Spring

Special Tool(s) / General Equipment

Hydraulic Press
Vehicle/Axle Stands
Vise

Removal

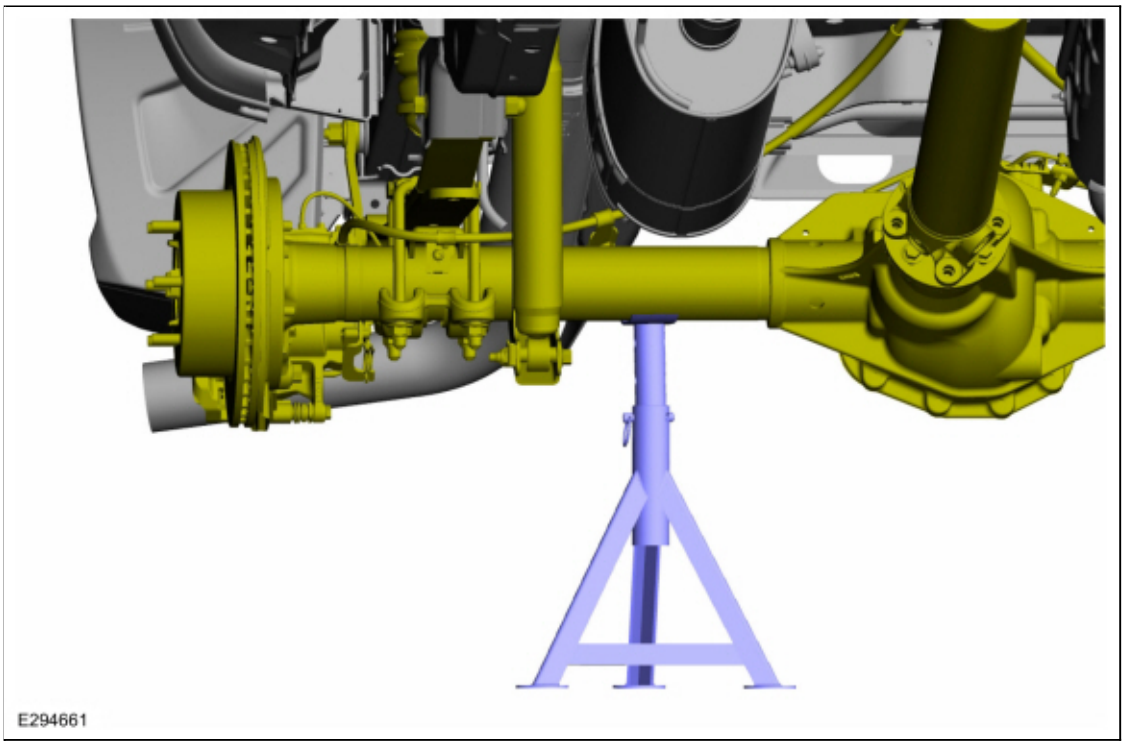
WARNING: Do not apply heat or flame to the shock absorber or strut tube. The shock absorber and t tube are gas pressurized and could explode if heated. Failure to follow this instruction may result in serious personal injury.

WARNING: Keep all body parts clear of shock absorbers or strut rods. Shock absorbers or struts can nd unassisted. Failure to follow this instruction may result in serious personal injury.

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.

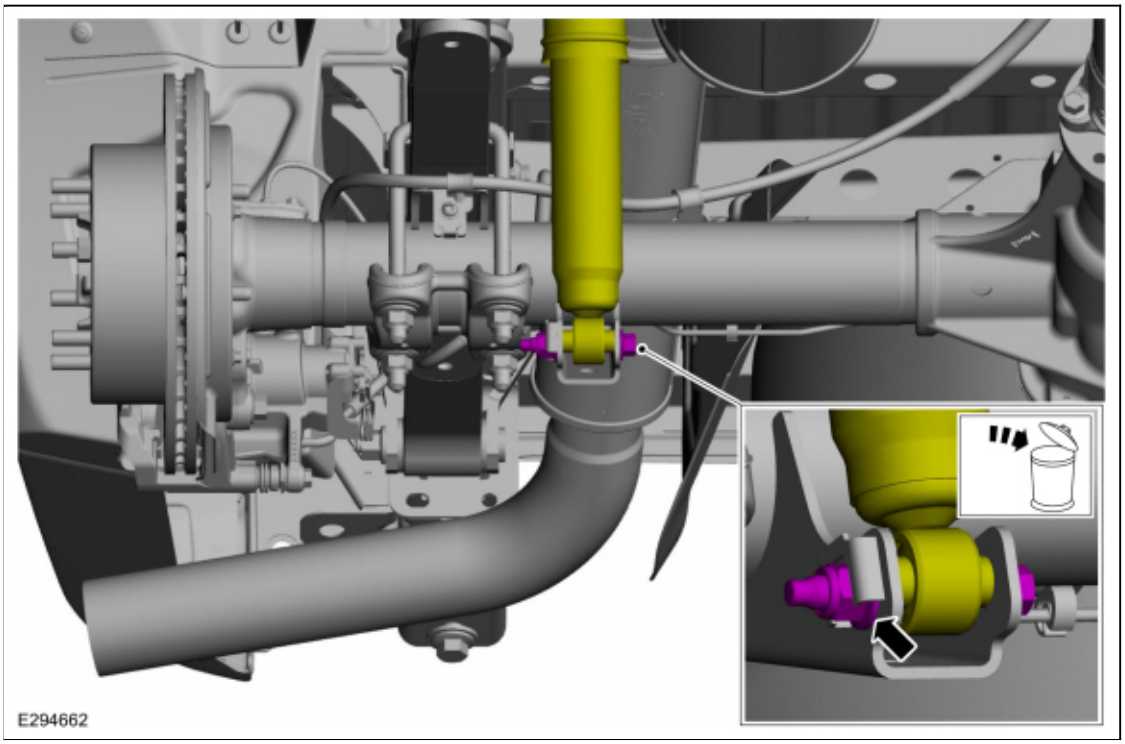
1. Remove the wheel and tire.
   Refer to: Wheel and Tire (204-04A Wheels and Tires, Removal and Installation).

2. Support the rear axle assembly.
   Use the General Equipment: Vehicle/Axle Stands



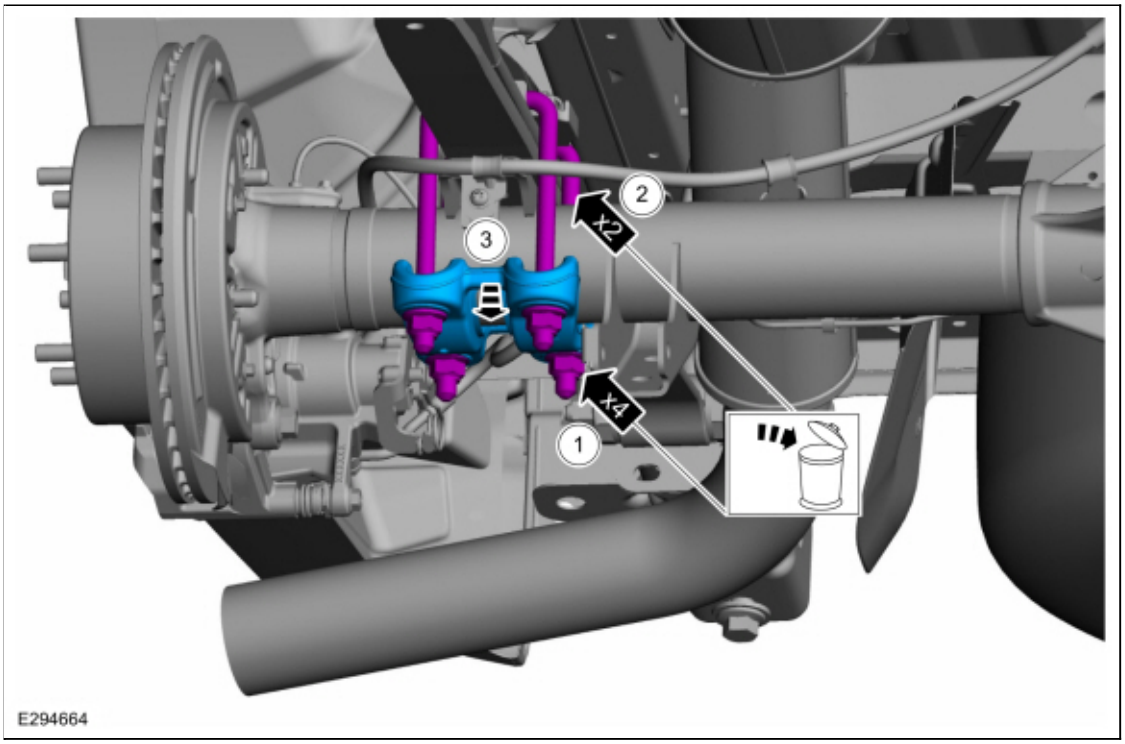
3.

1. Remove and discard the rear shock absorber lower nut and bolt.

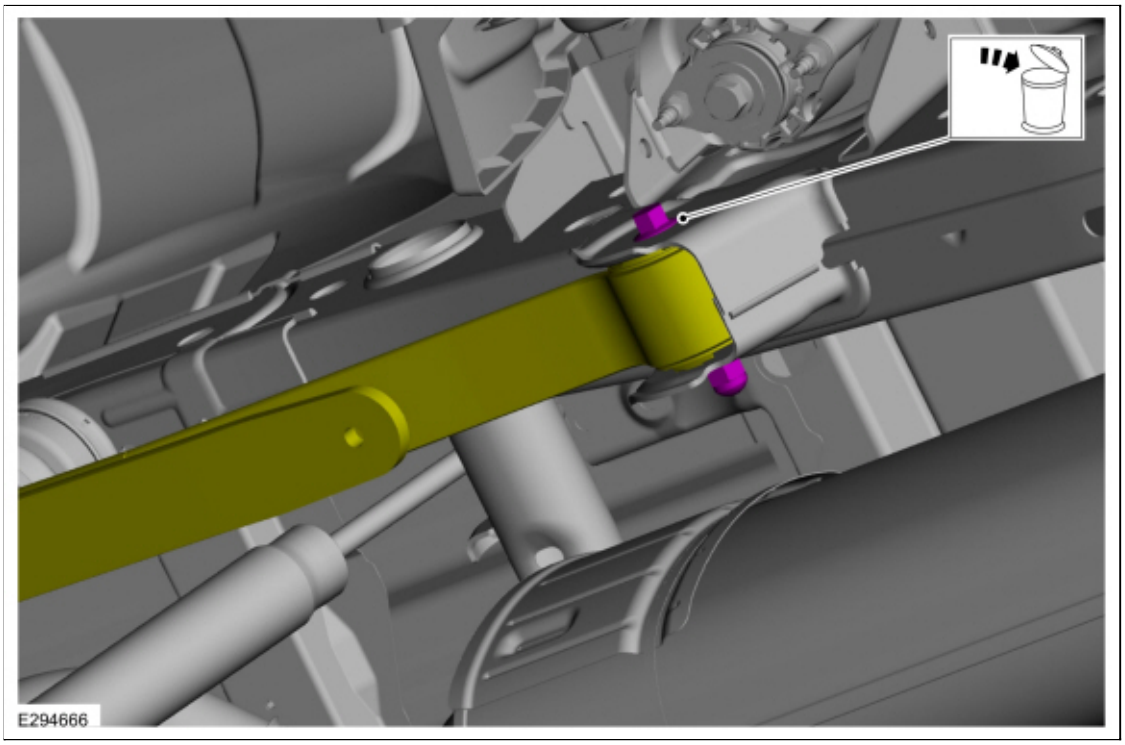


4.

1. Remove and discard the U-bolt nuts.
2. Remove and discard the U-bolts.
3. Remove the spring clamp.



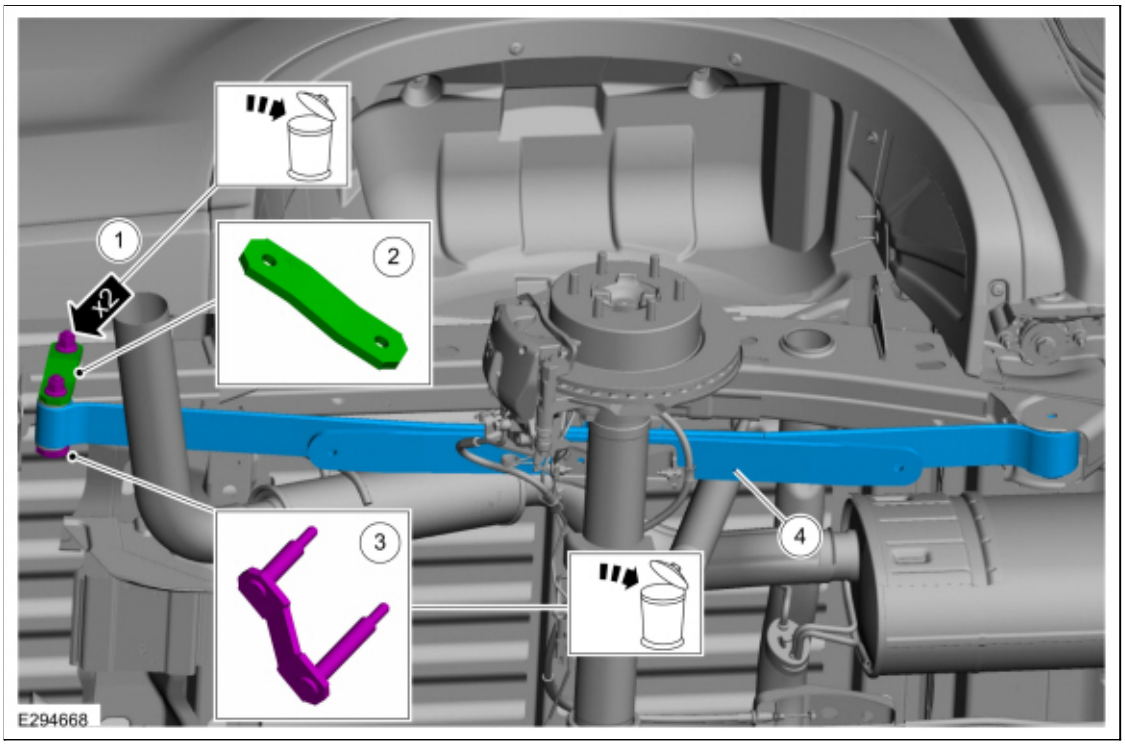
5. Remove and discard the spring-to-frame nut and bolt.



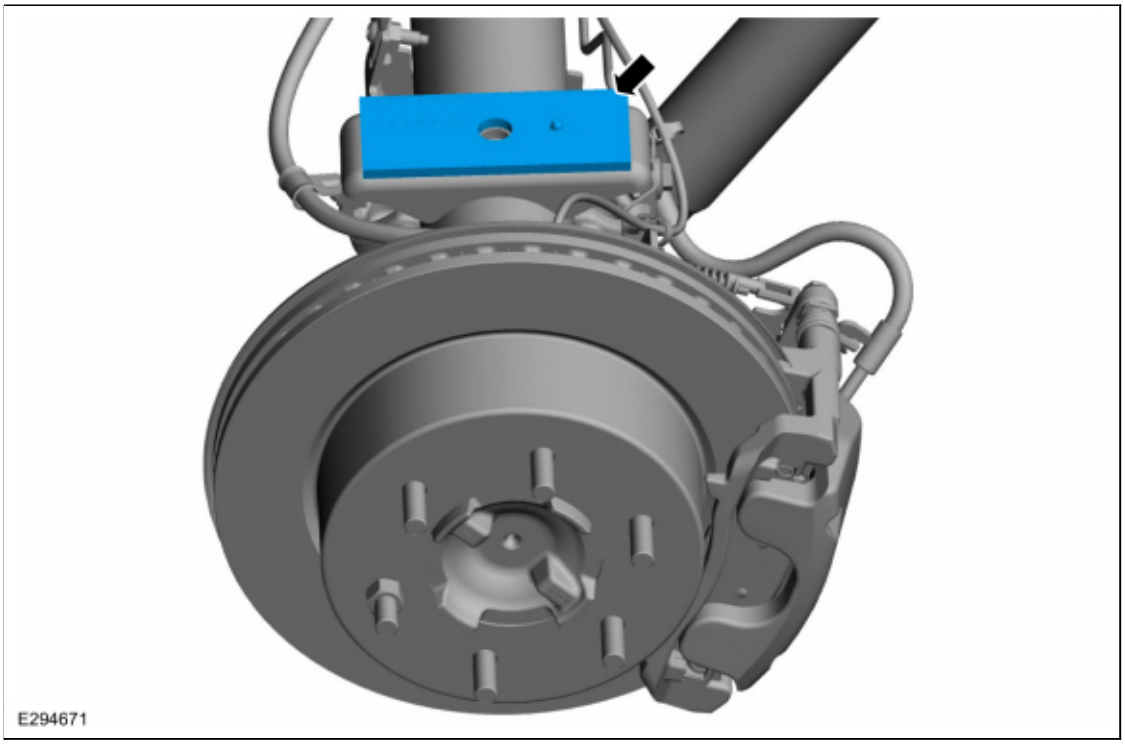
6. **NOTE:** *Only lower the axle enough to gain access to remove the spring.*

    1. Remove and discard the spring shackle-to-frame nuts.
    2. **NOTE:** *Note the position of the component before removal.*

Remove the shackle plate.
3. Remove and discard the shackle assembly bolt.
4. Lower the axle and Remove the spring assembly.
Use the General Equipment: Vehicle/Axle Stands



7. Remove the spring spacer.

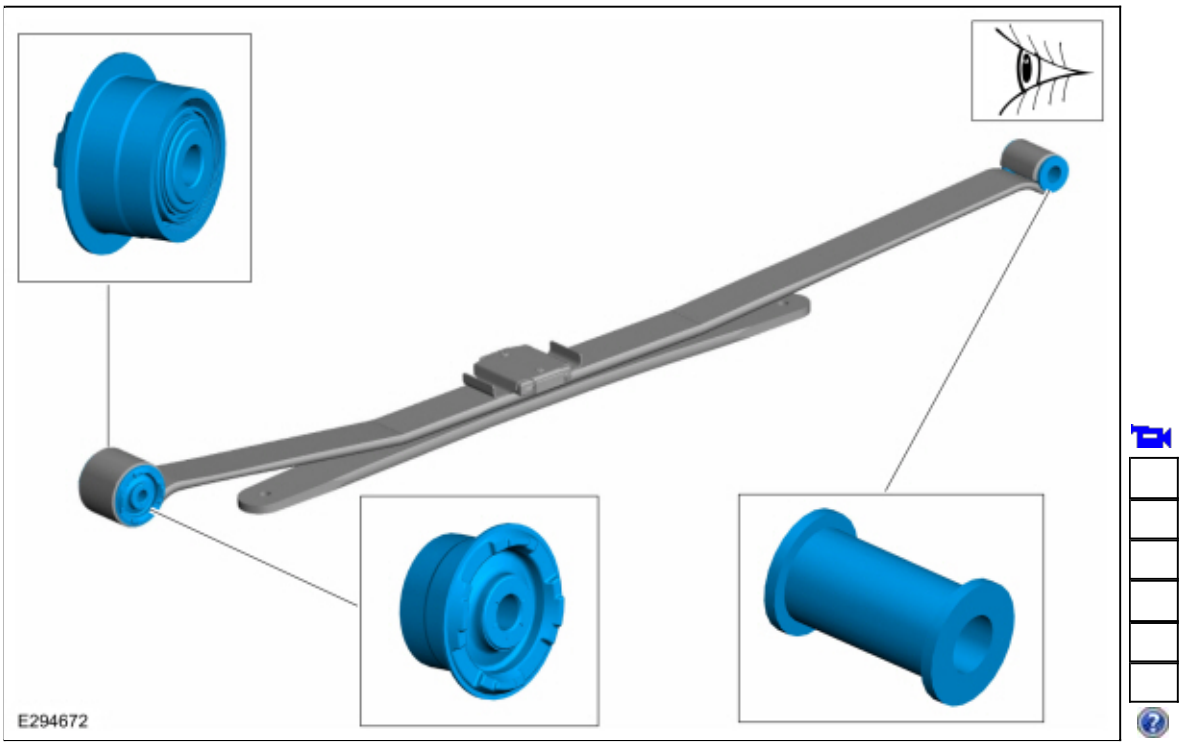


8. **NOTICE: Tighten the fasteners with the suspension loaded or with the weight of the vehicle resting on the wheels and tires, otherwise incorrect clamp load and bushing damage may occur.**

   NOTE: *Note the position of the component before removal.*

   NOTE: *This step is only necessary when installing a new component.*

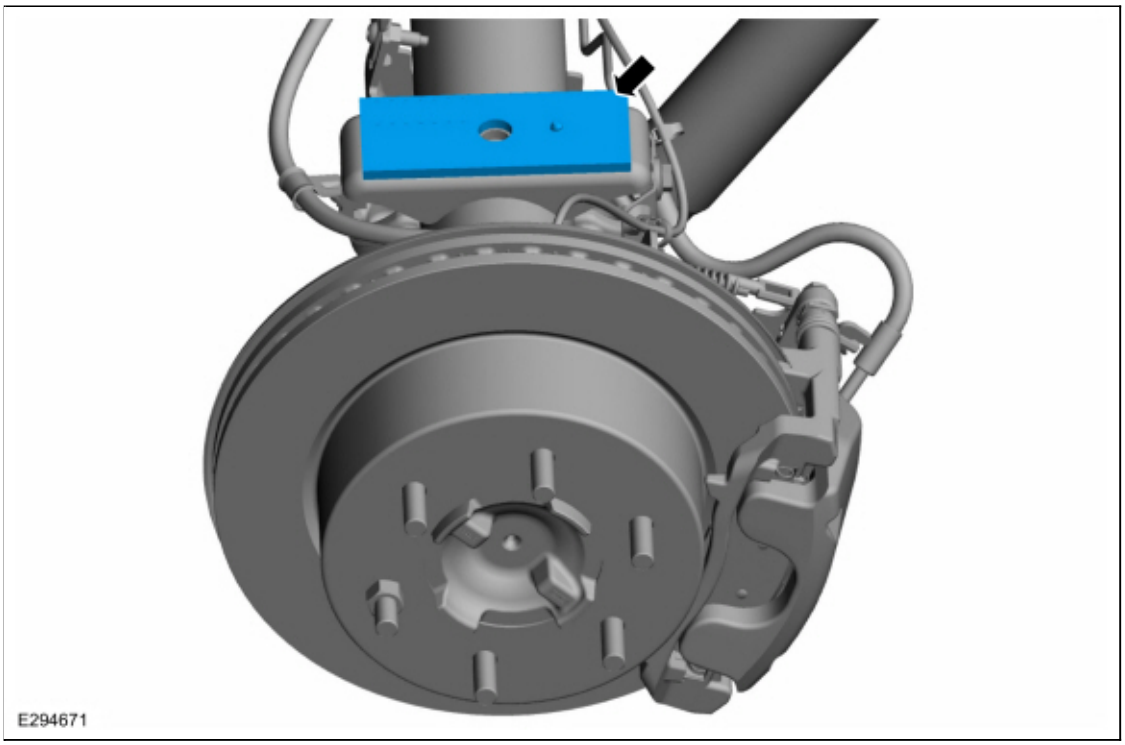
   If necessary.
   Check and replace the spring assembly bushings.
   Use the General Equipment: Vise
   Use the General Equipment: Hydraulic Press



Installation

1. **NOTE:** *Make sure the spring spacer is correctly seated between the axle and spring.*

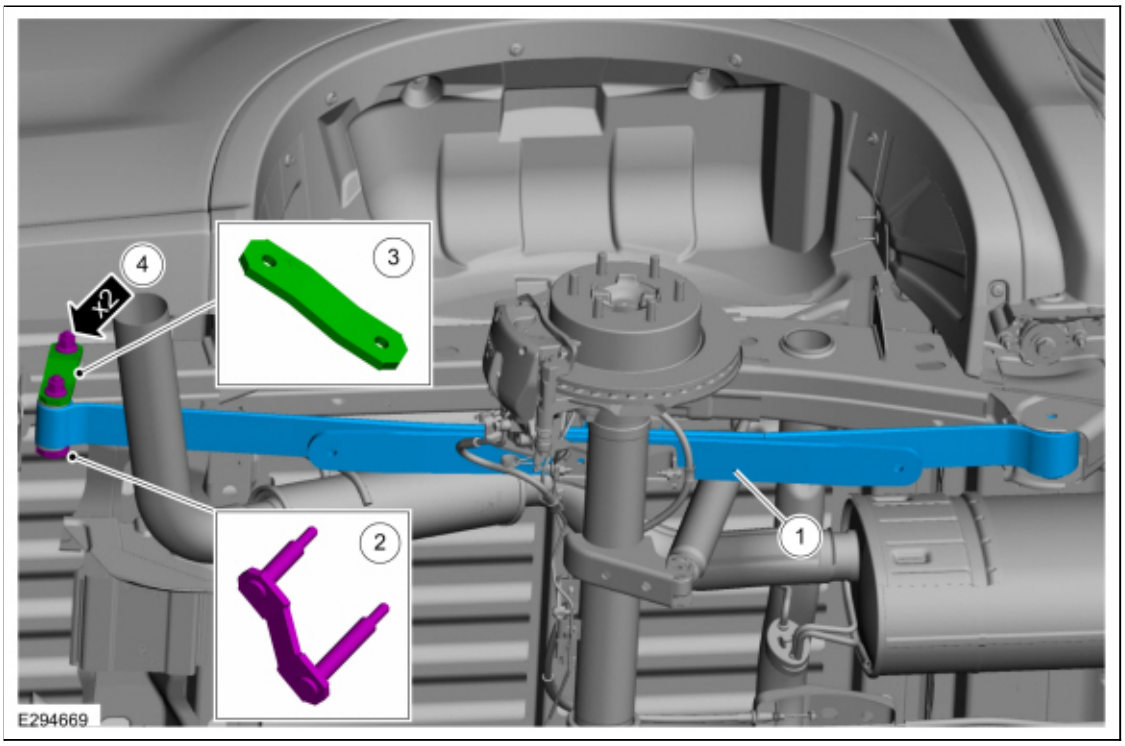
   Install the spring spacer.



2. **NOTICE: Tighten the fasteners with the suspension loaded or with the weight of the vehicle resting on the wheels and tires, otherwise incorrect clamp load and bushing damage may occur.**

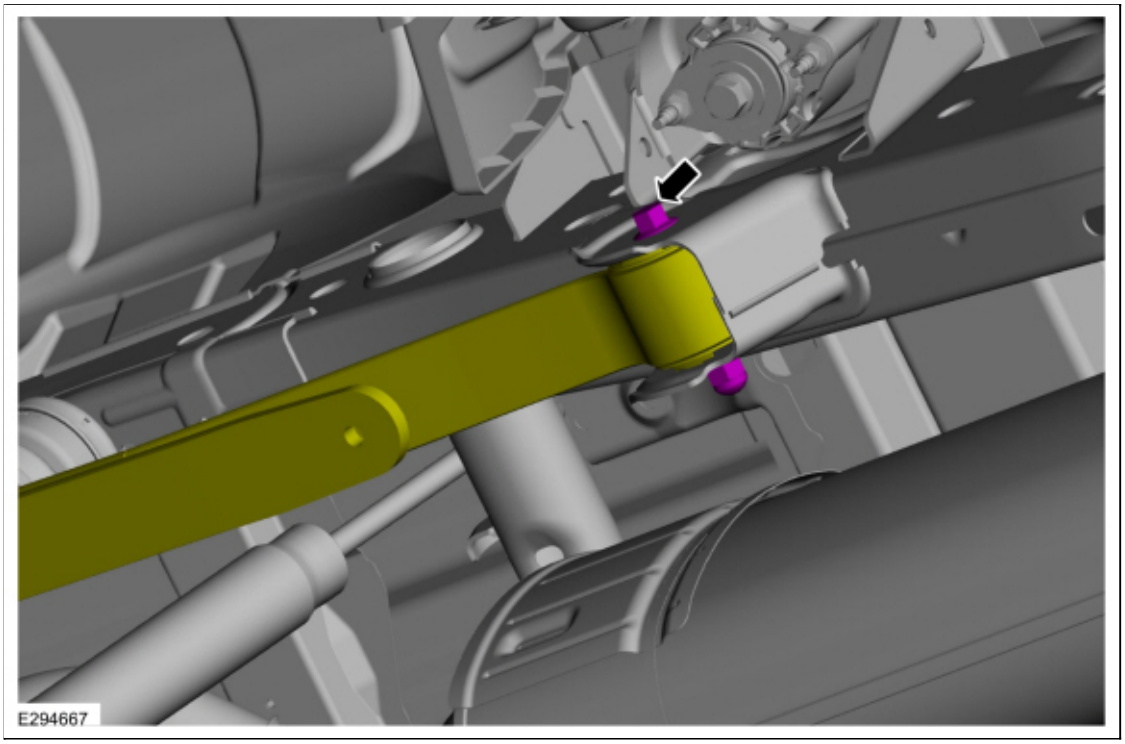
    1. Raise the axle, Install the spring assembly.
       Use the General Equipment: Vehicle/Axle Stands
    2. Install the new shackle assembly bolt.
    3. Install the spring shackle plate.
    4. **NOTE:** *Only tighten the nuts and bolts finger tight at this stage.*

       Install the new spring shackle-to-frame nuts.



3. **NOTE:** *Only tighten the nuts and bolts finger tight at this stage.*

   Install the new spring-to-frame nut and bolt.



4.

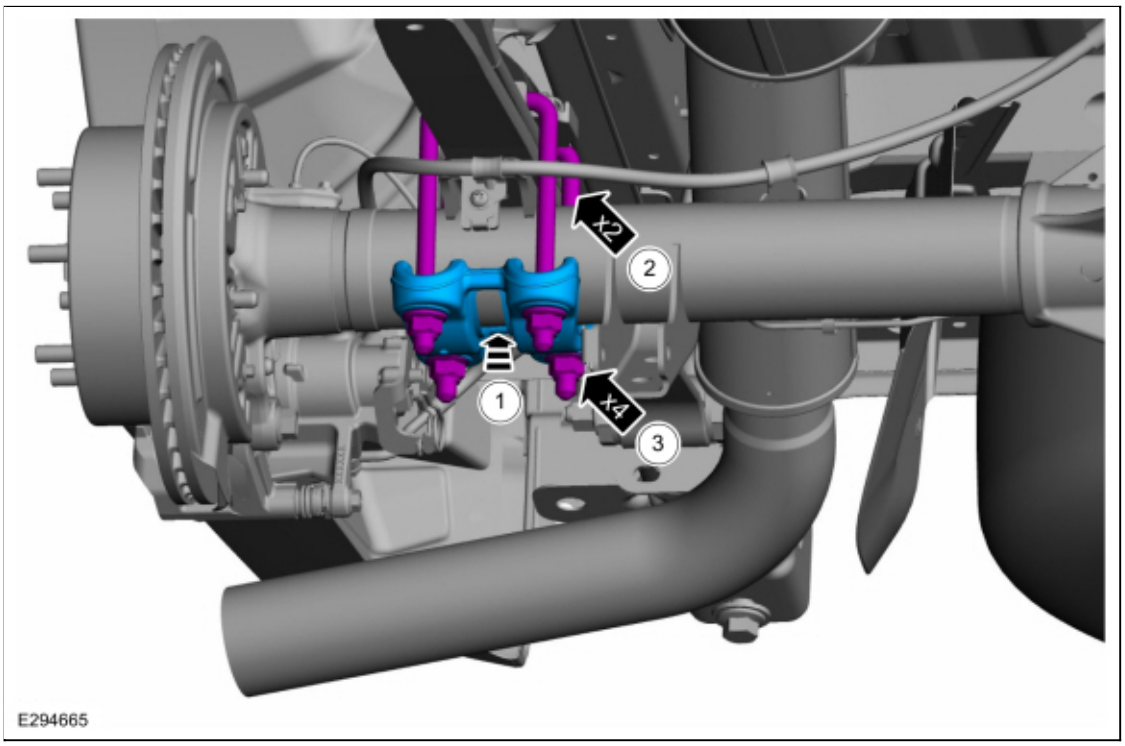
   1. **NOTE:** *Verify U-bolts are perpendicular and on center to leaf spring. Maintain equal side-to-side*

clearance to leaf spring stack when securing.

Install the spring clamp.

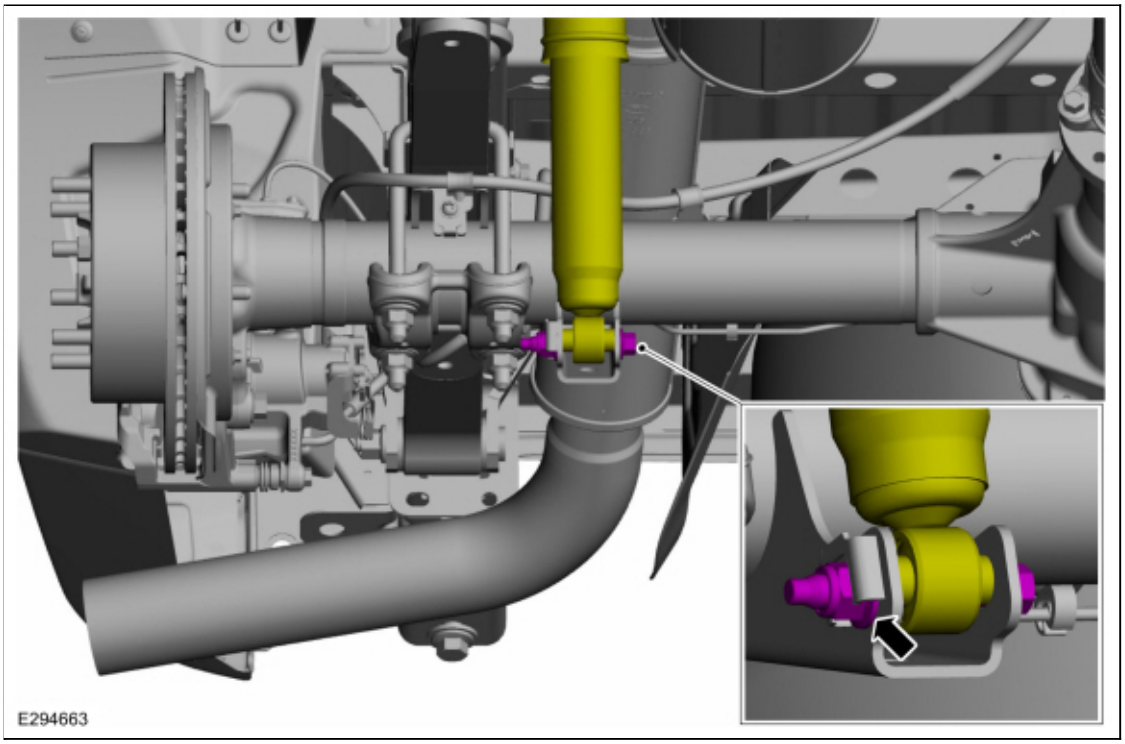
2. Install the new U-bolts.
3. **NOTE:** *Only tighten the nuts and bolts finger tight at this stage.*

Install the new U-bolt nuts.



5. **NOTE:** *Only tighten the nuts and bolts finger tight at this stage.*

Install the new rear shock absorber lower nut and bolt.

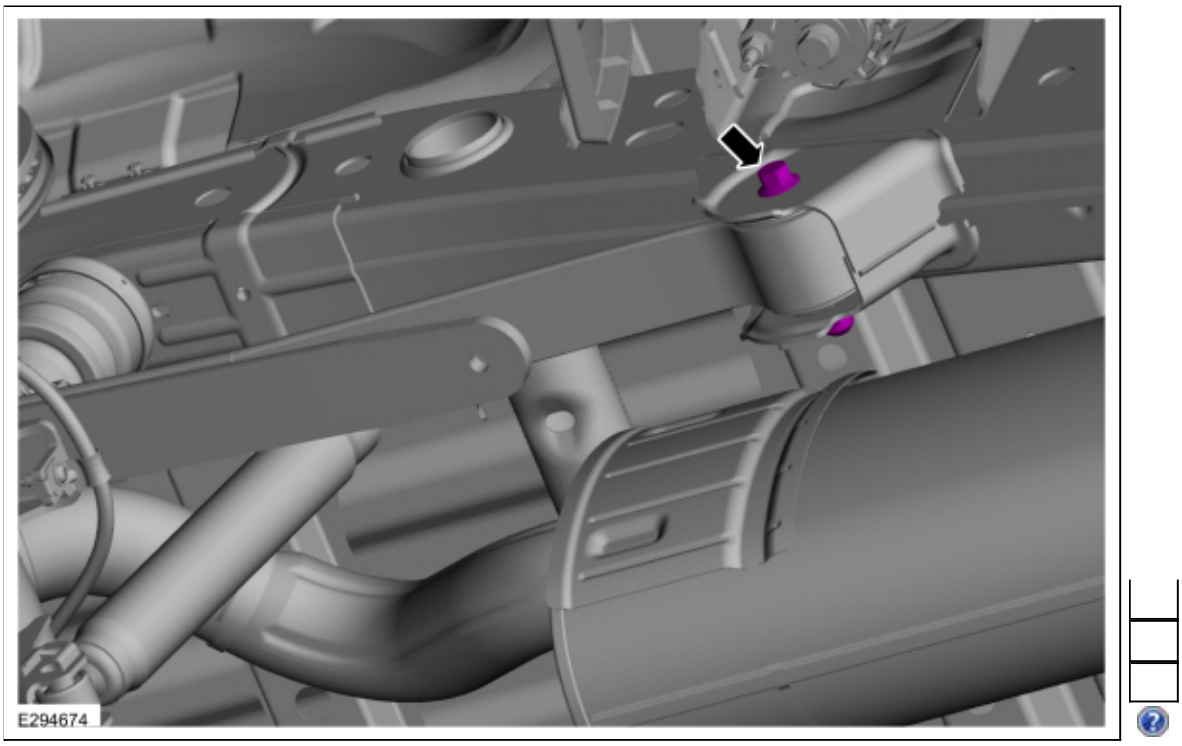


6. Install the wheel and tire.
   Refer to: Wheel and Tire (204-04A Wheels and Tires, Removal and Installation).

7. Lower the vehicle until the weight of the vehicle is resting on the wheels and tires (curb height).

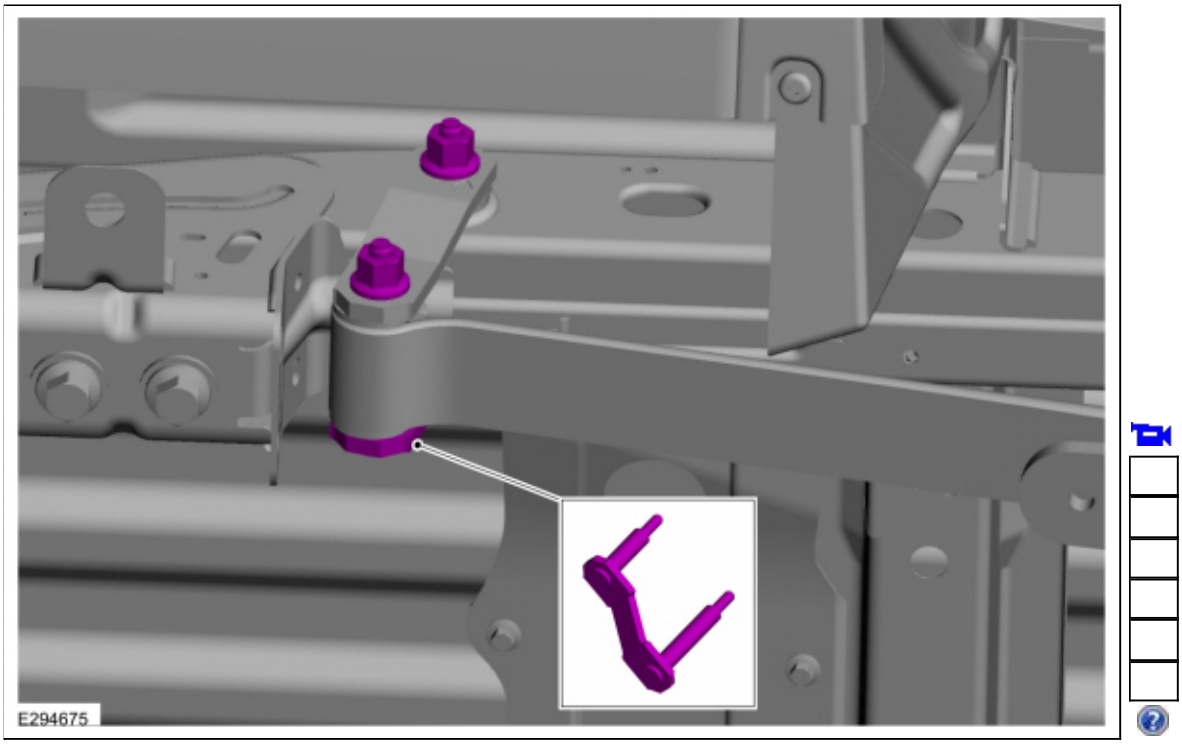
8. **NOTICE: Tighten the suspension bushing fasteners with the suspension loaded or with the weight of the vehicle resting on the wheels and tires, otherwise incorrect clamp load and bushing damage may occur.**

   Tighten the new spring-to-frame nut and bolt.
   Torque: 119 lb.ft (162 Nm)

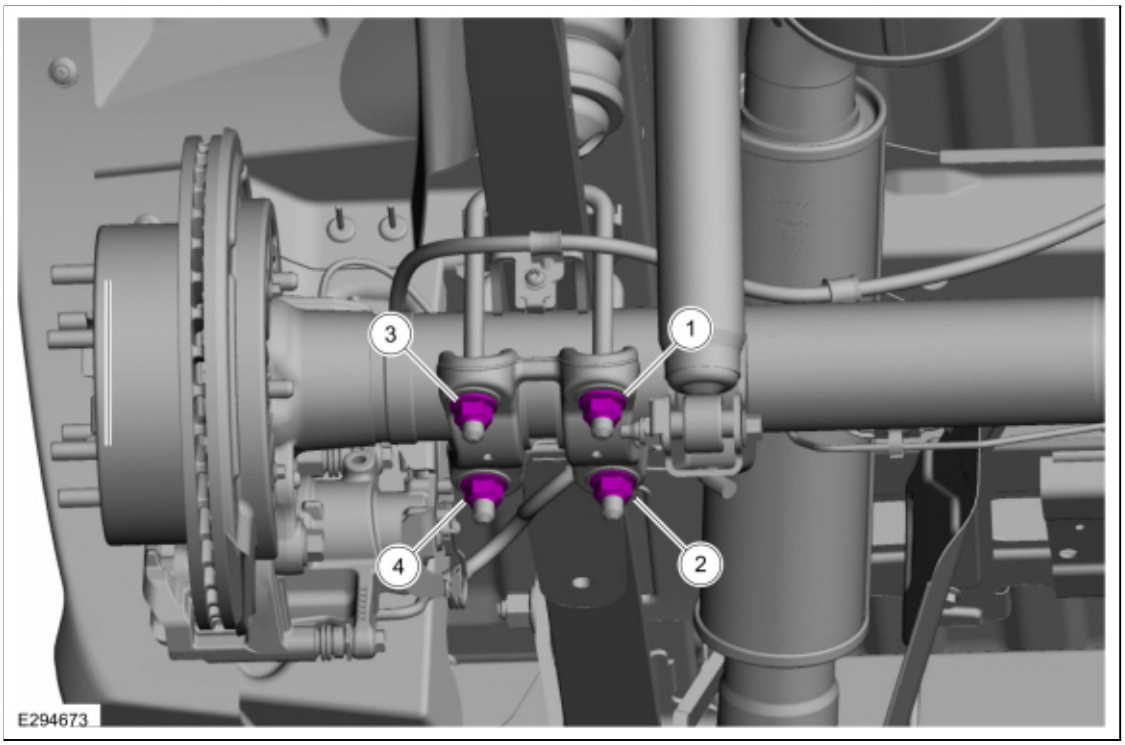


9. **NOTICE: Tighten the suspension bushing fasteners with the suspension loaded or with the weight of the vehicle resting on the wheels and tires, otherwise incorrect clamp load and bushing damage may occur.**

   Tighten the new shackle-to-spring nuts.
   Torque: 76 lb.ft (103 Nm)



10. Tighten the U-bolt nuts in a cross pattern in 4 stages.
    Torque:
    Stage 1: 26 lb.ft (35 Nm)
    Stage 2: 52 lb.ft (70 Nm)
    Stage 3: 74 lb.ft (100 Nm)
    Stage 4: 98 lb.ft (133 Nm)



11. Tighten the new rear shock absorber lower nut and bolt.
    Torque: 52 lb.ft (70 Nm)