

Spring

Special Tool(s) / General Equipment

Transmission Jack

Vehicle/Axle Stands

Removal

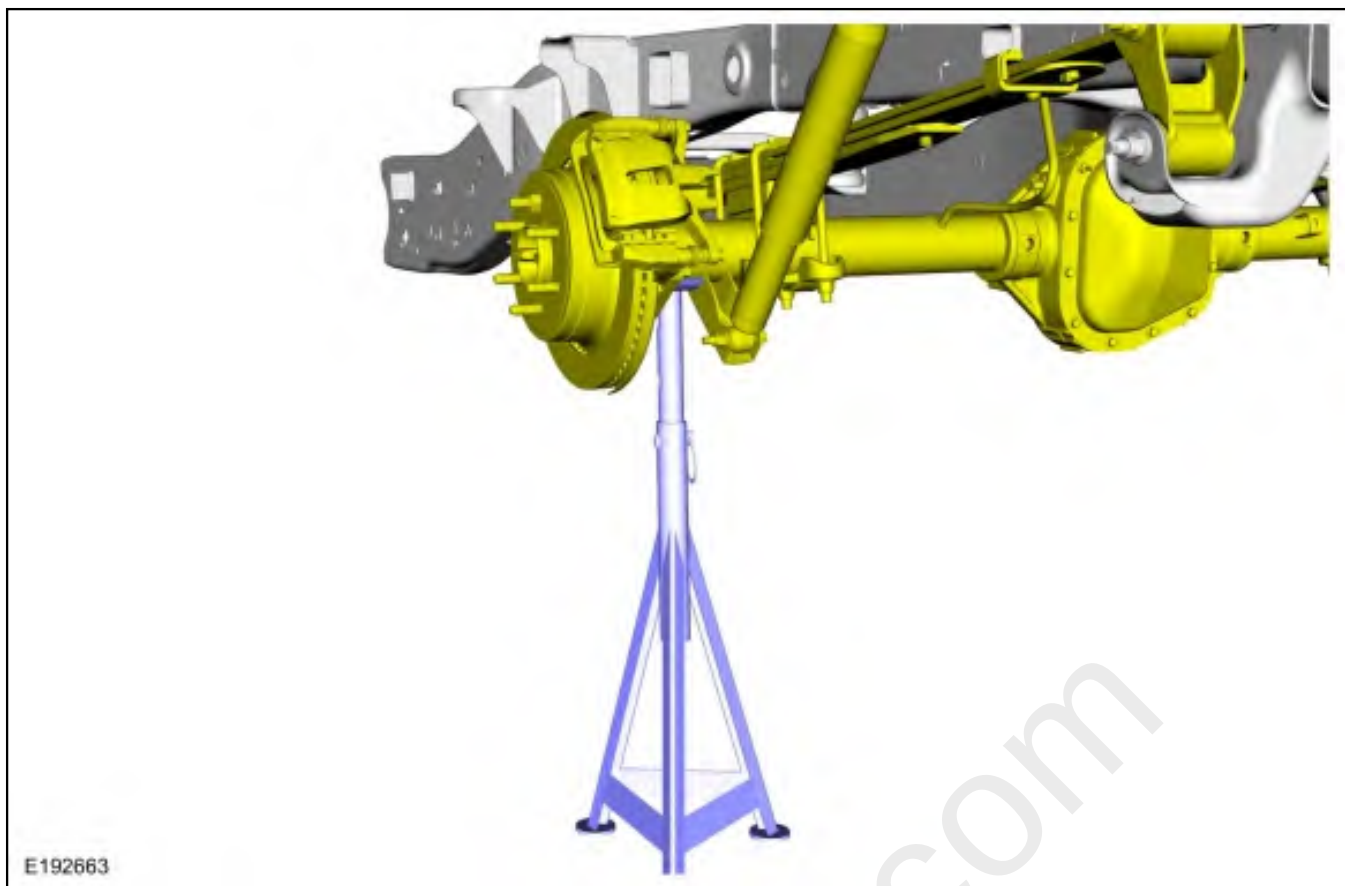
 **WARNING:** Do not apply heat or flame to the shock absorber or strut tube. The shock absorber and strut tube are gas pressurized and could explode if heated. Failure to follow this instruction may result in serious personal injury.

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

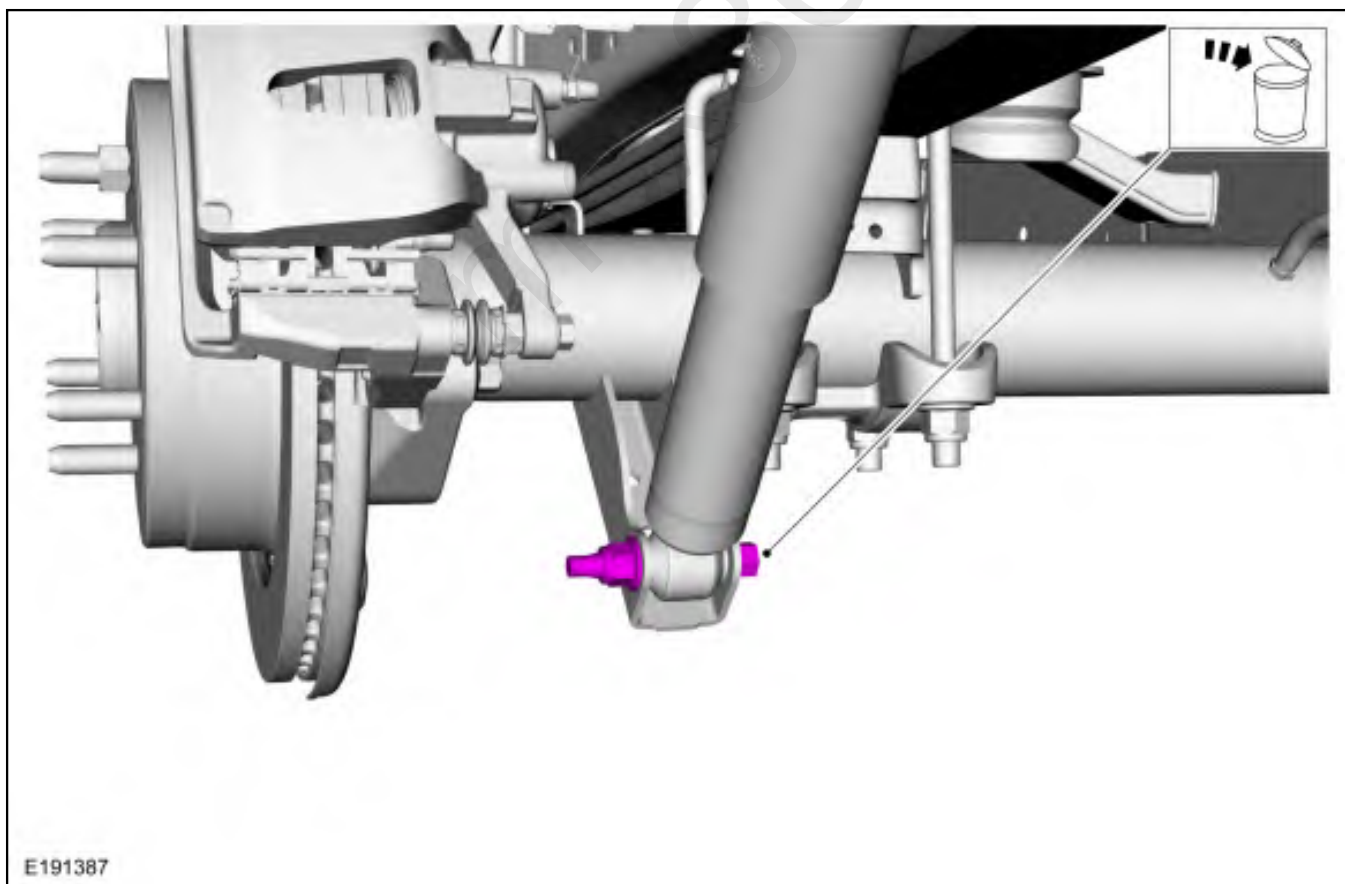
NOTICE: Suspension fasteners are critical parts that affect the performance of vital components and systems. Failure of these fasteners may result in major service expense. Use the same or equivalent parts if replacement is necessary. Do not use a replacement part of lesser quality or substitute design.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

All vehicles

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

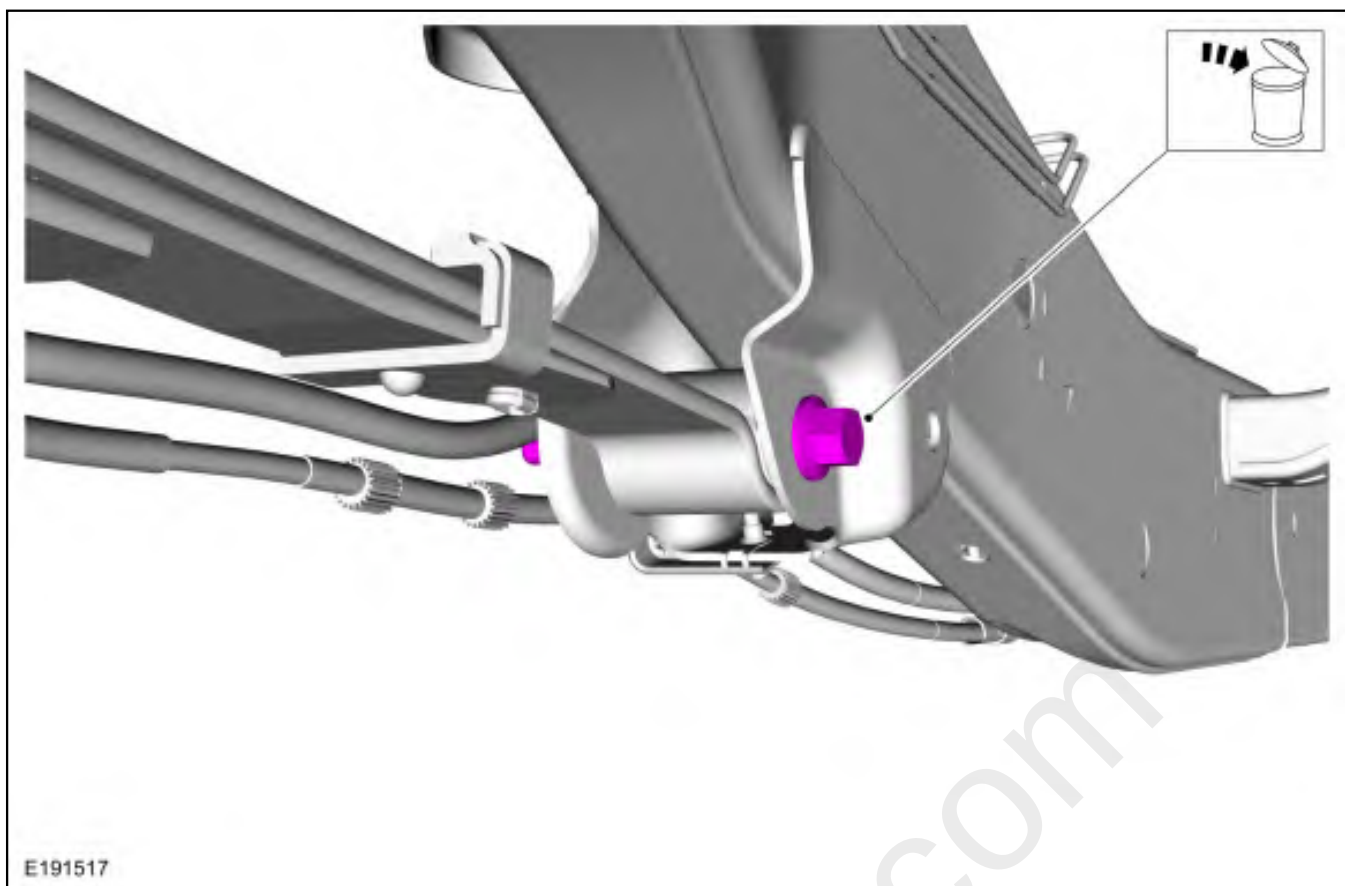


1. Remove and discard the rear shock absorber lower nut and bolt.

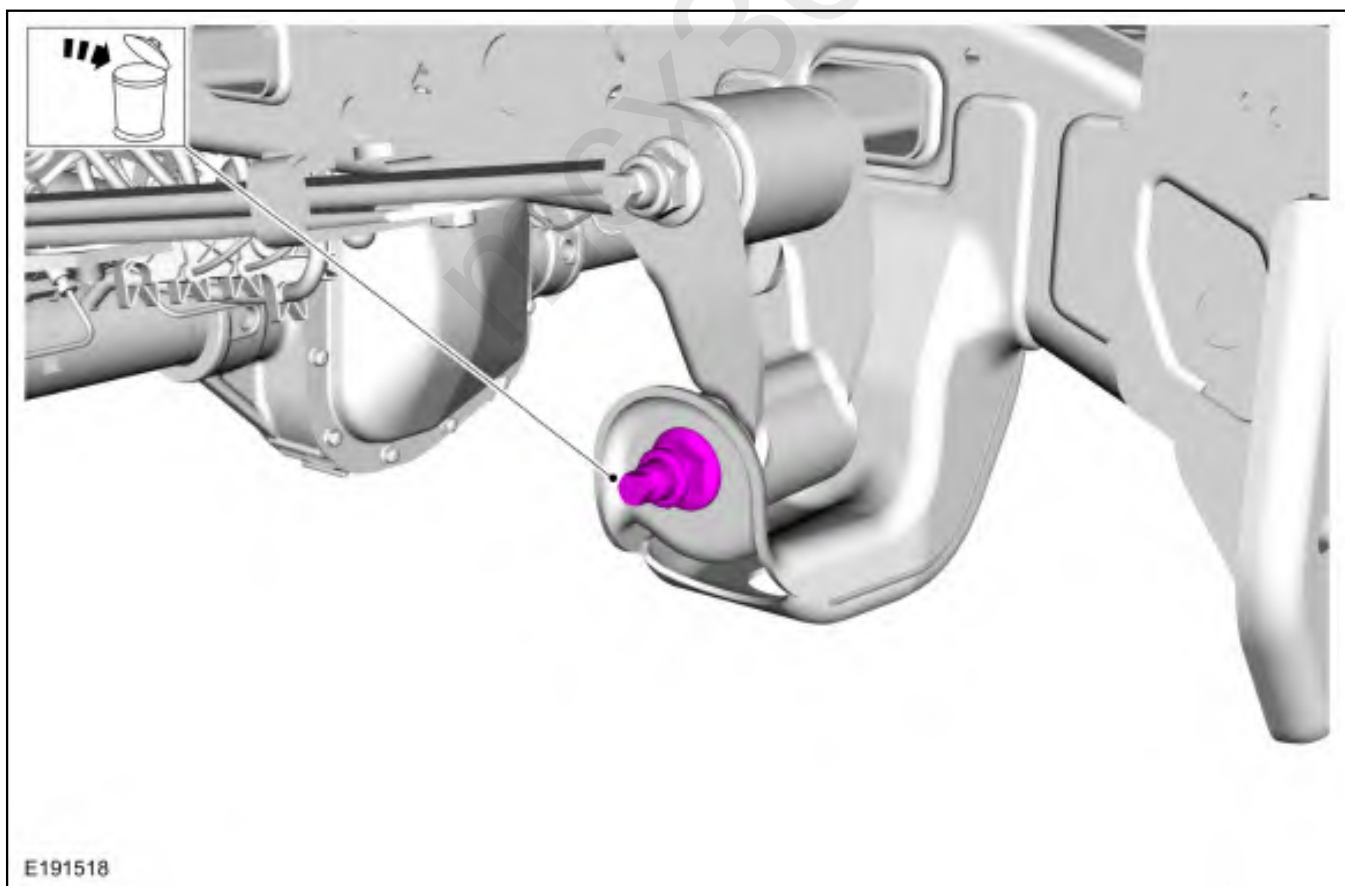


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5. For the LH spring.
Lower the fuel tank to gain access to the spring-to-frame bolt.
Refer to: [Fuel Tank](#) (310-01A Fuel Tank and Lines - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
Refer to: [Fuel Tank](#) (310-01F) .
Refer to: [Fuel Tank](#) (310-01B Fuel Tank and Lines - 3.3L Duratec - V6, Removal and Installation).
Refer to: [Fuel Tank](#) (310-01C Fuel Tank and Lines - 3.5L EcoBoost (272kW/370PS), Removal and Installation).
Refer to: [Fuel Tank](#) (310-01D Fuel Tank and Lines - 5.0L 32V Ti-VCT, Removal and Installation).
6. For the RH spring.
Remove the muffler to gain access to the spring-to-frame bolt.
Refer to: [Muffler and Tailpipe](#) (309-00A Exhaust System - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
Refer to: [Rear Muffler - Emission Requirements: Stage VI](#) (309-00F) .
Refer to: [Muffler and Tailpipe](#) (309-00B Exhaust System - 3.3L Duratec - V6, Removal and Installation).
Refer to: [Muffler and Tailpipe](#) (309-00C Exhaust System - 3.5L EcoBoost (272kW/370PS), Removal and Installation).
Refer to: [Muffler and Tailpipe](#) (309-00D Exhaust System - 5.0L 32V Ti-VCT, Removal and Installation).
7. Remove and discard the spring-to-frame nut and bolt.

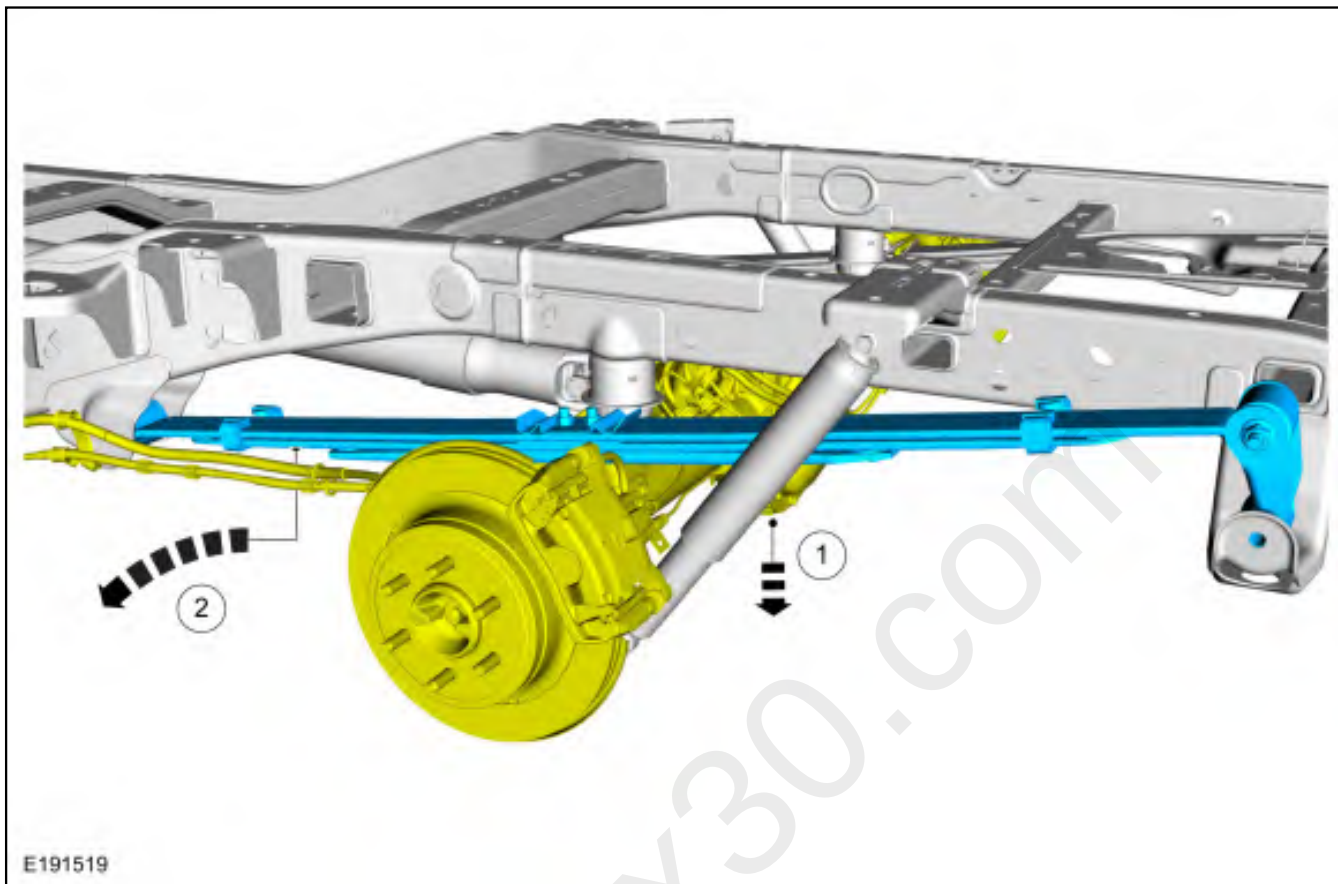


8. Remove and discard the spring shackle-to-frame nut and bolt.

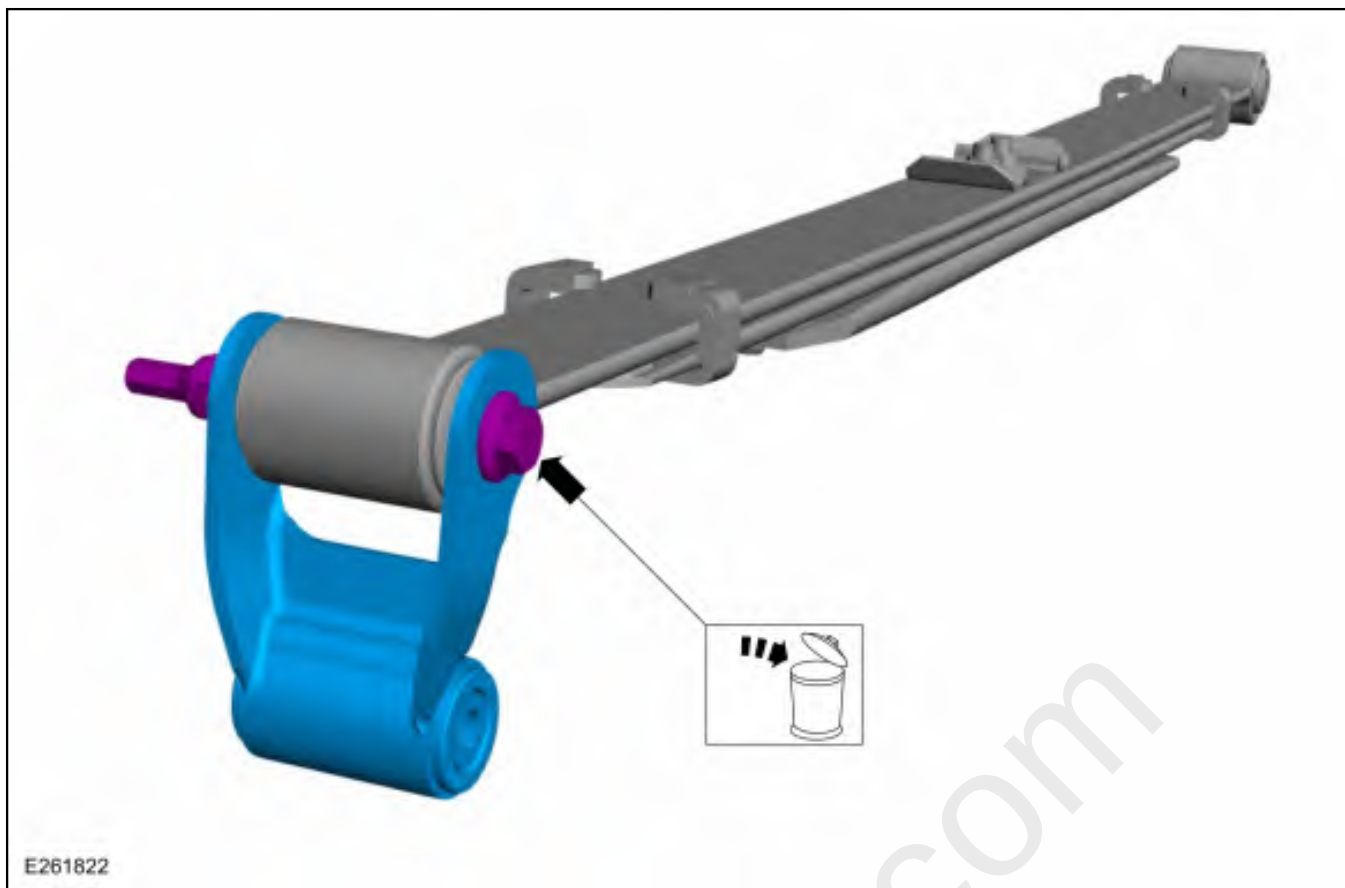


9. **NOTE:** Only lower the axle enough to gain access to remove the spring.

1. Lower the axle.
Use the General Equipment: Transmission Jack
2. Remove the spring and shackle assembly.

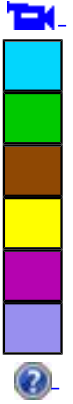
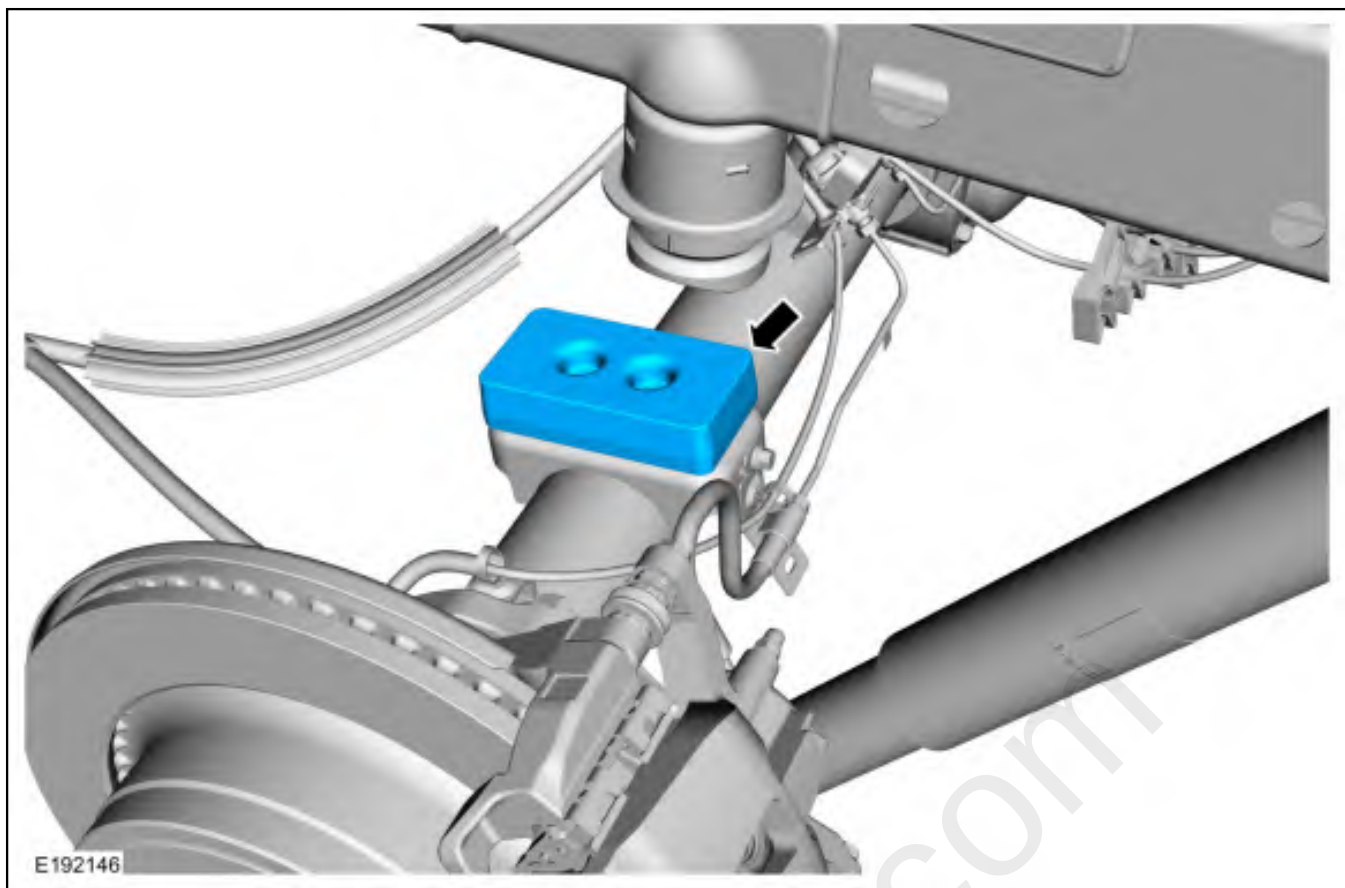


10. If necessary.
Remove and discard the spring-to-shackle bolt and nut and remove the spring shackle.



vehicles

11. Remove the 4WD spring spacer.



Installation

vehicles

1. Install on vehicles with 141 in, 145 in and 157 in wheelbase (all payload packages) and vehicles with 163 in wheelbase with heavy duty payload package only.
2. Install on vehicles with 163 in wheelbase with base payload package. The protrusion on the spring spacer should face toward the front of the vehicle.
3. Install on early build 2015 model year vehicles with 122 in wheelbase with base payload package. The protrusions on the spring spacer should face toward the rear of the vehicle.
4. Install on late build 2015 model year and newer vehicles with 122 in wheelbase with base payload package. The protrusion on the spring spacer should face toward the rear of the vehicle.

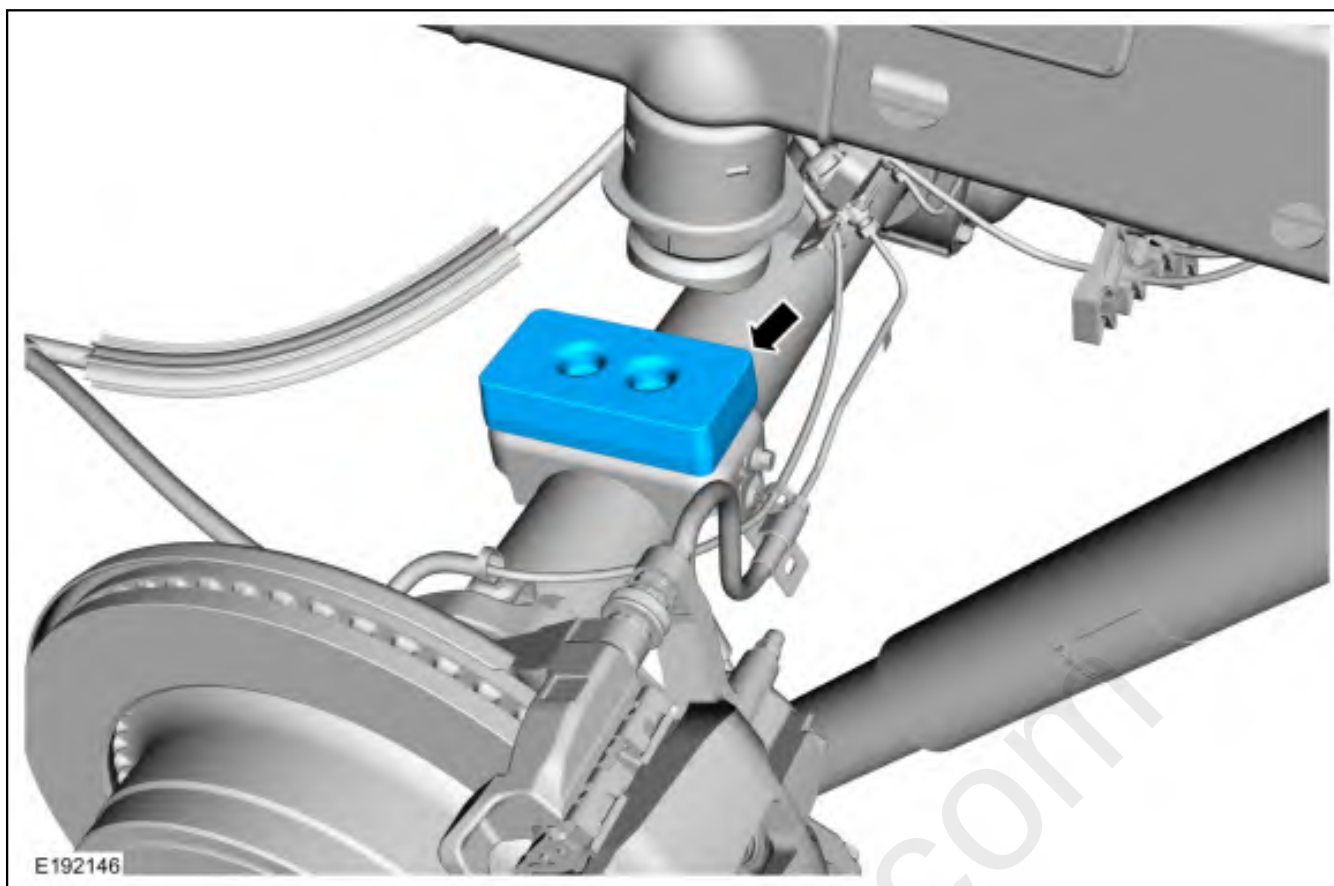


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2. **NOTE:** Make sure the spring spacer is correctly seated between the axle and spring.

Install the 4WD spring spacer.





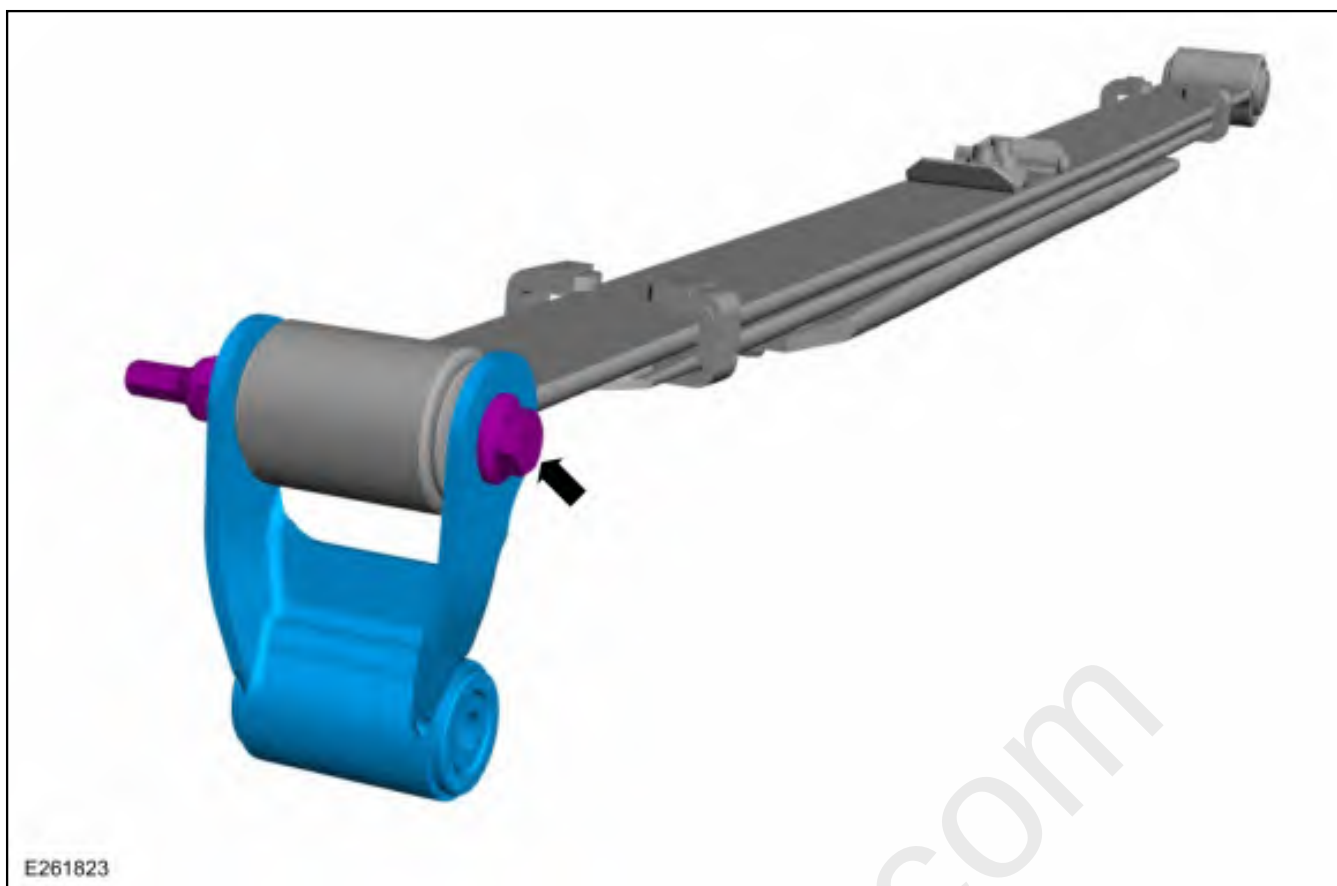
All vehicles

3. **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.

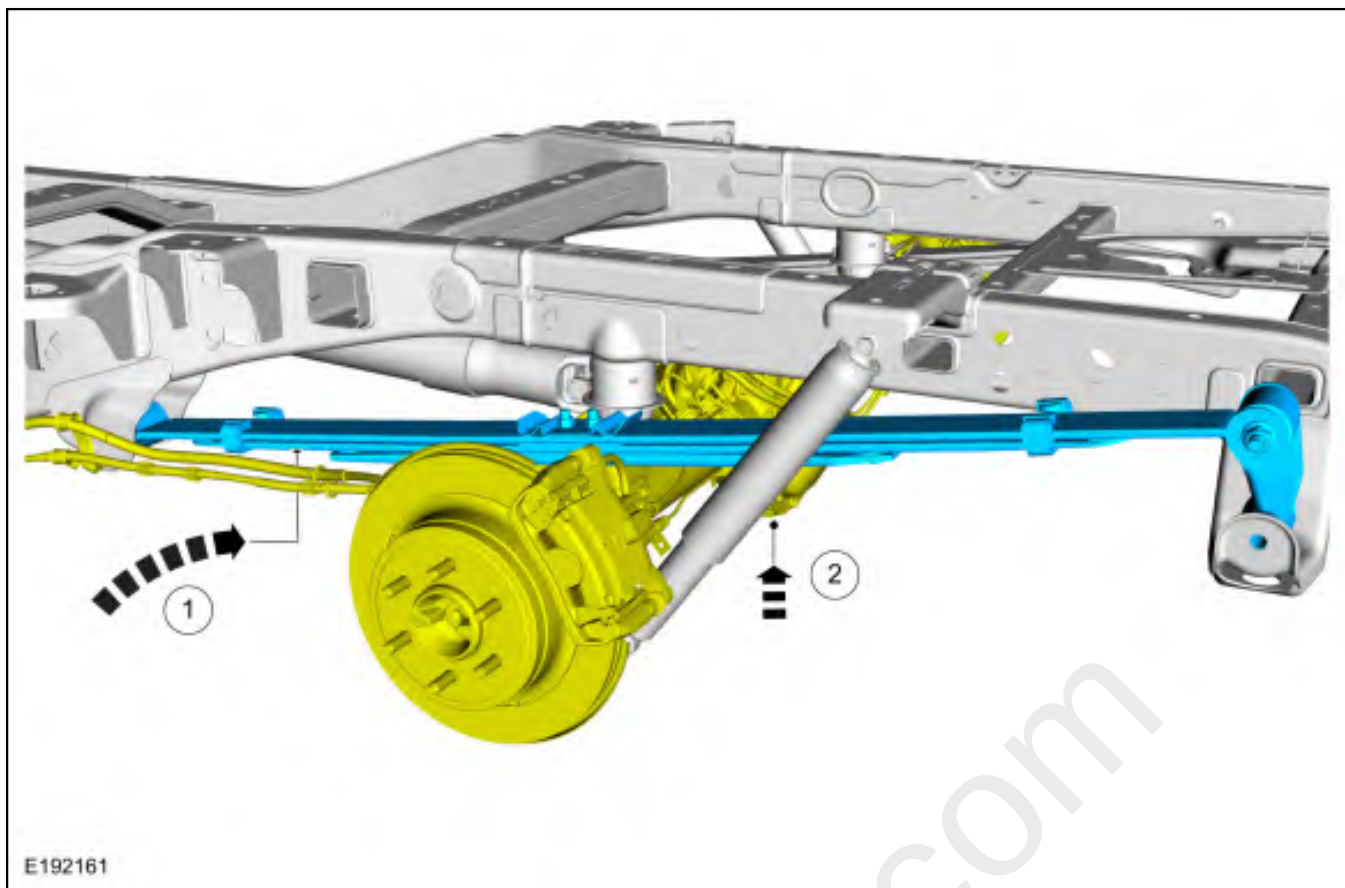
NOTE: *Only tighten the nut and bolt to snug at this stage.*

If necessary.

Install a new shackle-to-spring bolt and nut.

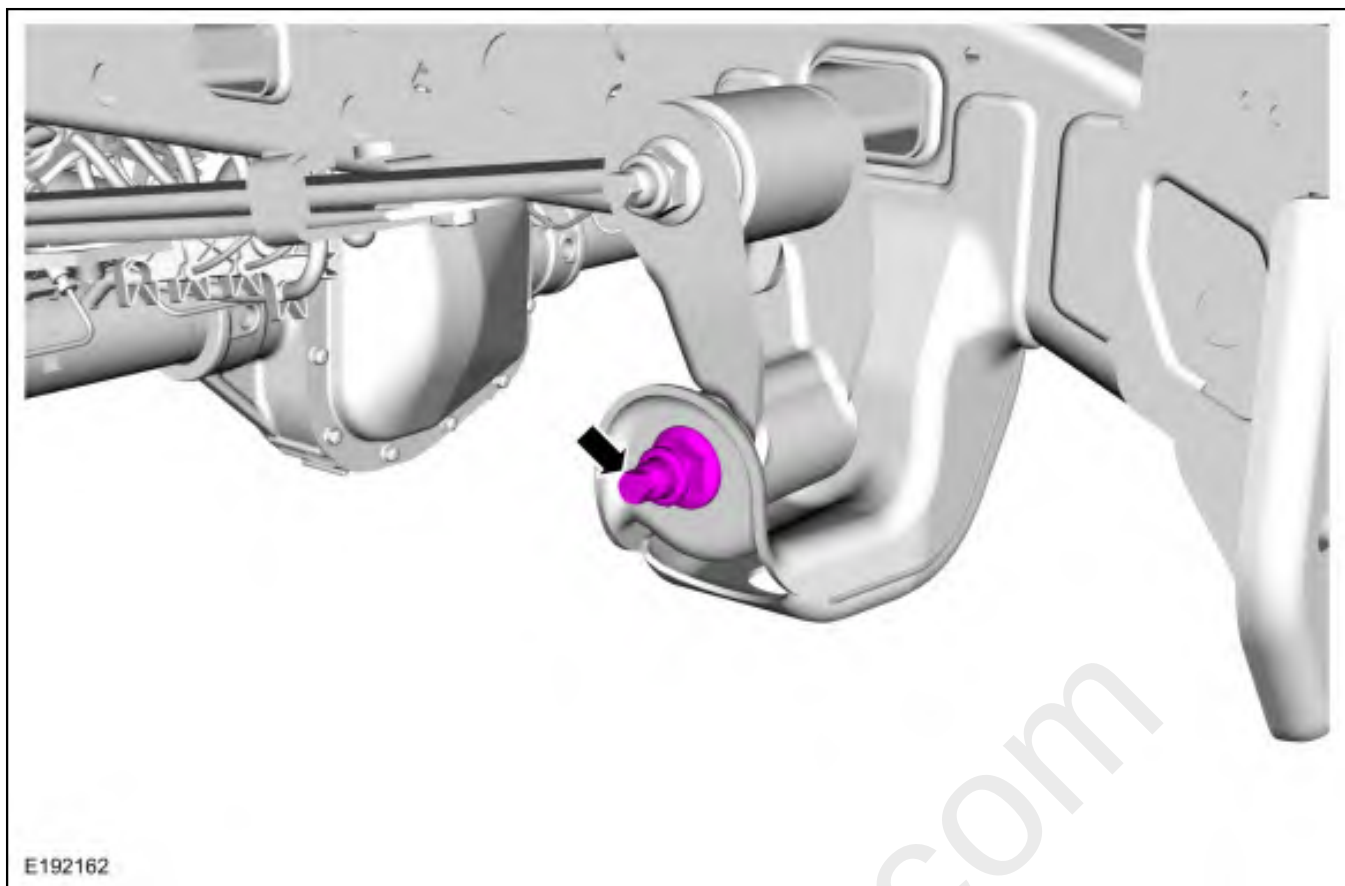


1. Position the spring and shackle assembly.
2. Raise the axle.
Use the General Equipment: Transmission Jack



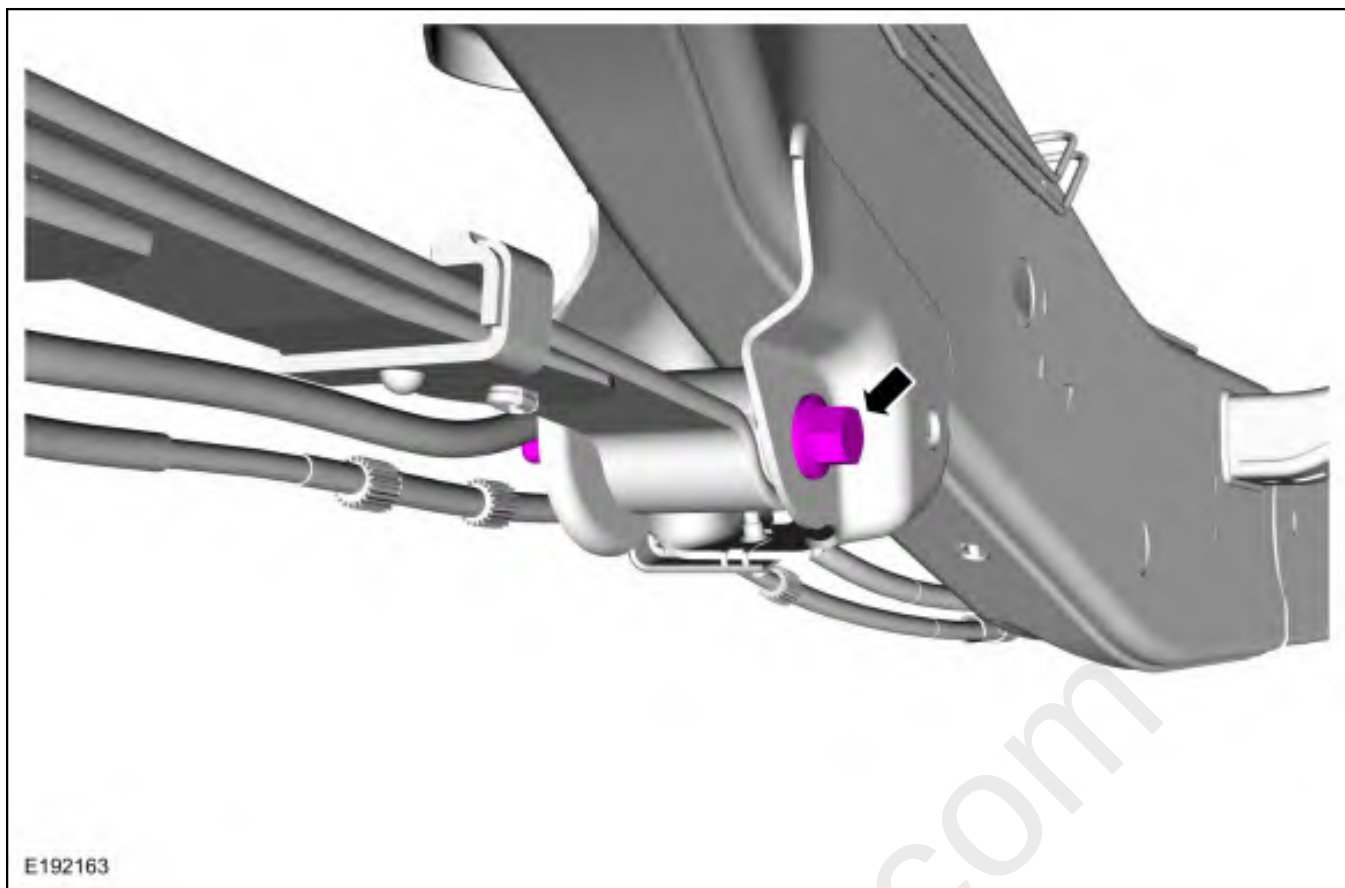
5. **NOTE:** *Only tighten the nut and bolt to snug at this stage.*

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



6. **NOTE:** *Only tighten the nut and bolt to snug at this stage.*

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

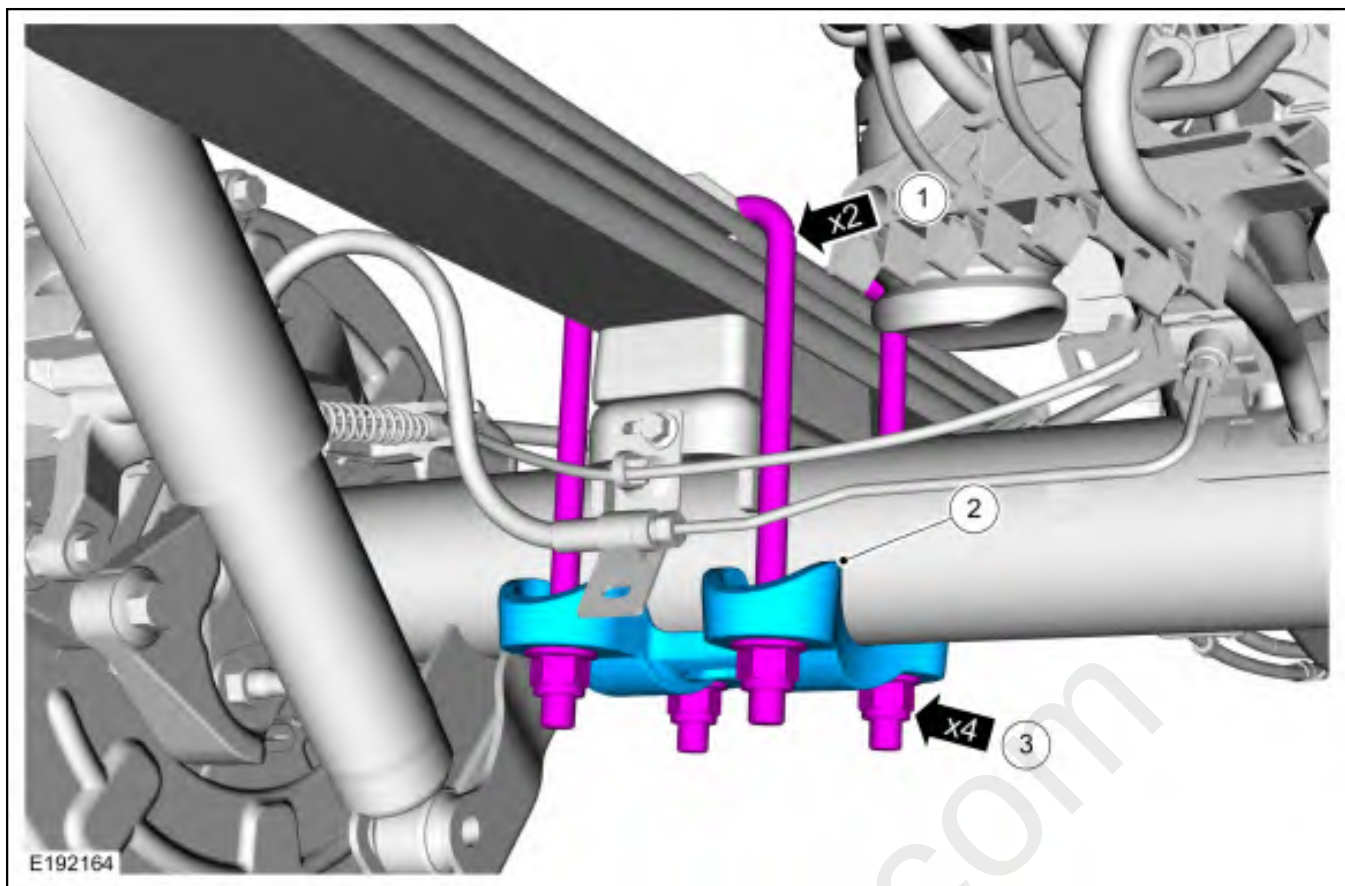


1. **NOTE:** *Verify U-bolts are perpendicular and on center to leaf spring. Maintain equal side-to-side clearance to leaf spring stack when securing.*

Install the new U-bolts.

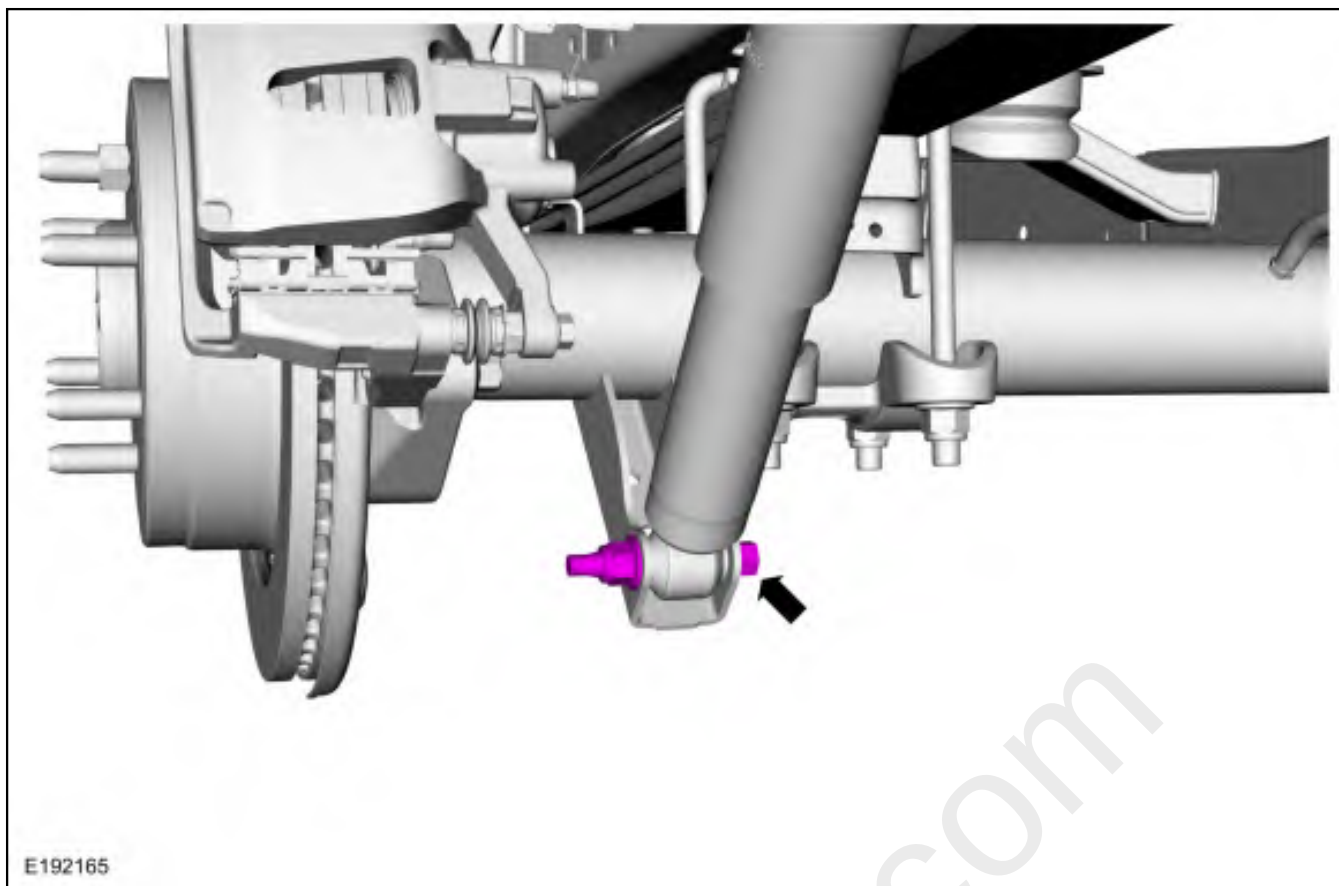
2. Install the U-bolt plate.
3. **NOTE:** *Only tighten the nut and bolt to snug at this stage.*

Install the new U-bolt nuts.

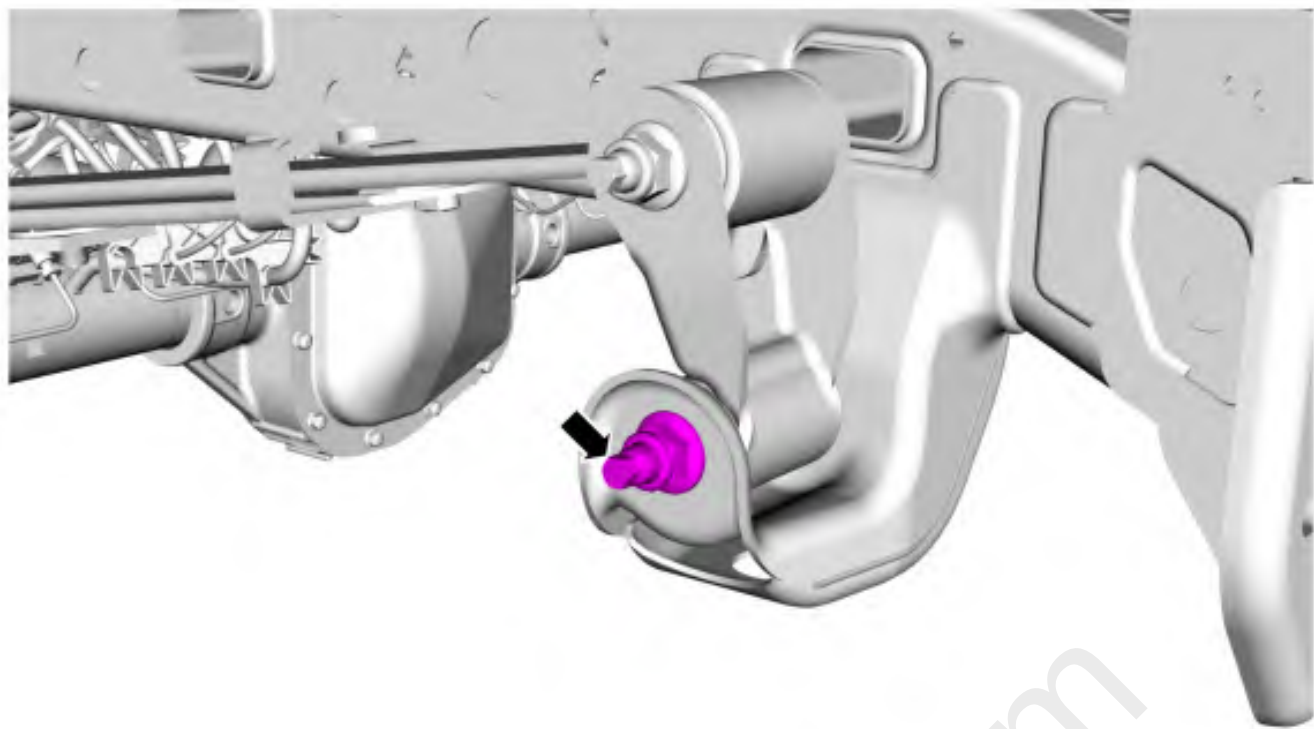


8. **NOTE:** *Only tighten the nut and bolt to snug at this stage.*

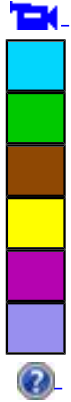
Install the new rear shock absorber lower nut and bolt.



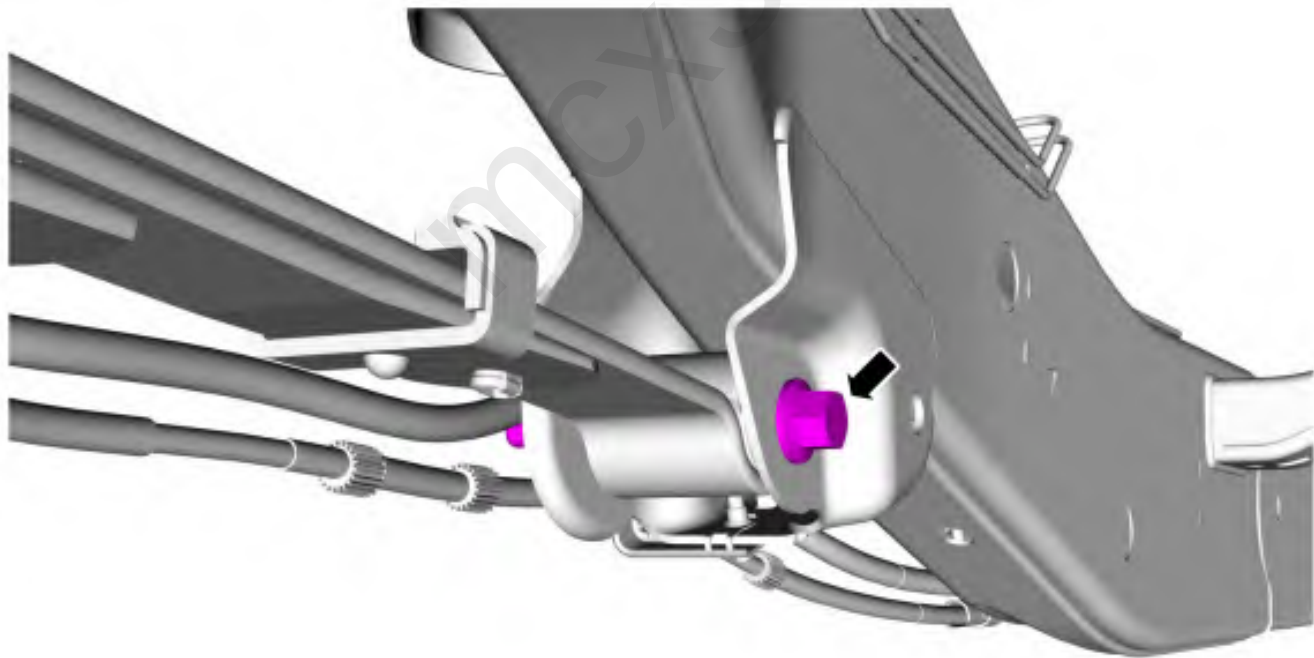
9. Install the wheel and tire.
Refer to: [Wheel and Tire](#) (204-04A Wheels and Tires, Removal and Installation).
10. Lower the vehicle until the weight of the vehicle is resting on the wheels and tires (curb height).
11. Tighten the new spring shackle-to-frame nut and bolt.
Torque: 173 lb.ft (235 Nm)



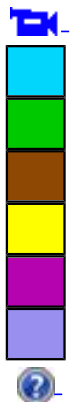
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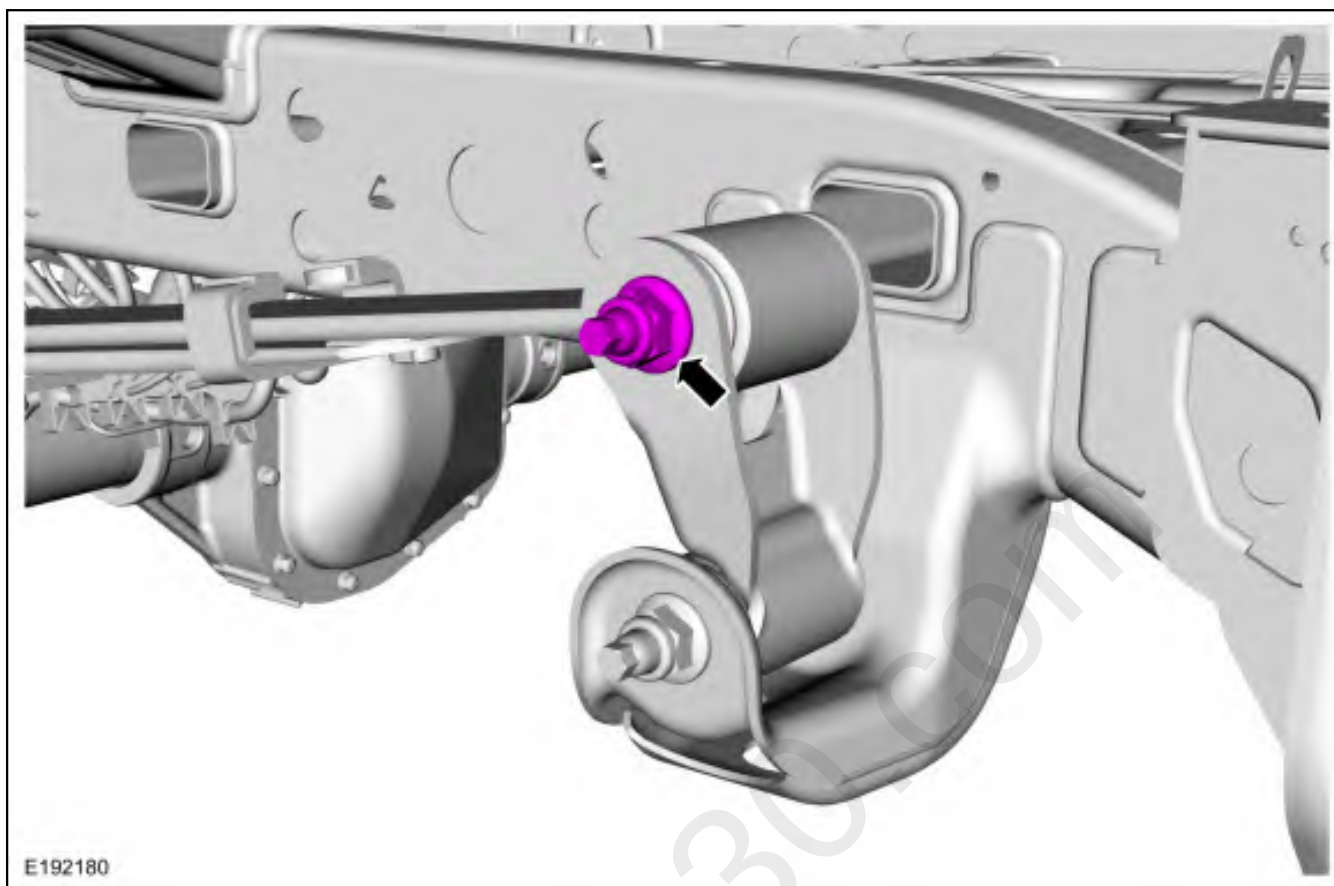
12. Tighten the new spring-to-frame nut and bolt.
Torque: 258 lb.ft (350 Nm)



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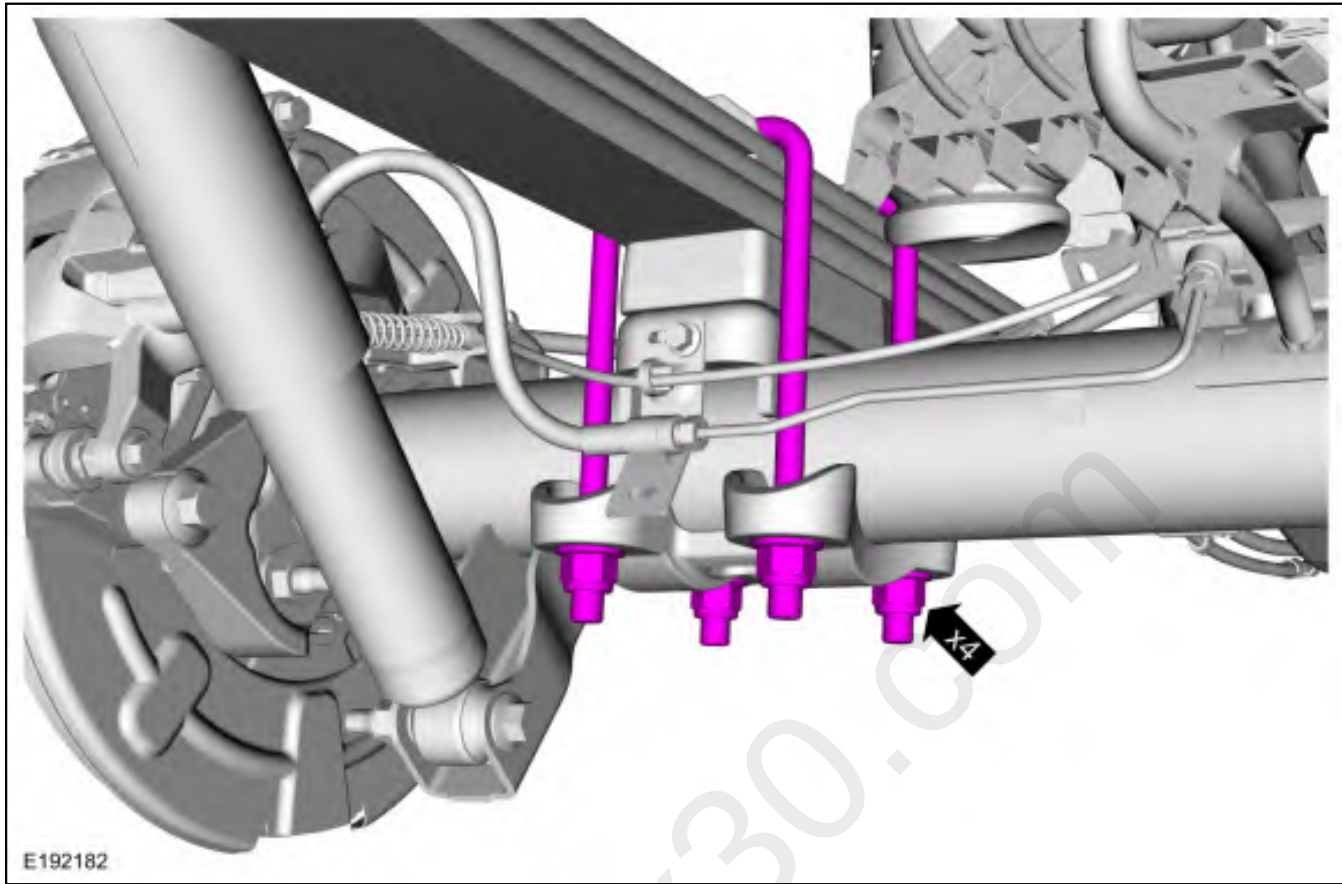


13. If necessary.
Tighten the new shackle-to-spring bolt and nut.
Torque: 173 lb.ft (235 Nm)

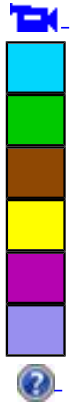
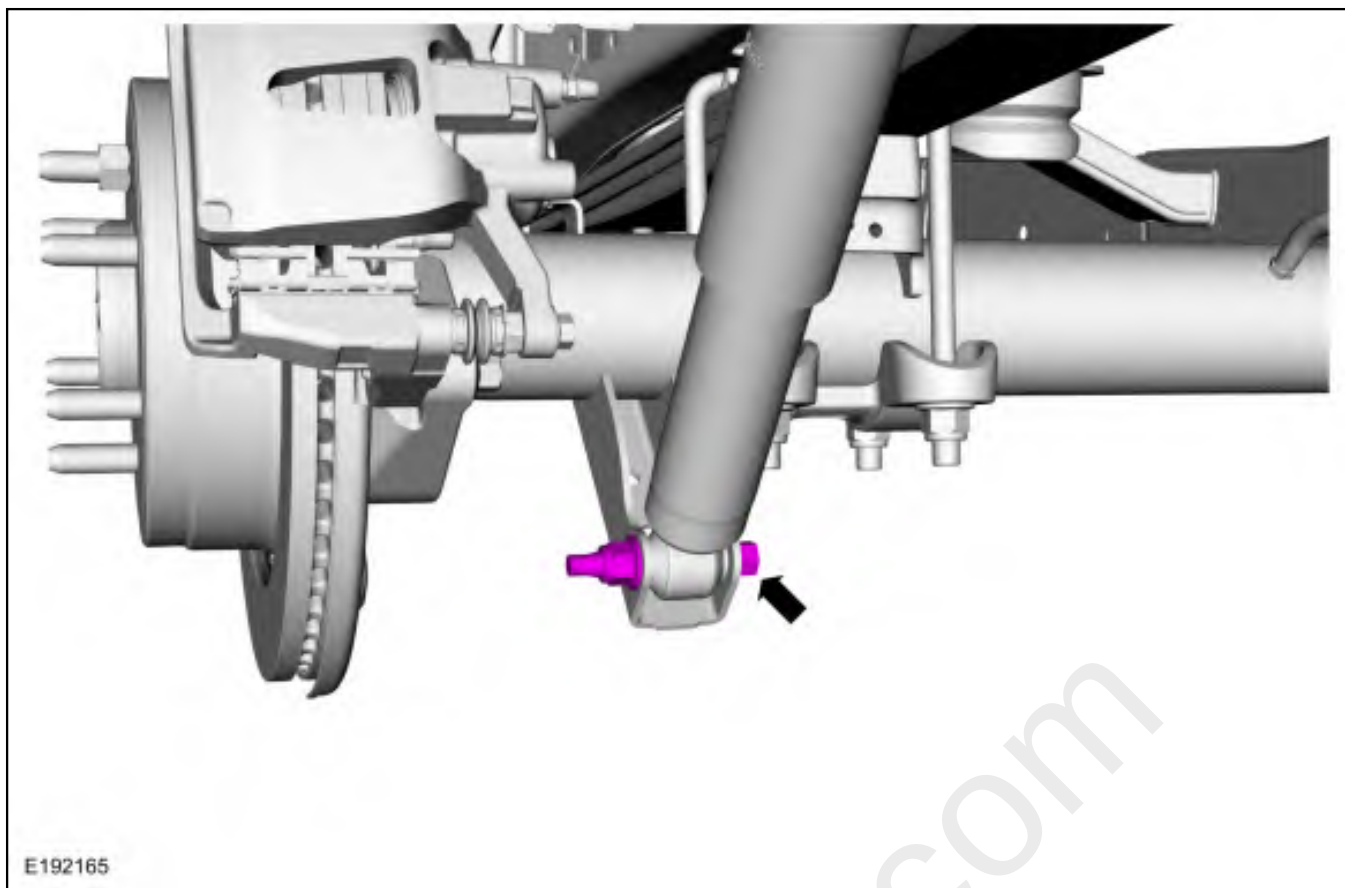


14. For the RH spring.
Install the muffler.
Refer to: [Muffler and Tailpipe](#) (309-00A Exhaust System - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
Refer to: Rear Muffler - Emission Requirements: Stage VI (309-00F) .
Refer to: [Muffler and Tailpipe](#) (309-00B Exhaust System - 3.3L Duratec - V6, Removal and Installation).
Refer to: [Muffler and Tailpipe](#) (309-00C Exhaust System - 3.5L EcoBoost (272kW/370PS), Removal and Installation).
Refer to: [Muffler and Tailpipe](#) (309-00D Exhaust System - 5.0L 32V Ti-VCT, Removal and Installation).
15. For the LH spring.
Raise the fuel tank.
Refer to: [Fuel Tank](#) (310-01A Fuel Tank and Lines - 2.7L EcoBoost (238kW/324PS), Removal and Installation).
Refer to: Fuel Tank (310-01F) .
Refer to: [Fuel Tank](#) (310-01B Fuel Tank and Lines - 3.3L Duratec - V6, Removal and Installation).
Refer to: [Fuel Tank](#) (310-01C Fuel Tank and Lines - 3.5L EcoBoost (272kW/370PS), Removal and Installation).
Refer to: [Fuel Tank](#) (310-01D Fuel Tank and Lines - 5.0L 32V Ti-VCT, Removal and Installation).
16. 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)



17. Tighten the new rear shock absorber lower nut and bolt.
Torque: 66 lb.ft (90 Nm)



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