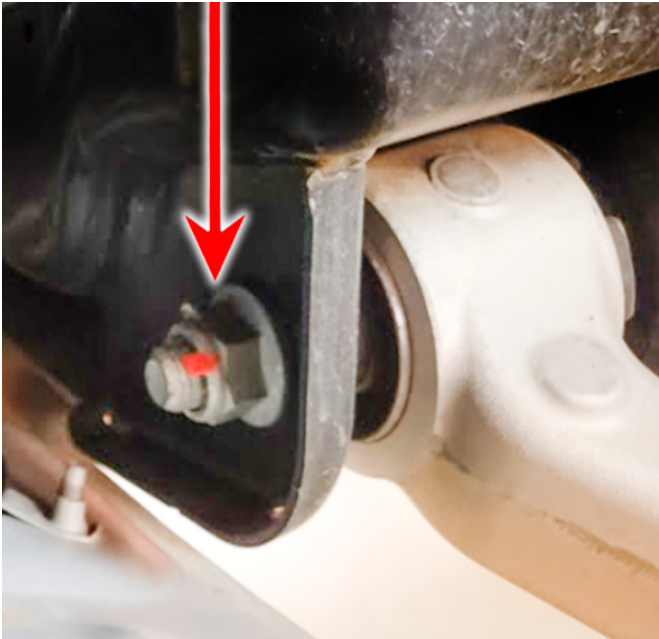


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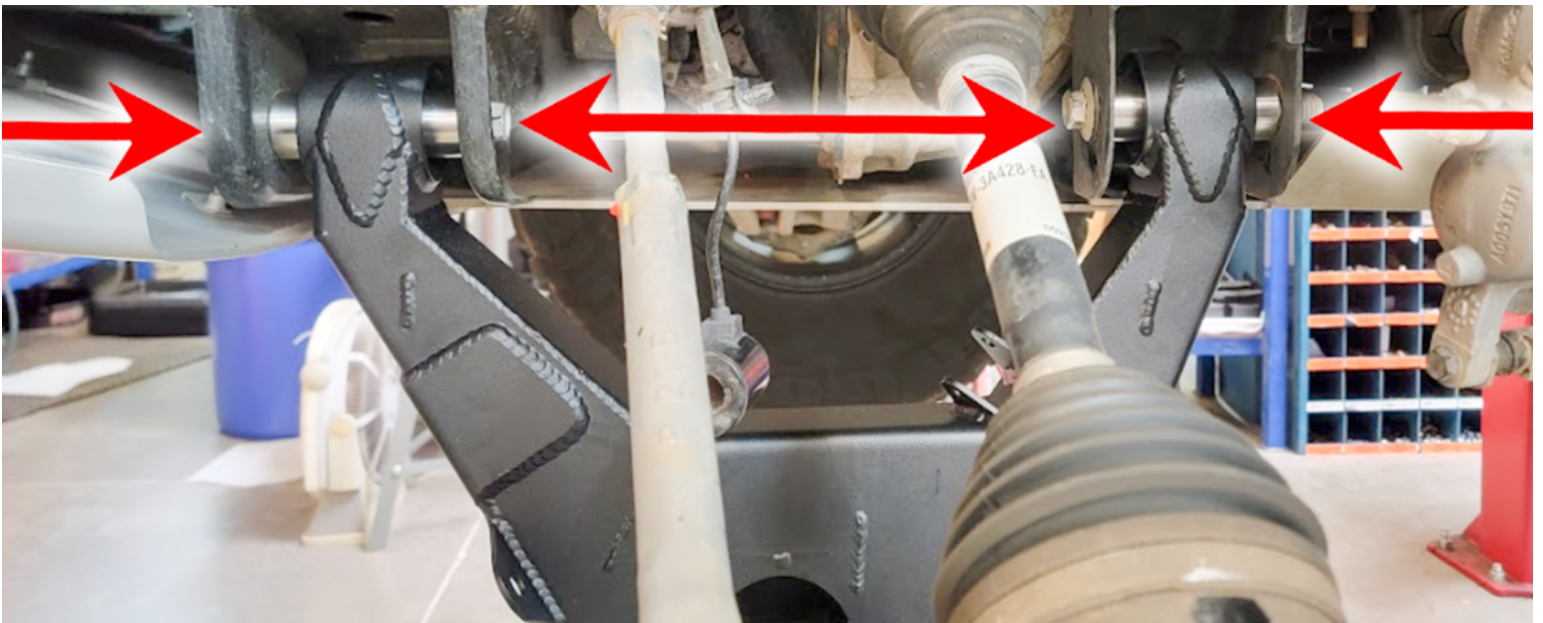
## Step 8:

Remove both lower control arm bolts and set aside.



## Step 9:

Install new lower control arm with stock lower control arm bolts





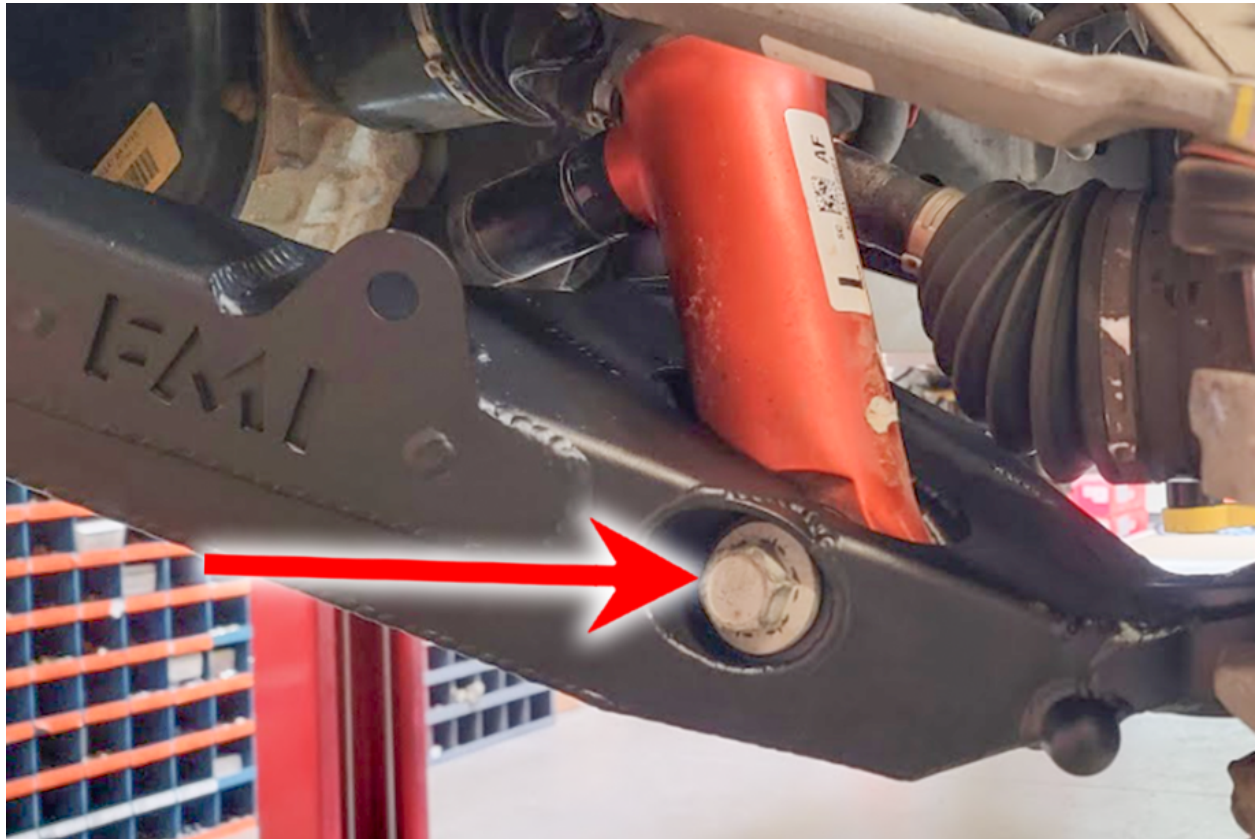


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## Step 10:

Install lower shock bolt



## Step 11:

Install the spacers into the lower control arm uniball, use anti-seize on the spacers and on the taper going into the spindle.

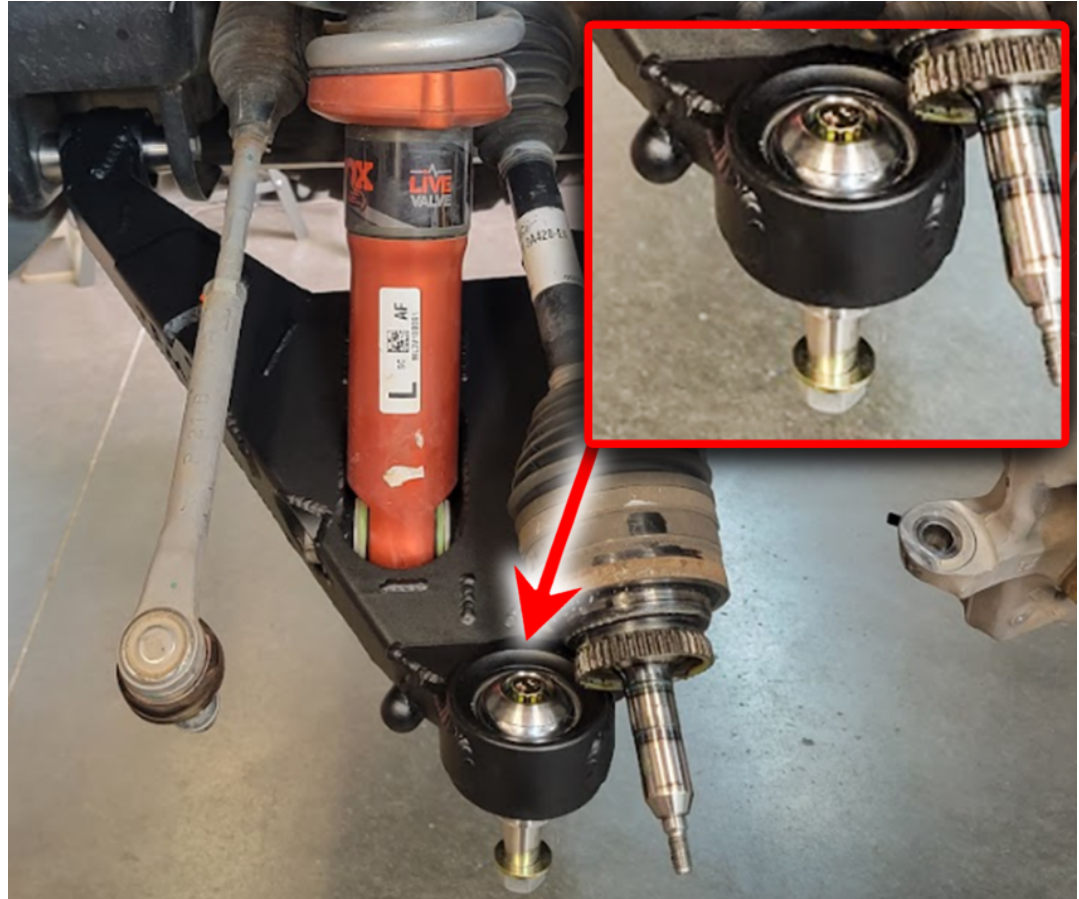


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## Step 11 (cont.)

With the spacers in the uniball, rotate the ball so the taper is pointed towards the middle of the truck



- **Ram TRX:** install supplied spacer on the front side of the shock to space the shock rearward for tie rod clearance
- **Ford Raptor:** Remove the 4wd actuator from the hub, and install it onto the axle, this will aid in spindle installation and axle installation in 2 steps



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## Step 12:

Install the spindle onto the lower control arm taper spacer, then allow the uniball and spindle to rotate to a vertical position without installing the axle into the hub, then tighten the bolt.

## Step 13:

Install axle into the hub, this can be done by rotating the spindle to the rear and pushing the axle inwards to get enough clearance to slide it into the hub.

- **Ford Raptor:** keep the 4wd actuator on the cv axle, then the two can be installed into the spindle. Reinstall and tighten the actuator first, making sure that it gets tightened evenly, and that the actuator is seated flush before tightening

## Step 14:

Reassemble in reverse order of disassembly.

Repeat steps for other side

- **Ford Raptor:** install the sway bar links supplied with the sway bar kit. If no sway bar kit was ordered, the stock sway bar will not work and needs to be removed.
- **Ford Bronco & Ram TRX:** install the supplied new sway bar links