

Shock Absorber and Spring Assembly - Raptor

Base Part Number: Base Part Number: 18045

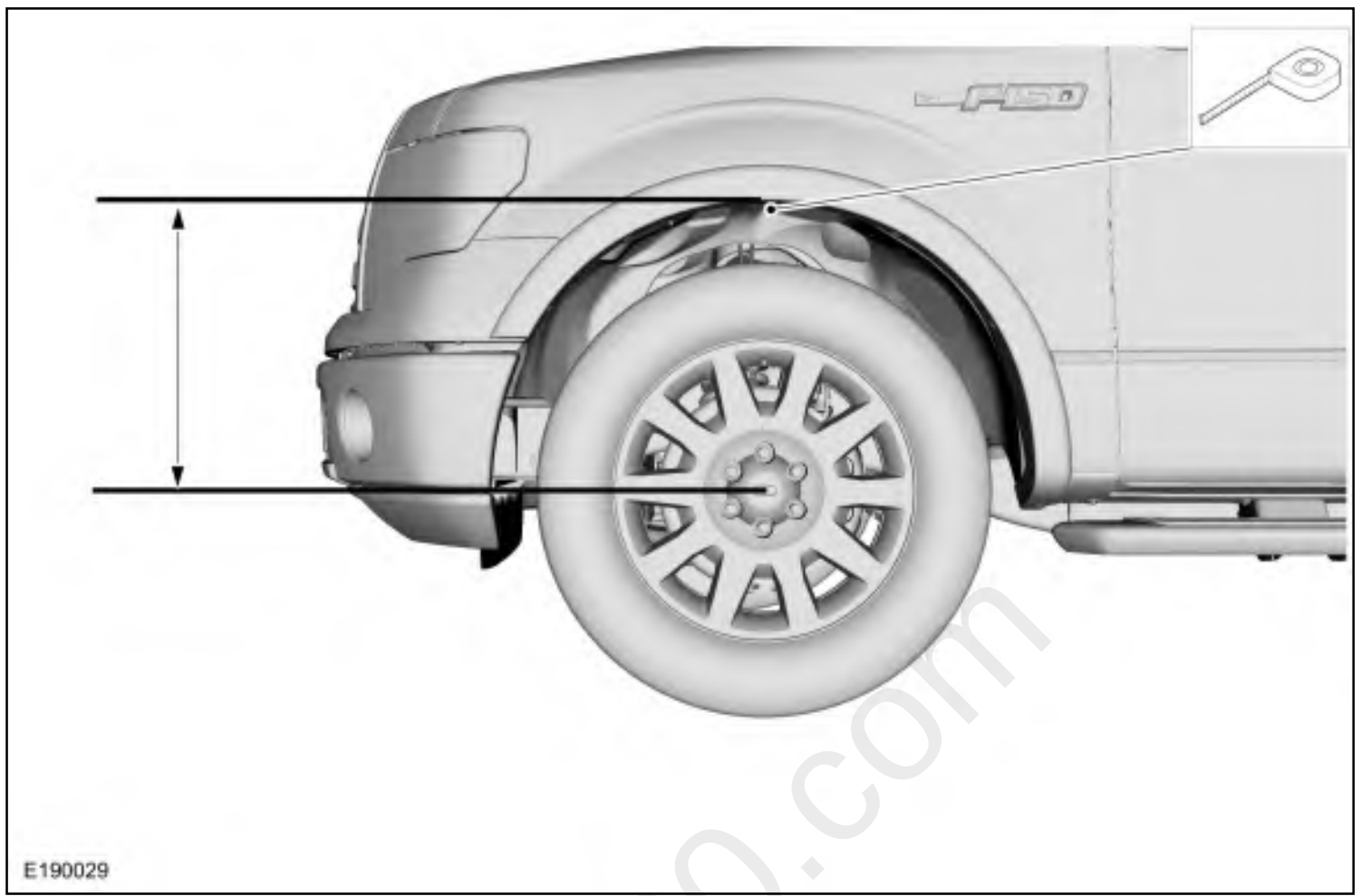
Special Tool(s) / General Equipment

	204-592 Separator, Lower Arm Ball Joint TKIT-2006C-FFMFLM TKIT-2006C-LM TKIT-2006C-ROW
Tie Rod End Remover	
Vehicle/Axle Stands	

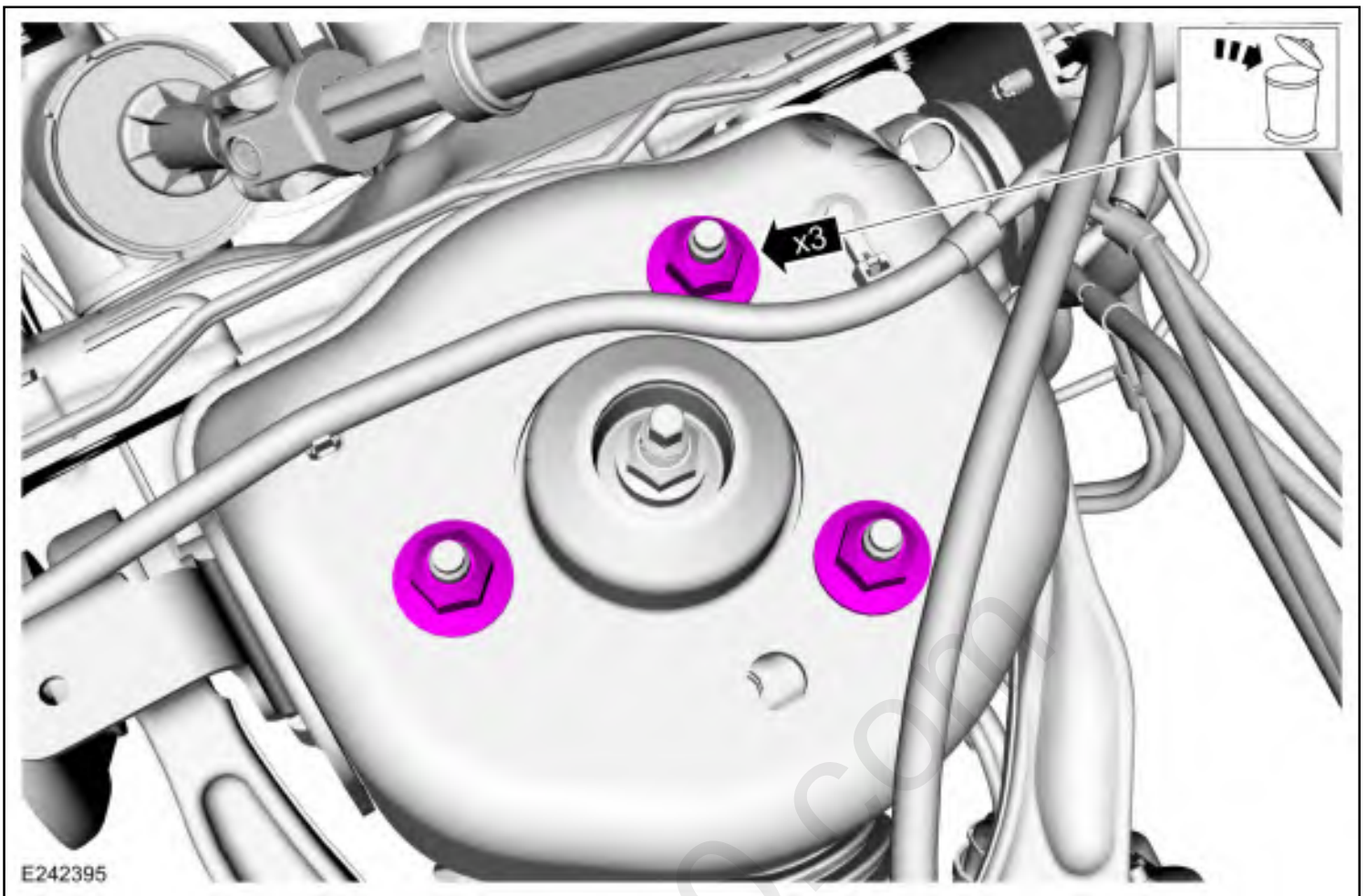
Removal

NOTICE: Suspension fasteners are critical parts that affect the performance of vital components and systems. Failure of these fasteners may result in major service expense. Use the same or equivalent parts if replacement is necessary. Do not use a replacement part of lesser quality or substitute design. Tighten fasteners as specified.

1. Measure the distance from the center of the hub to the lip of the fender with the vehicle in a level, static ground position (curb height).



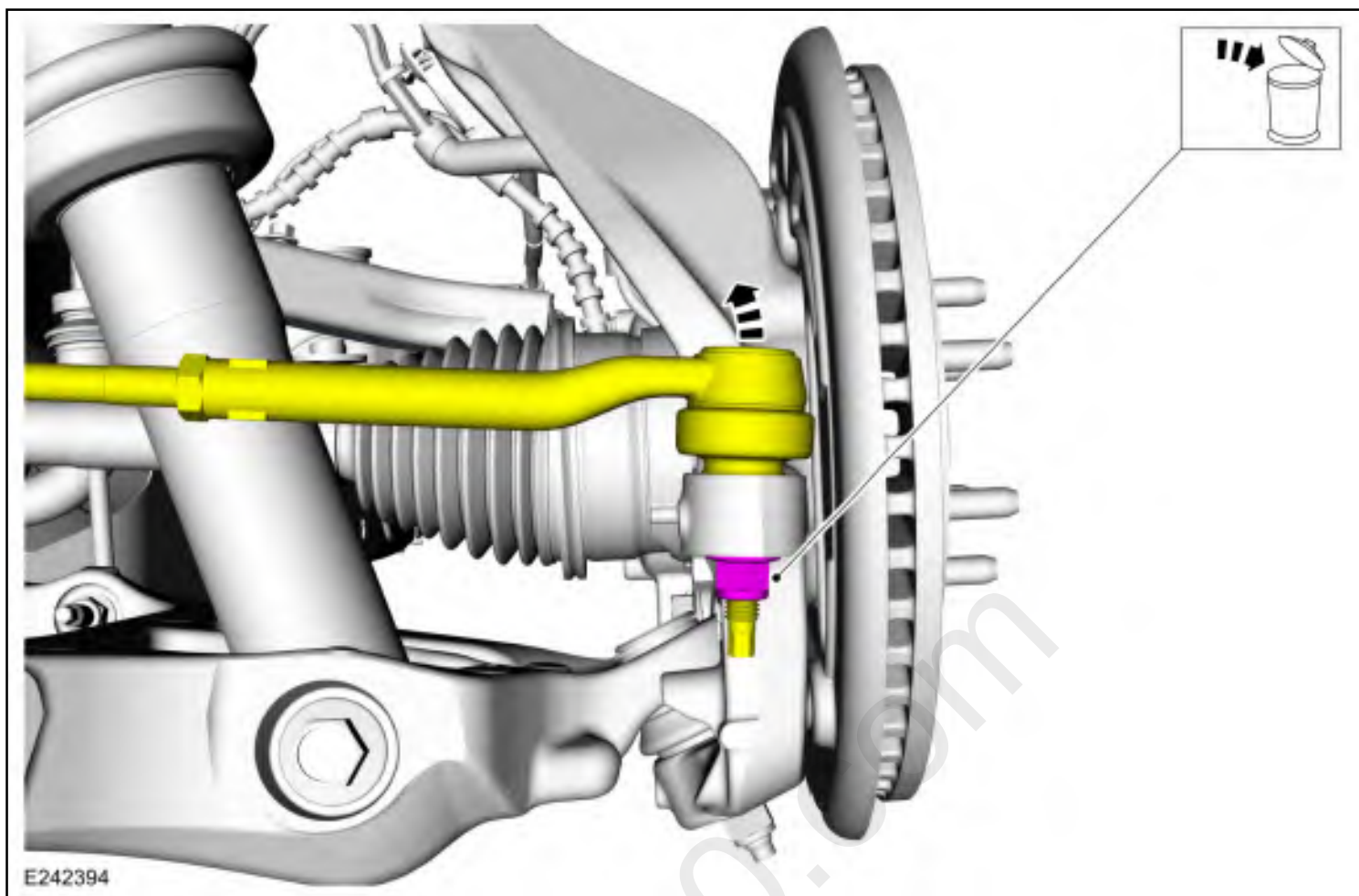
2. Remove and discard the shock absorber and spring assembly upper nuts.



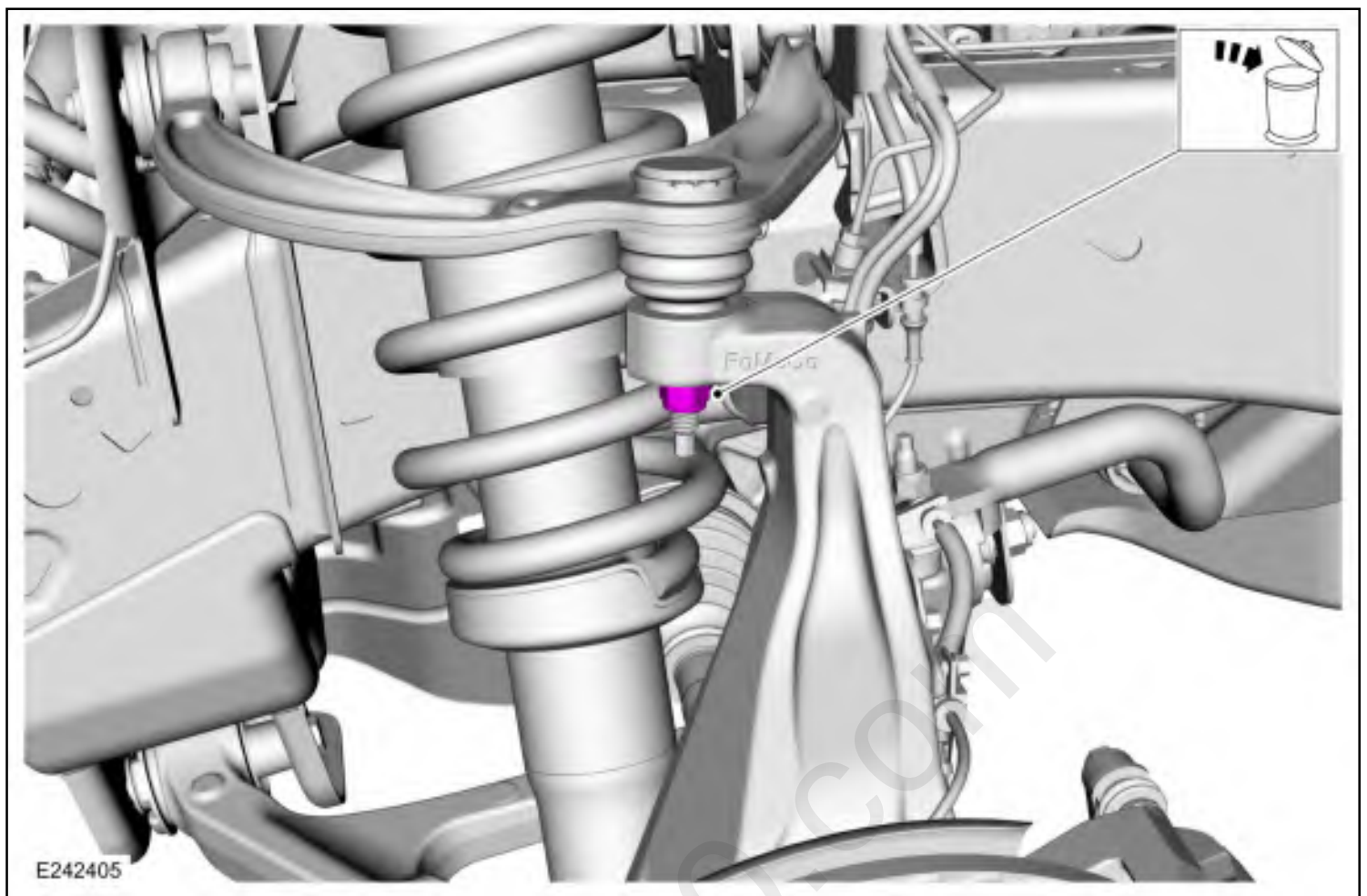
3. Remove the front wheel bearing and wheel hub.
Refer to: [Front Wheel Bearing and Wheel Hub](#) (204-01B Front Suspension - 4WD, Removal and Installation).
4. **NOTICE:** Do not use a hammer to separate the outer tie-rod end from the wheel knuckle or damage to the wheel knuckle may result.

NOTICE: Use care when installing the tie rod separator or damage to the outer tie-rod end boot may occur.

Remove and discard the tie rod end nut and separate the tie rod end from the wheel knuckle.
Use the General Equipment: Tie Rod End Remover



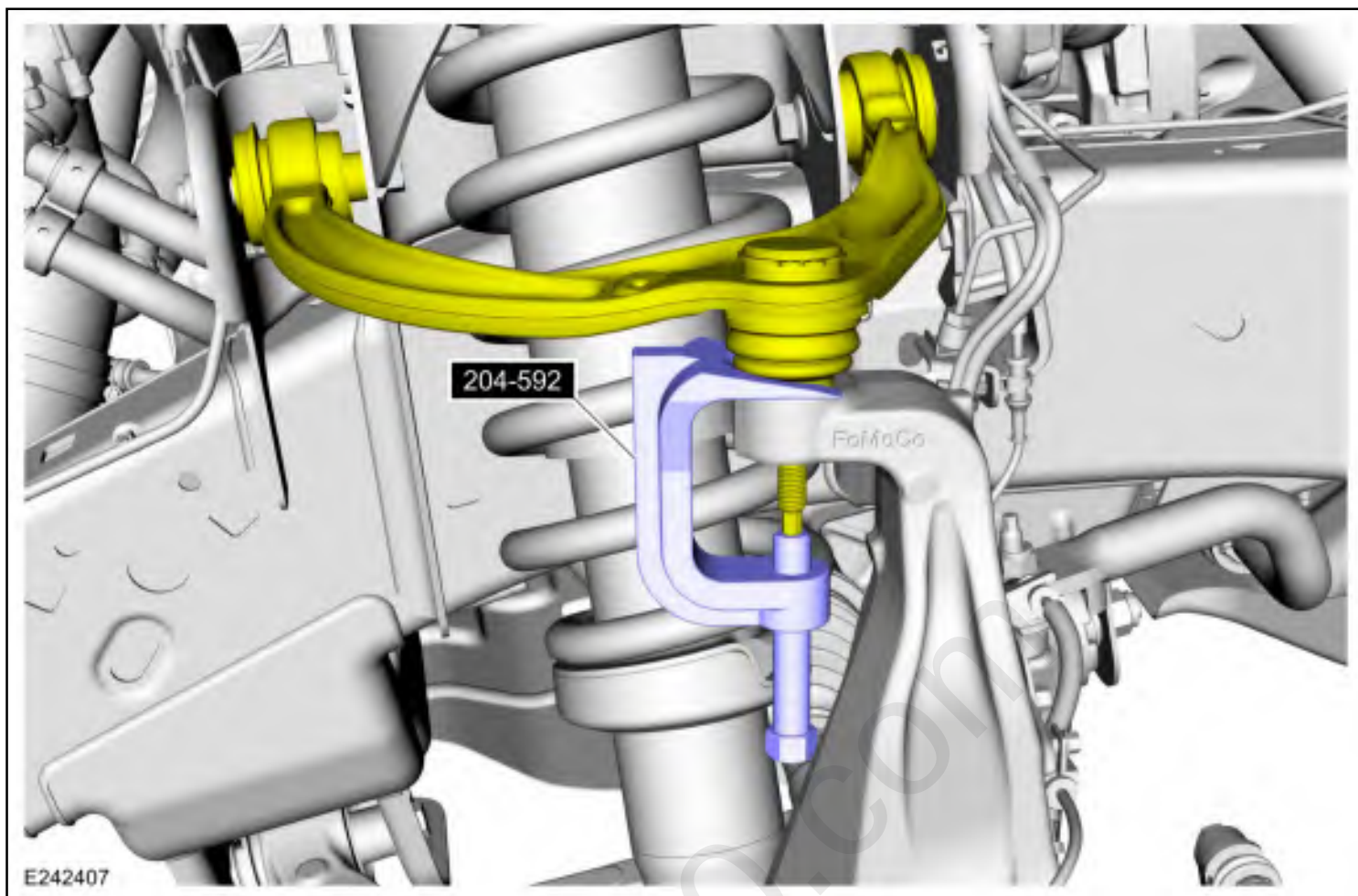
5. Remove and discard the upper ball joint nut.



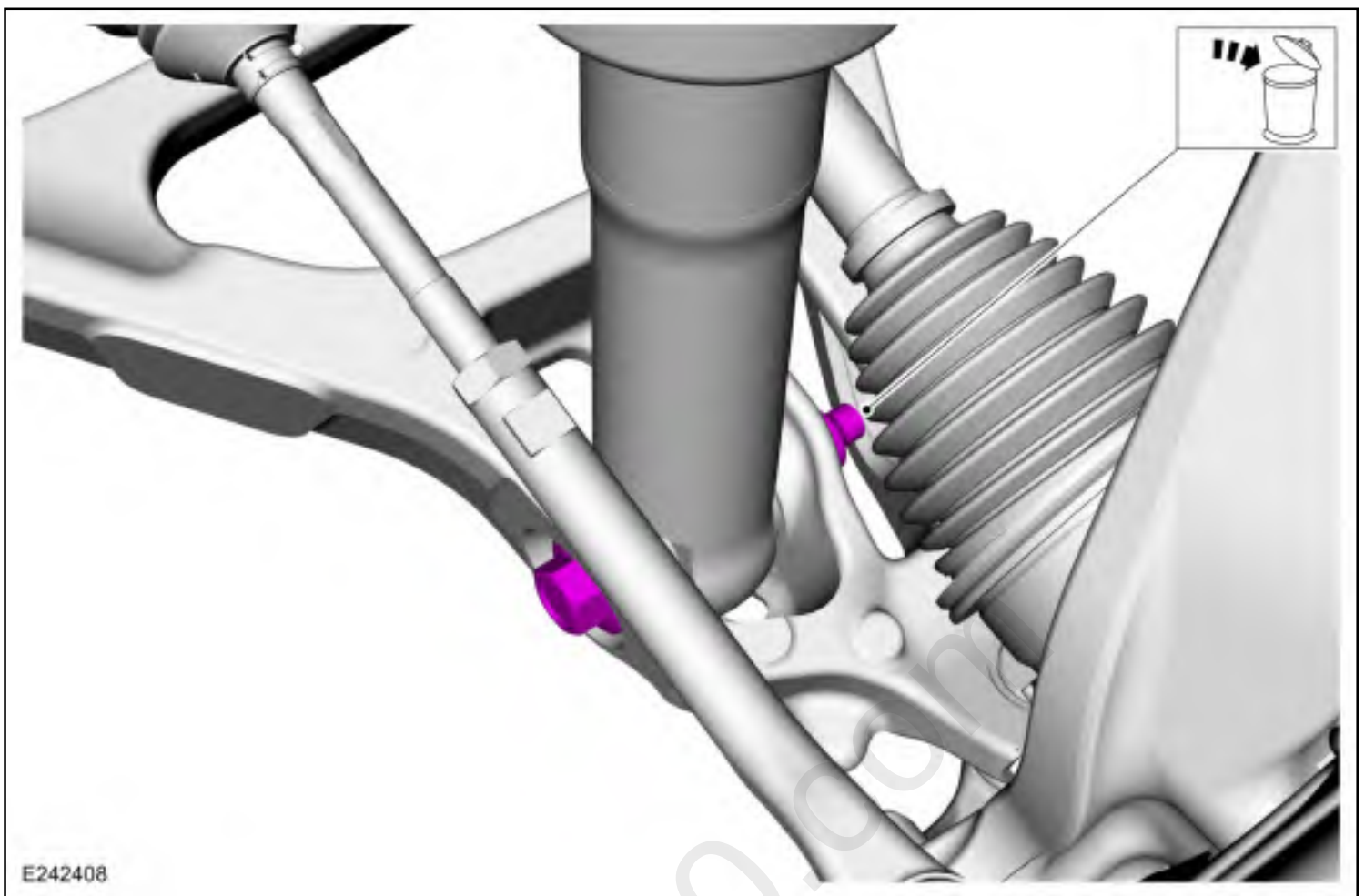
6. **NOTE:** *Be sure not to damage the ball joint boot when installing the Ball Joint Separator.*

Separate the upper ball joint from the wheel knuckle.

Use Special Service Tool: 204-592 Separator, Lower Arm Ball Joint.

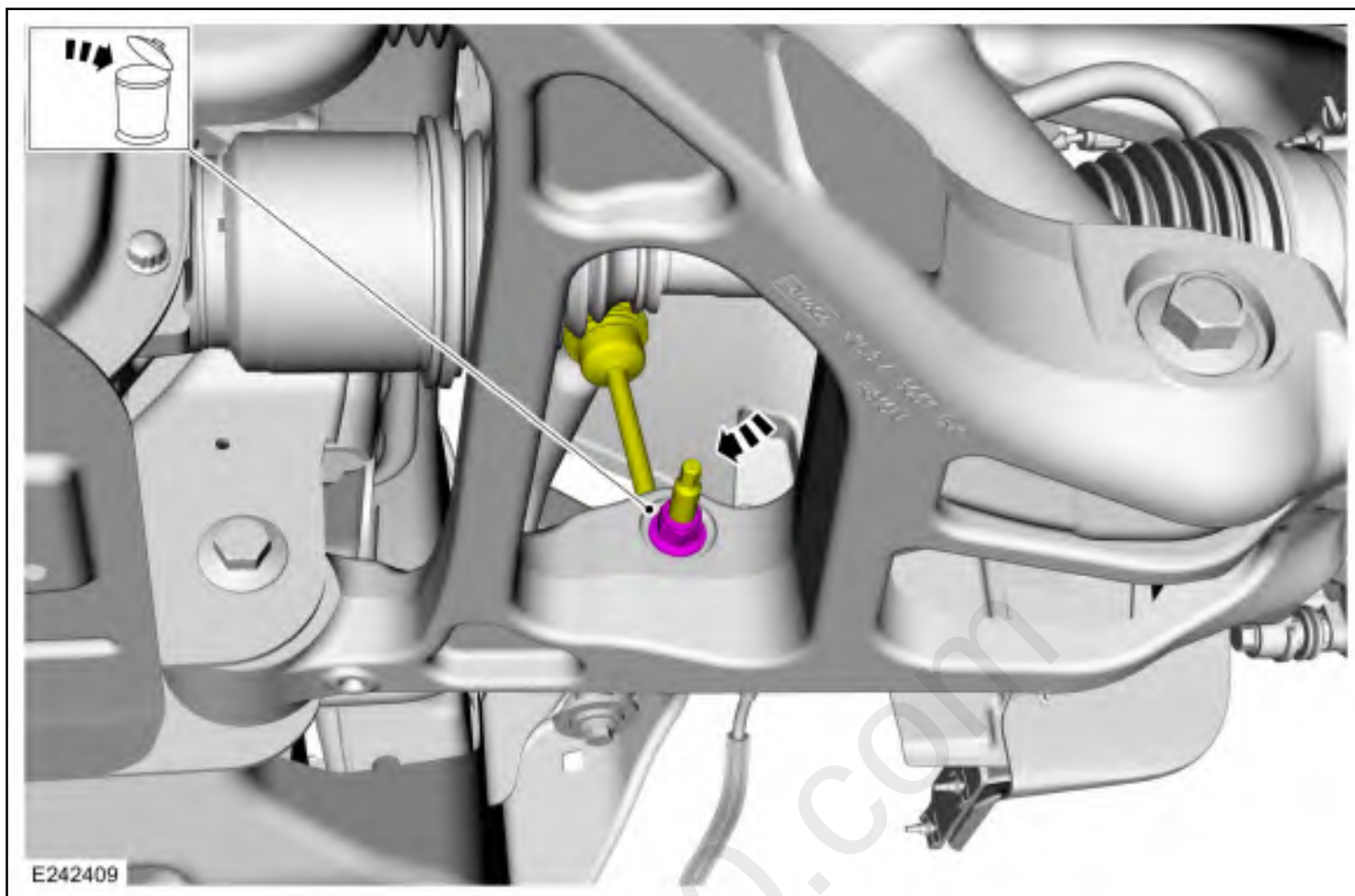


7. Remove and discard the lower shock absorber nut and bolt.

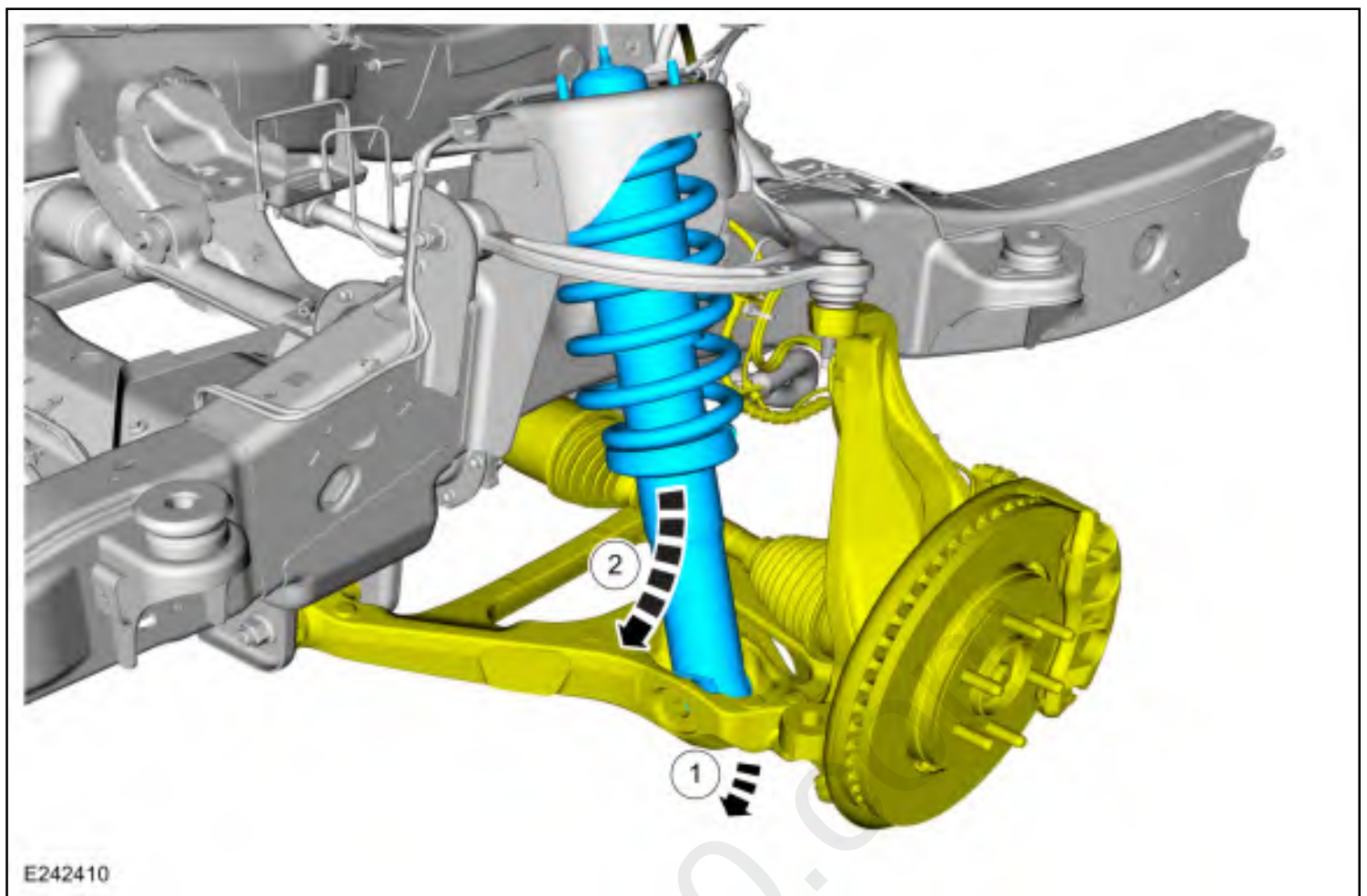


8. **NOTE:** Use the hex-holding feature to prevent the stud from turning while removing the nut.

Remove and discard the front stabilizer bar link lower nut and position the stabilizer bar link aside.

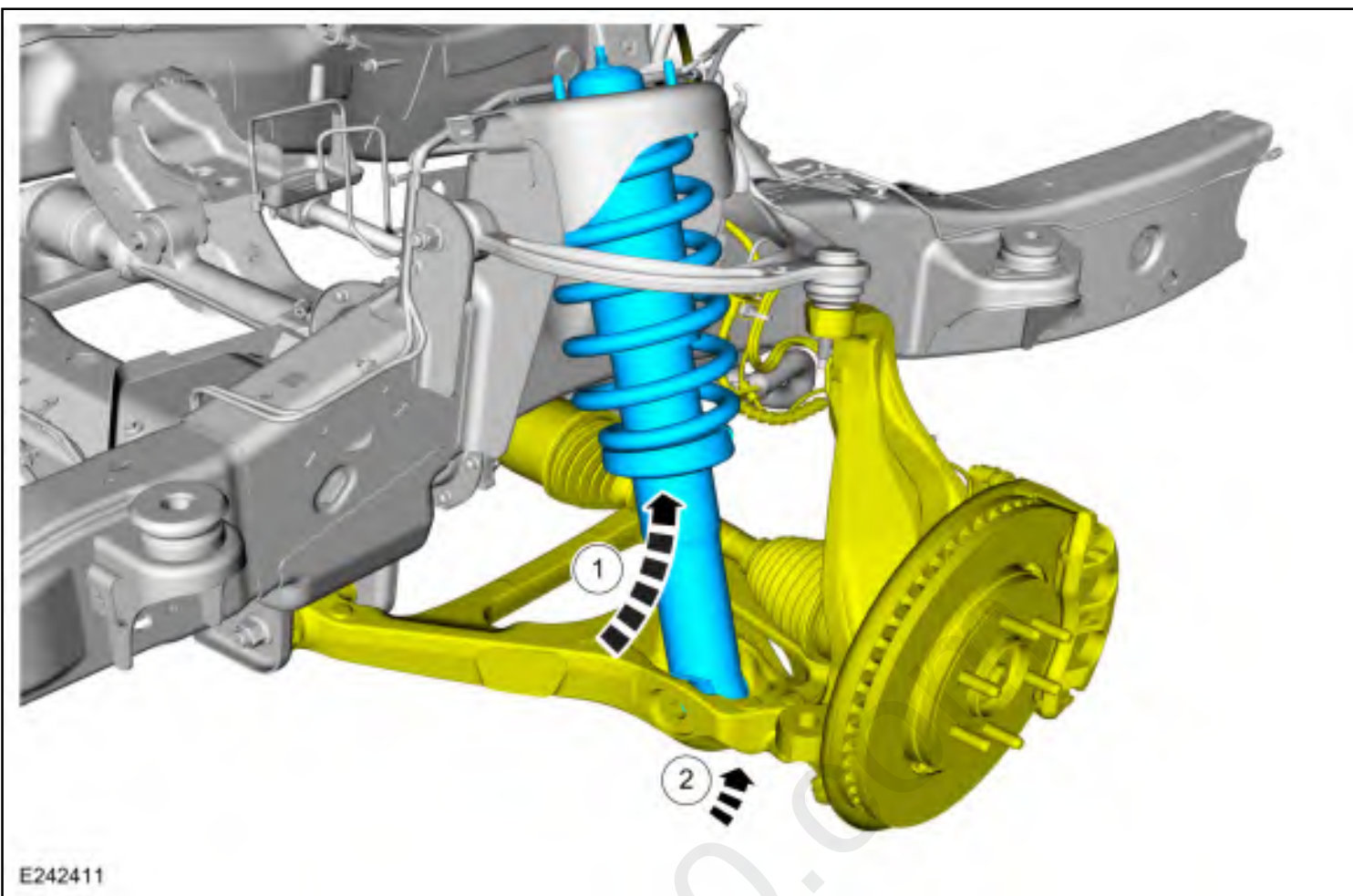


1. Lower the lower arm and wheel knuckle assembly.
2. Remove the shock absorber and spring assembly.

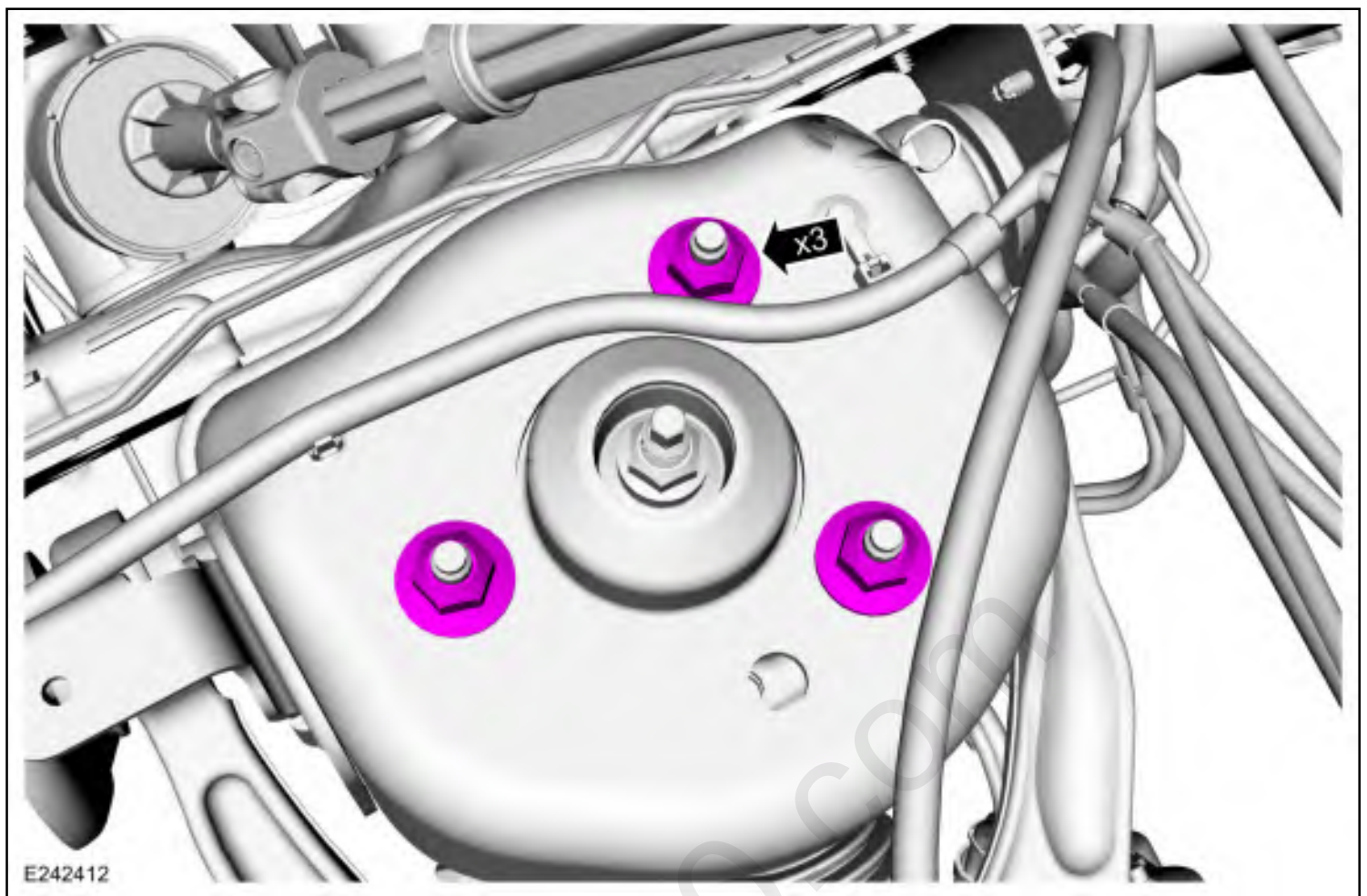


Installation

1. Install the shock absorber and spring assembly.
2. Raise the lower arm and wheel knuckle assembly.



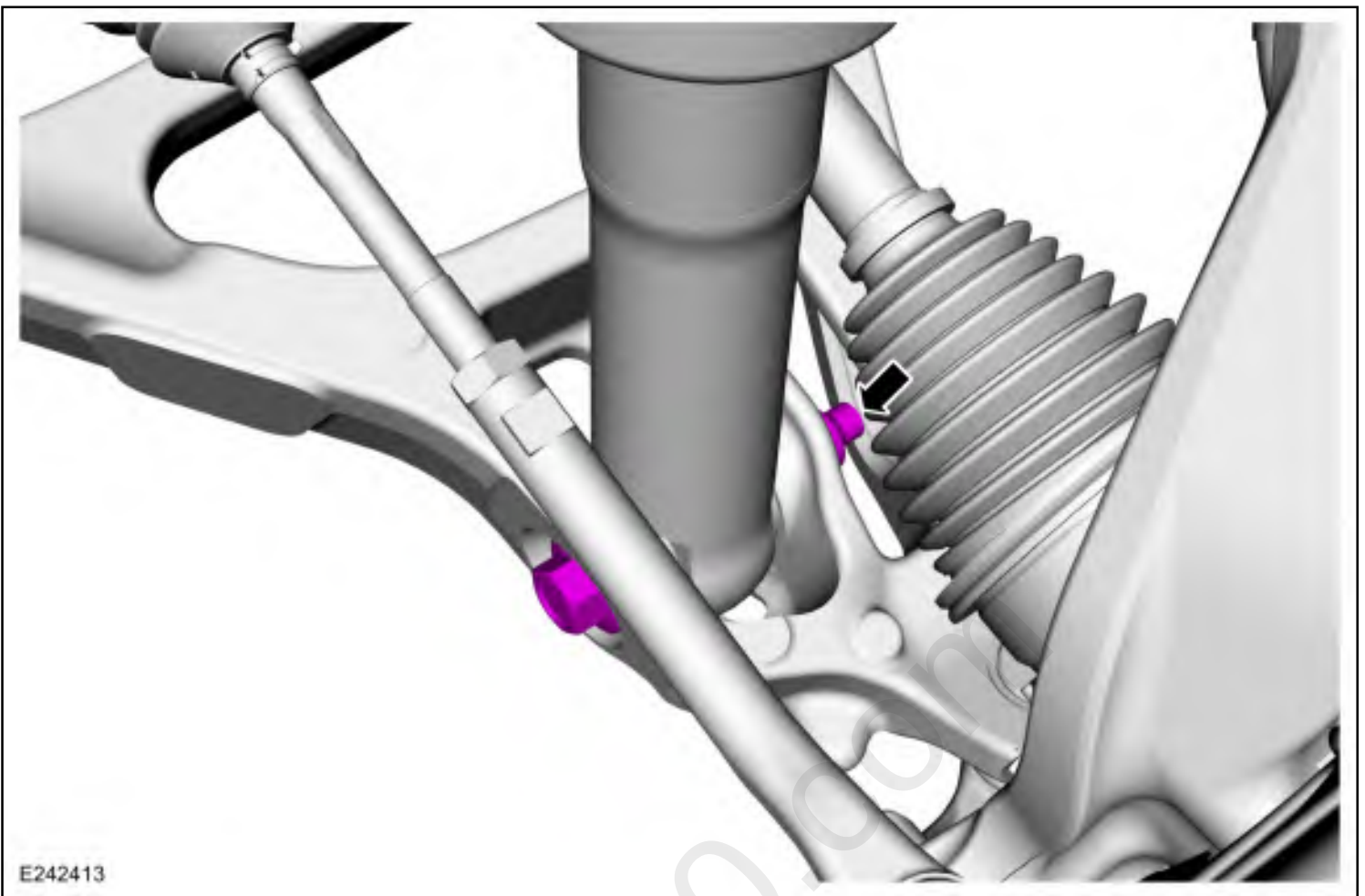
2. Install the new shock absorber and spring assembly upper nuts.
Torque: 52 lb.ft (70 Nm)



3. **NOTICE:** Do not tighten the lower shock nut and bolt until the installation procedure is complete and the weight of the vehicle is resting on the wheel and tire assemblies or incorrect clamp load and bushing damage may occur.

NOTE: Only tighten the nut and bolt finger tight at this stage.

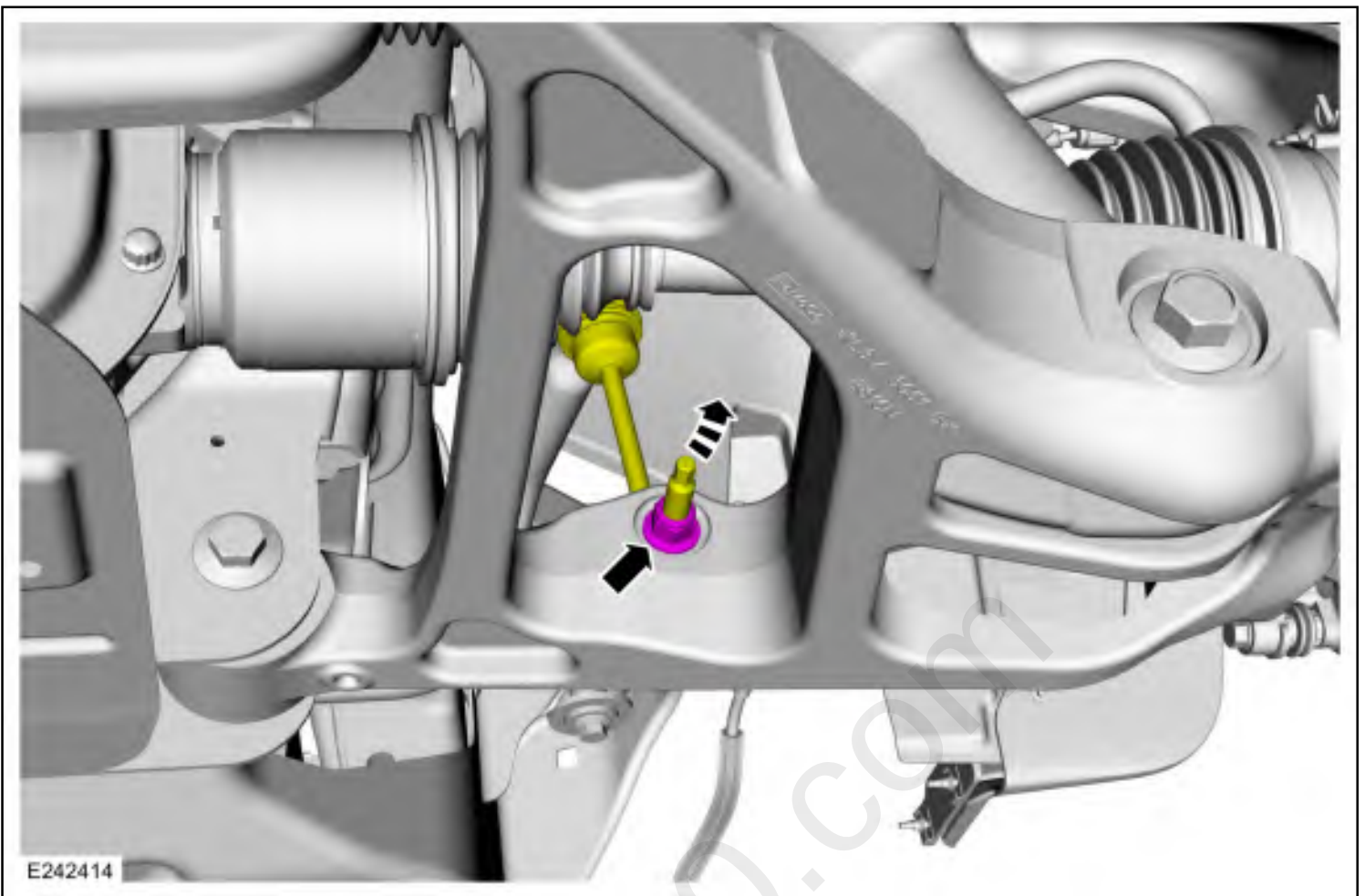
Install the new lower shock absorber nut and bolt.



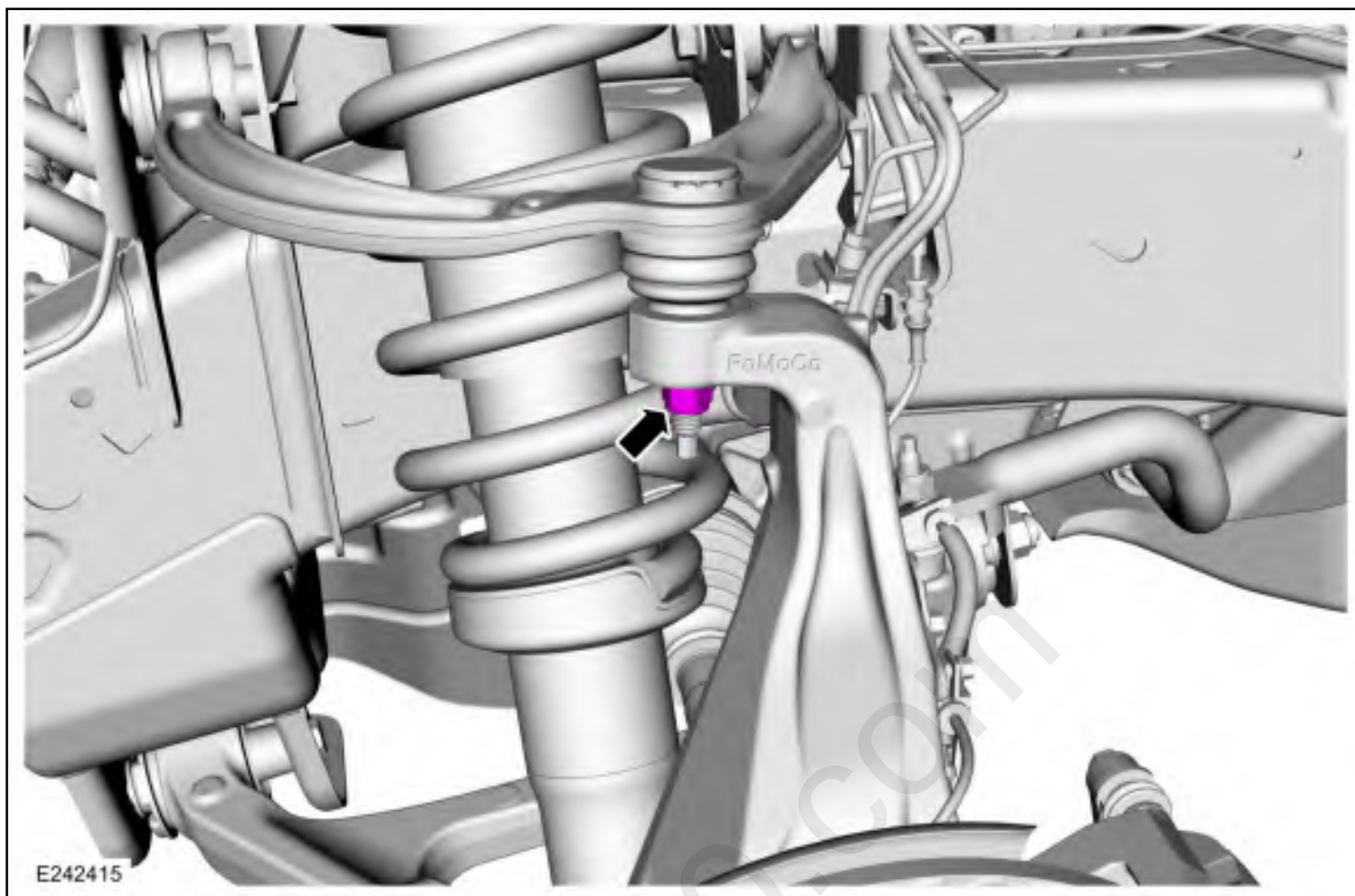
4. **NOTE:** Use the hex-holding feature to prevent the stud from turning while removing the nut.

Position the stabilizer bar link and install the new front stabilizer bar link lower nut.

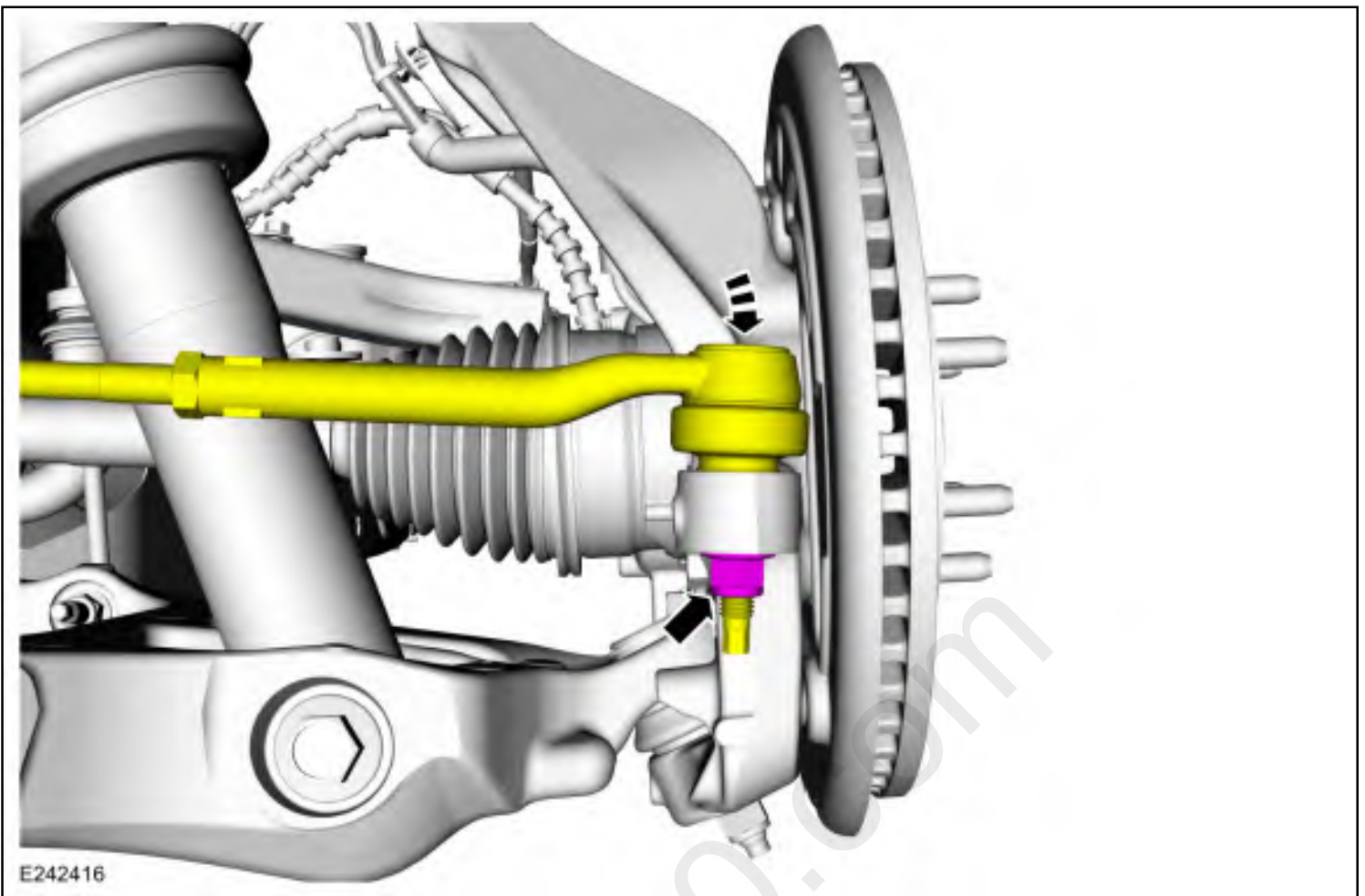
Torque: 59 lb.ft (80 Nm)



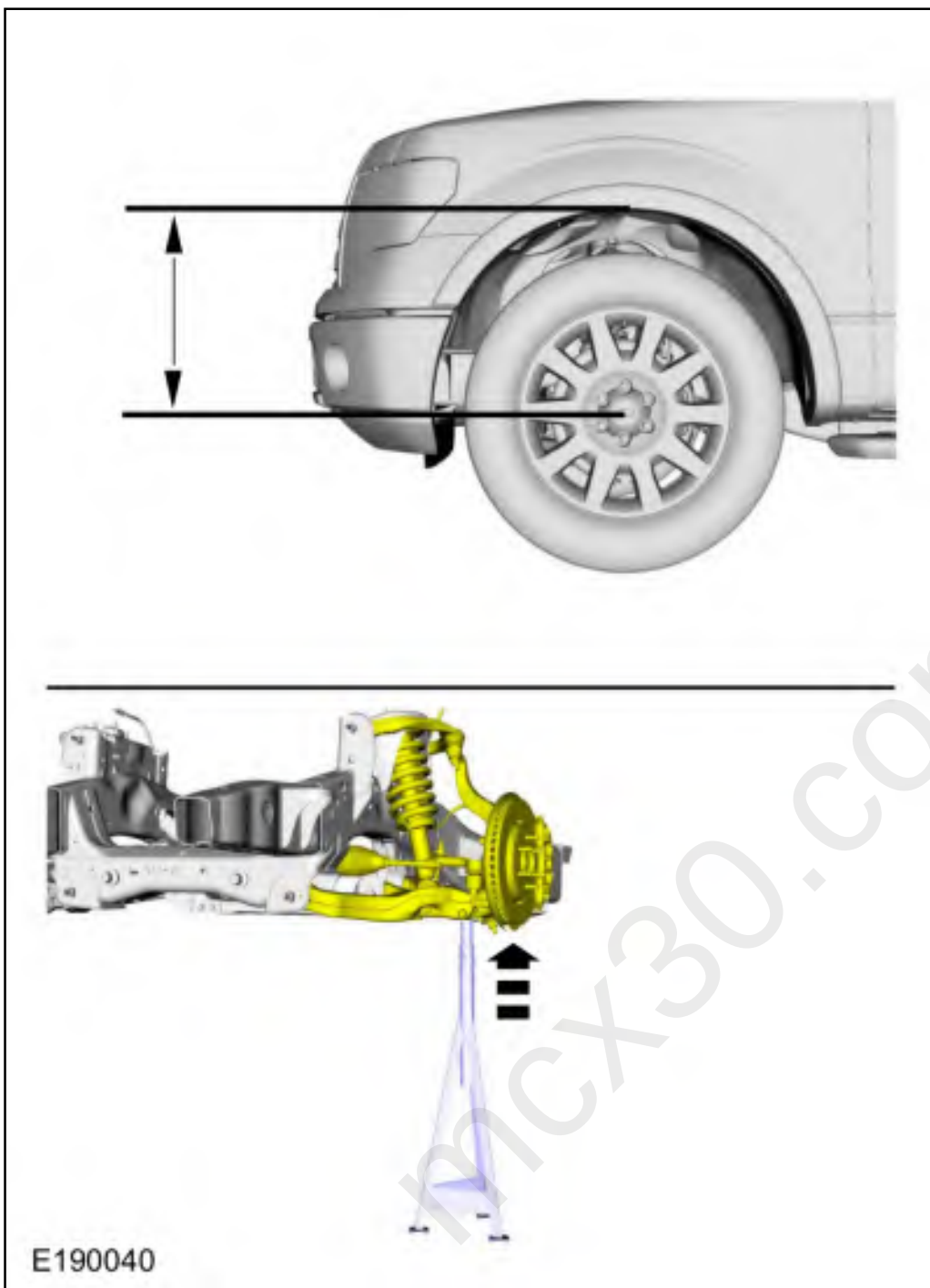
5. Install the front wheel bearing and wheel hub.
Refer to: [Front Wheel Bearing and Wheel Hub](#) (204-01B Front Suspension - 4WD, Removal and Installation).
6. Install the new upper ball joint nut.
Torque: 46 lb.ft (63 Nm)



7. Position the tie rod end and install the new tie rod end nut.
Torque: 85 lb.ft (115 Nm)

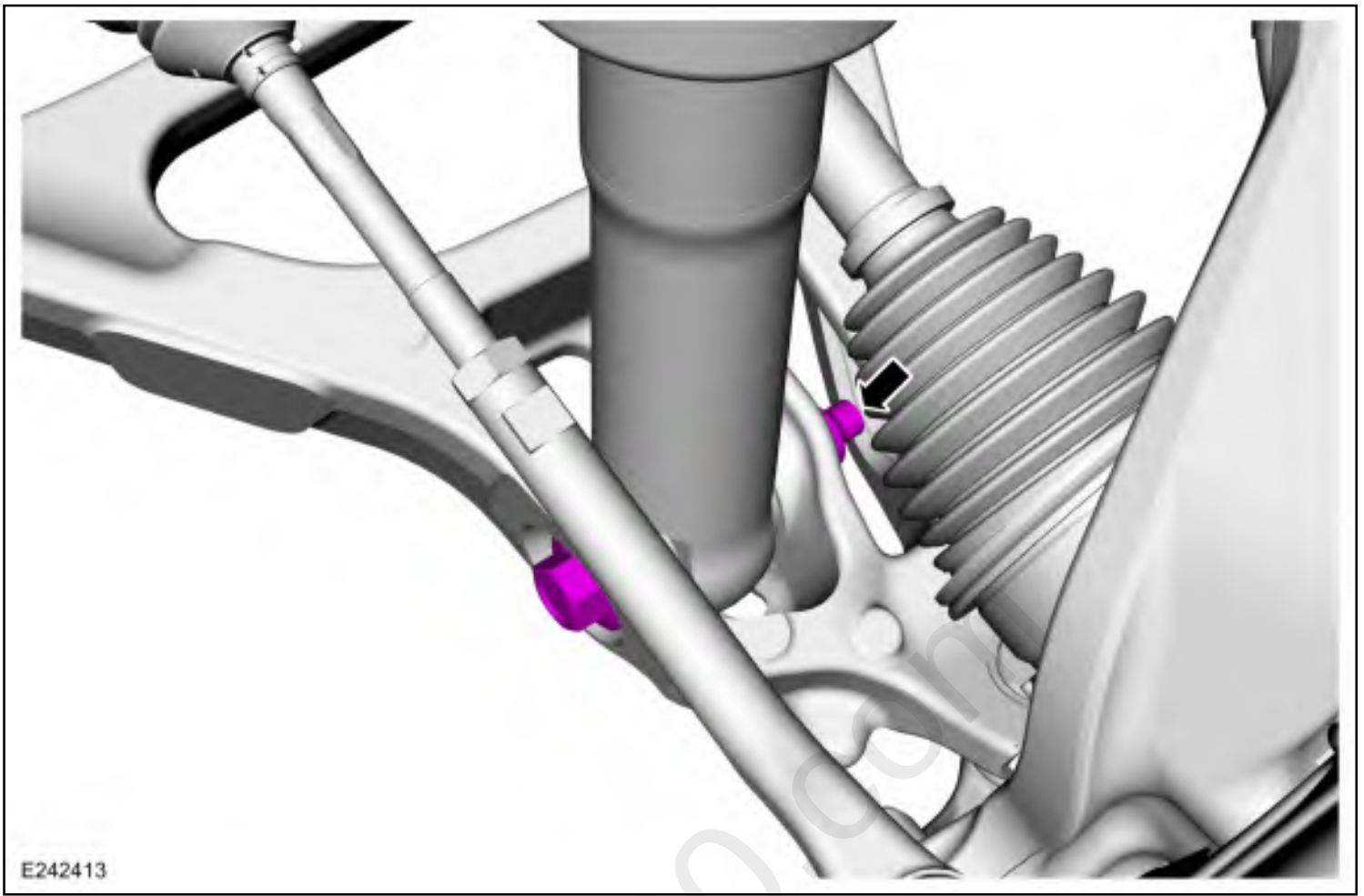


8. Use a suitable jack to raise the suspension until the distance between the center of the hub and the lip of the fender is equal to the measurement taken during removal (curb height).
Use the General Equipment: Vehicle/Axle Stands



9. **NOTICE:** Tighten the lower shock nut and bolt with the weight of the vehicle resting on the wheel and tire assemblies or incorrect clamp load and bushing damage may occur.

Tighten the new lower shock absorber nut and bolt.
Torque: 406 lb.ft (550 Nm)



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