






205-03 Front Drive Axle/Differential
Removal and Installation

2019 Ranger
Procedure revision date: 12/13/2018

Axle Tube Bearing

Special Tool(s) / General Equipment

 E129694	100-001 (T50T-100-A) Slide Hammer
 E294700	205-1052 Installer, Axle Seal
 E294700	205-1053 Installer, Axle Tube Needle Bearing
 E133913	205-153 (T80T-4000-W) Handle
 E142027	308-125 Remover, Transfer Case Bearing TKIT-1987-LM TKIT-1987-FLM
Transmission Jack	

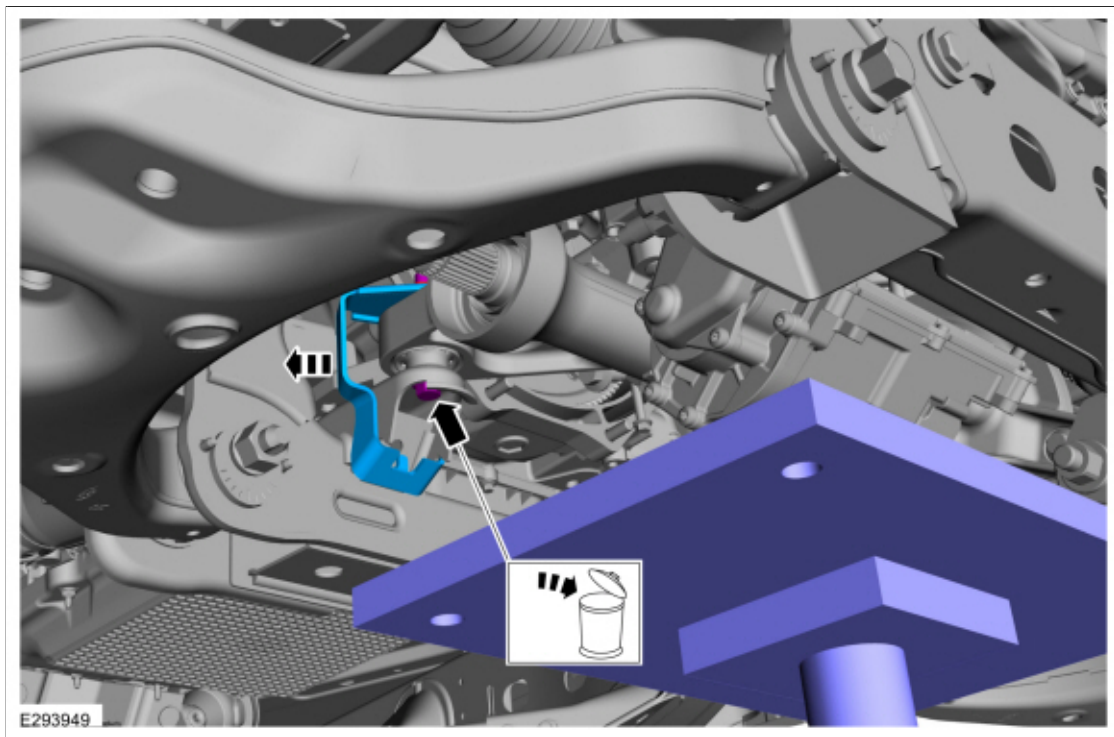
Materials

Name	Specification
Silicone Sealant	WSS-M4G323-A8

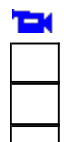
Removal

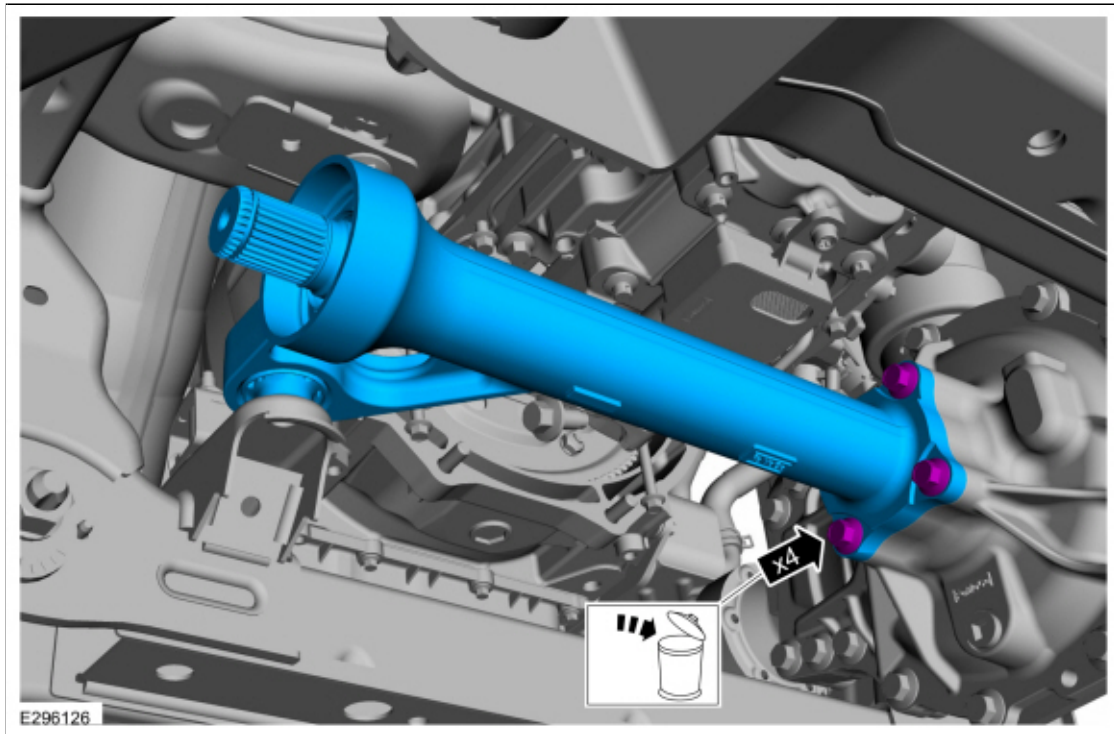
1. Remove the wheel and tire.
Refer to: [Wheel and Tire](#) (204-04A Wheels and Tires, Removal and Installation).

2. Drain the front differential.
Refer to: [Differential Draining and Filling](#) (205-03 Front Drive Axle/Differential, General Procedures).
3. Remove the front halfshafts.
Refer to: [Front Halfshaft LH](#) (205-04 Front Drive Halfshafts, Removal and Installation).
Refer to: [Front Halfshaft RH](#) (205-04 Front Drive Halfshafts, Removal and Installation).
4. Using transmission jack, support the front axle assembly and remove and discard the front axle tube bushing bolt and the support bracket.
Use the General Equipment: Transmission Jack

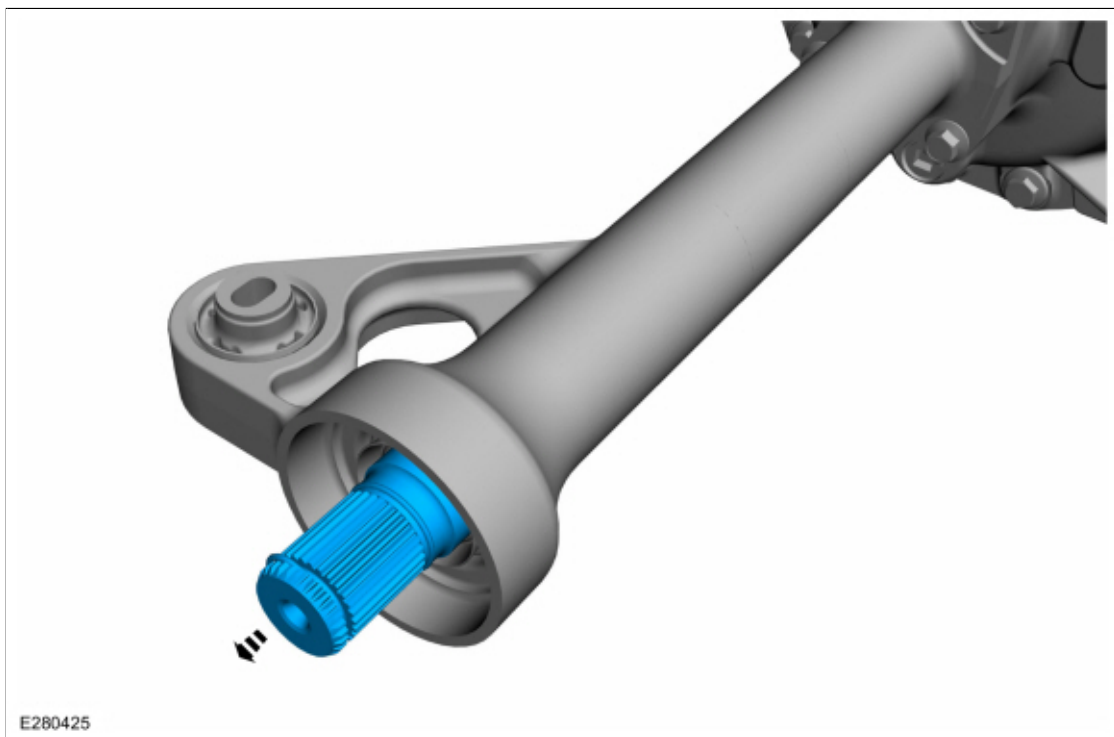


5. Remove and discard the axle tube bolts and the axle tube.
Use the General Equipment: Transmission Jack

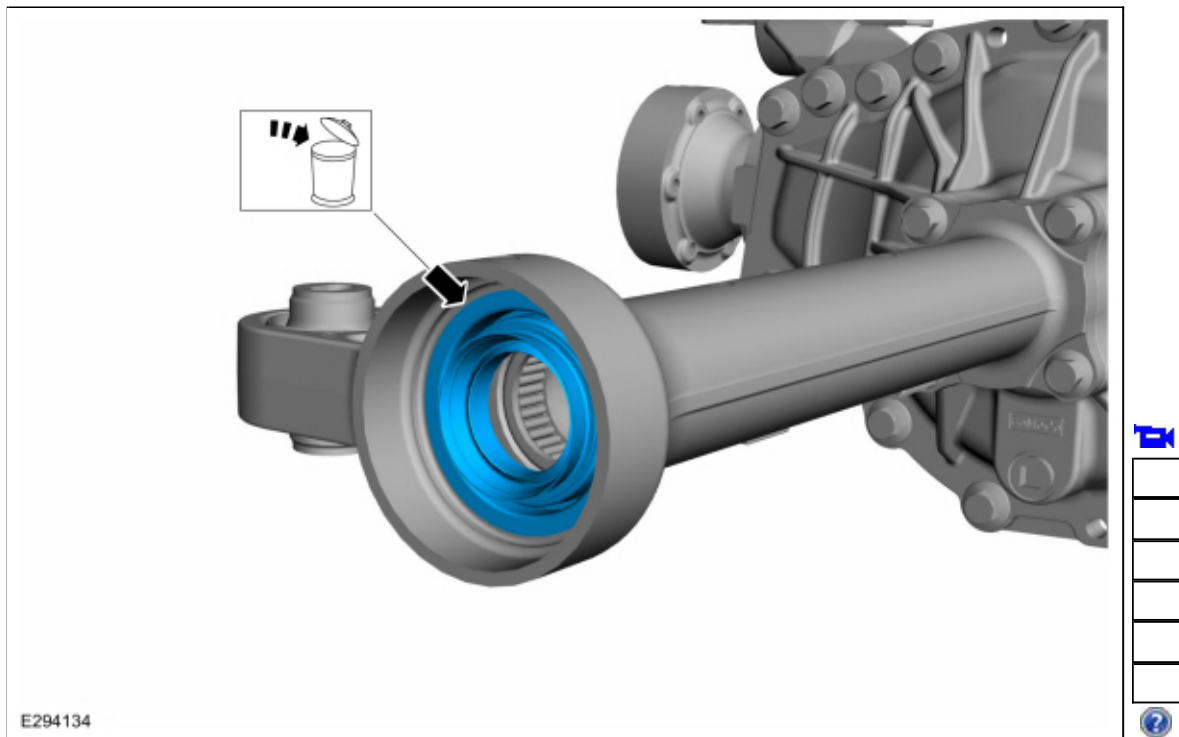




6. Remove the axle shaft.



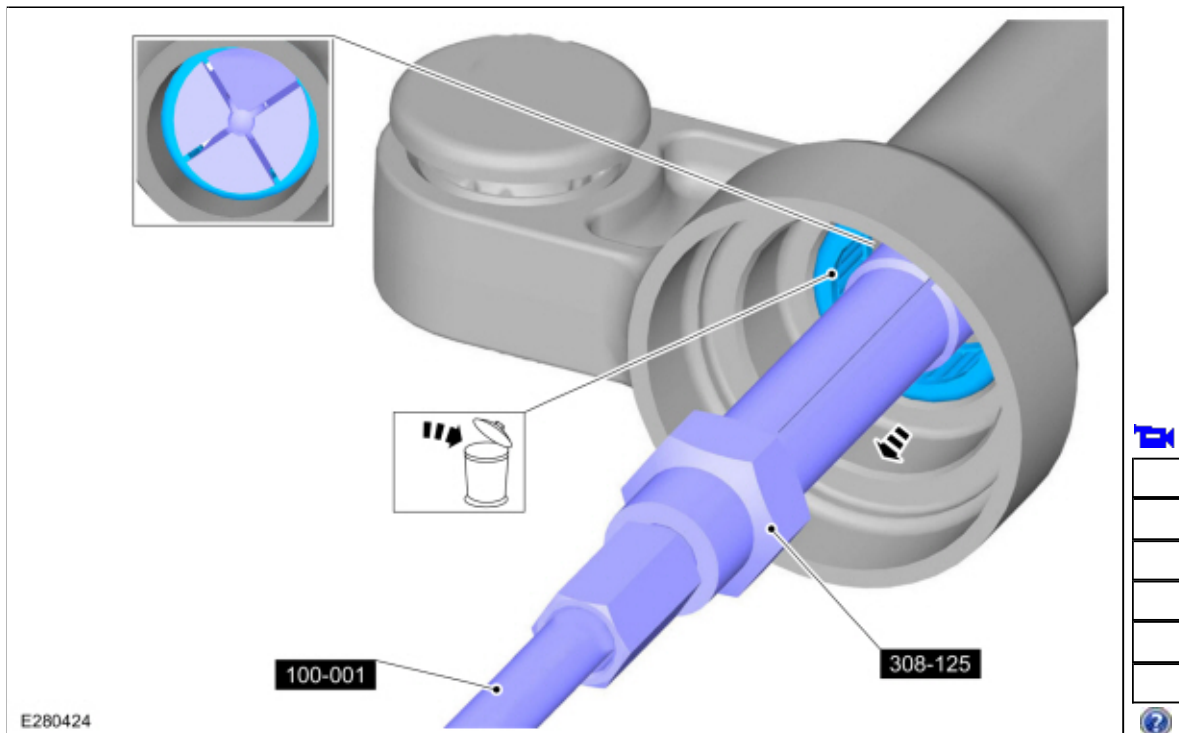
7. Remove and discard the axle shaft seal.



8. **NOTICE:** Make sure that the special tool does not make contact with the axle tube during bearing removal. Failure to follow this instruction will cause damage to the axle tube.

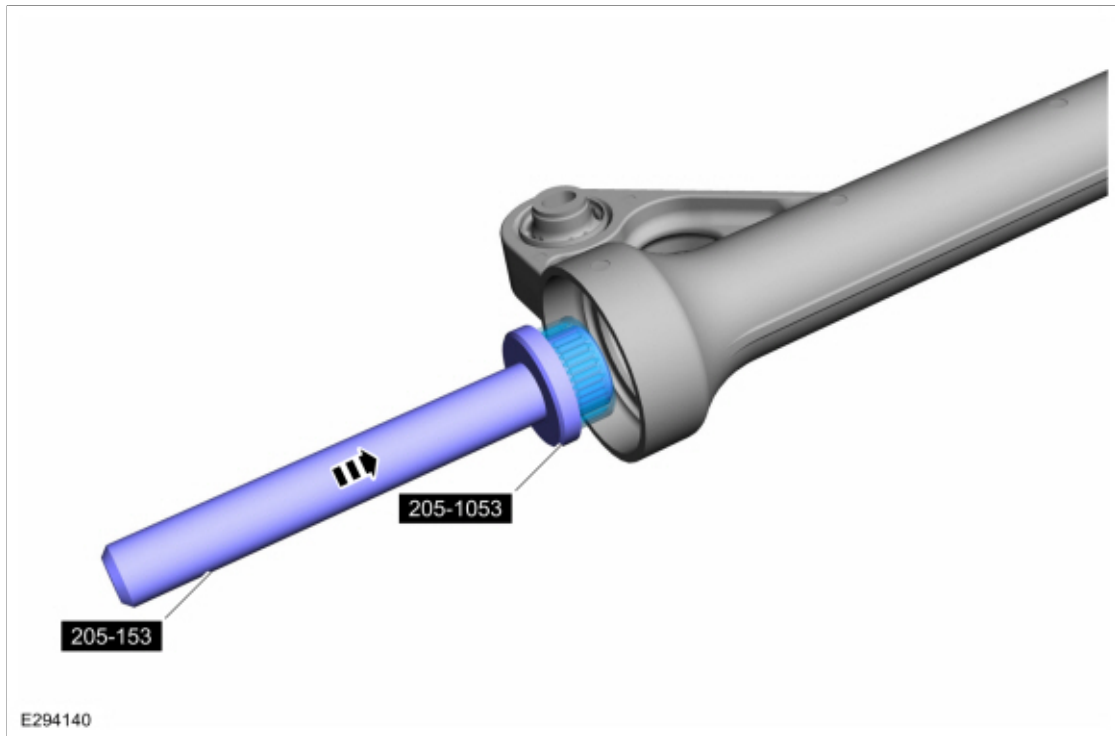
Using special tool and a slide hammer, remove and discard the axle shaft pilot bearing.

Use Special Service Tool: [100-001 \(T50T-100-A\) Slide Hammer](#), [308-125 Remover, Transfer Case Bearing](#).

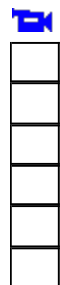


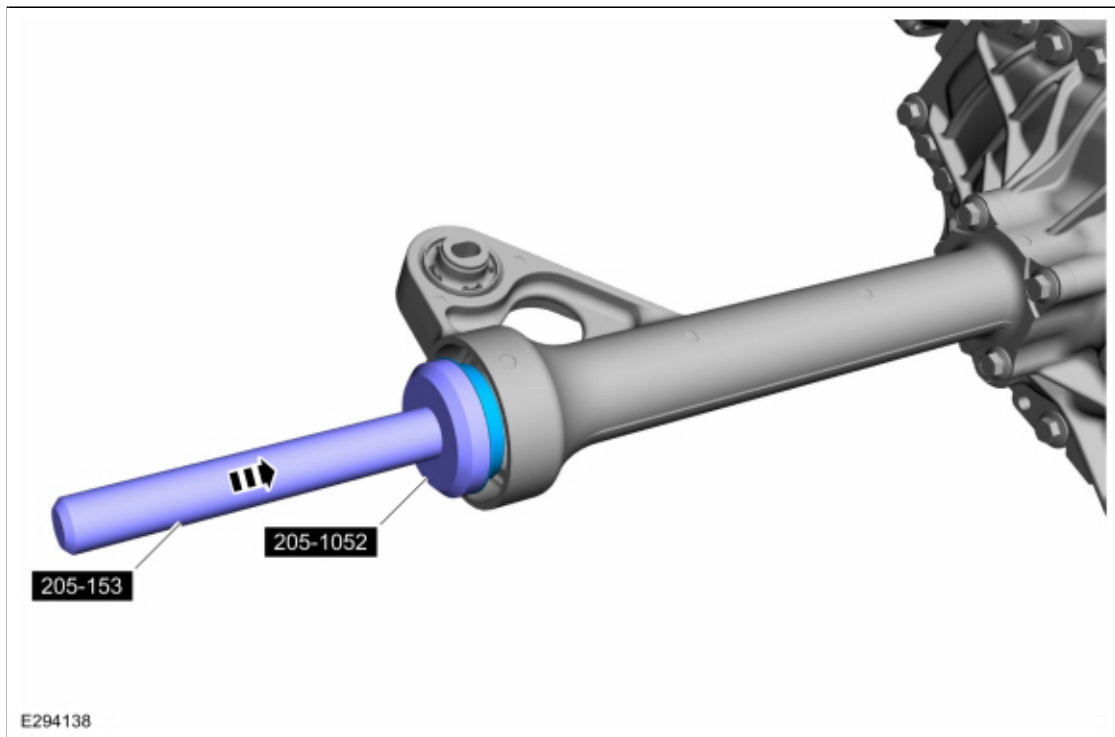
Installation

1. Using the special tool, install the new axle shaft bearing.
Use Special Service Tool: [205-153 \(T80T-4000-W\) Handle](#) , [205-1053 Installer, Axle Tube Needle Bearing](#).



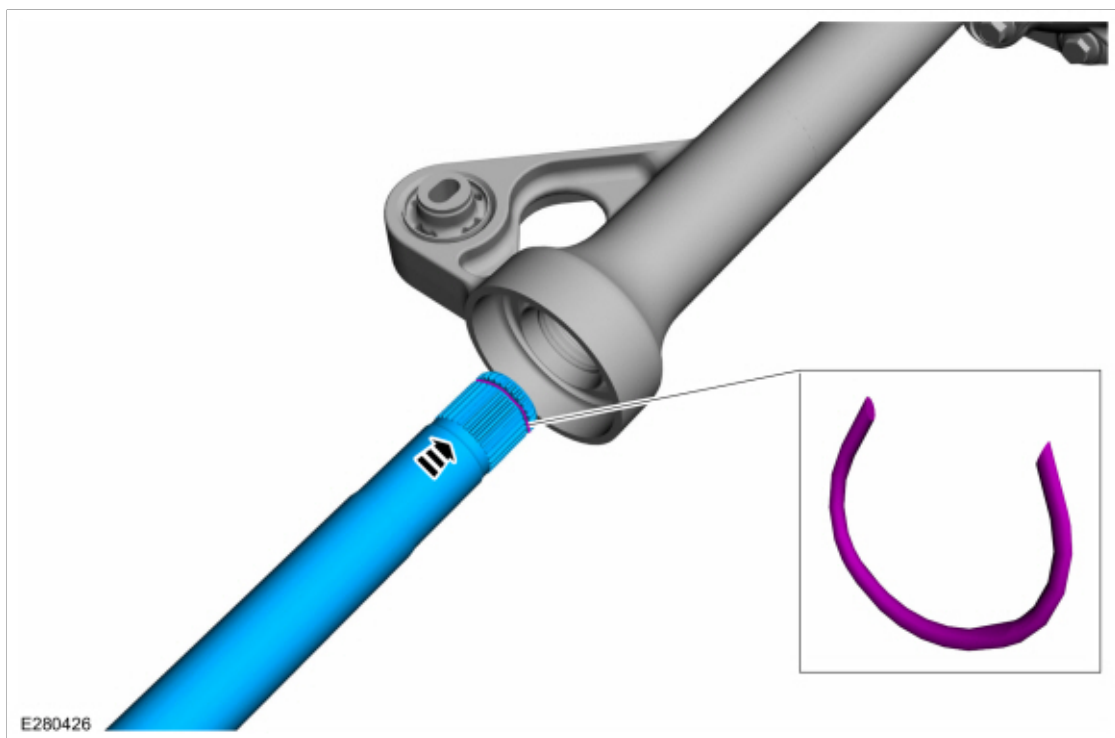
2. Using the special tools, install the new axle shaft seal.
Use Special Service Tool: [205-153 \(T80T-4000-W\) Handle](#) , [205-1052 Installer, Axle Seal](#).



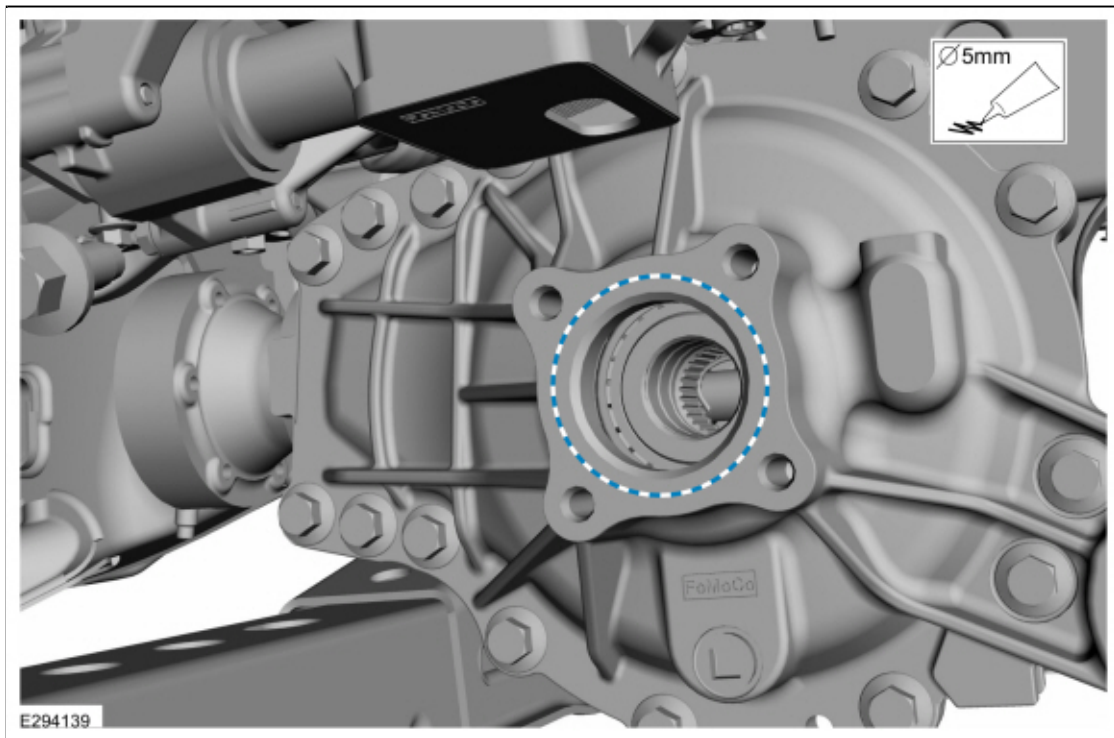


3. **NOTE:** Make sure that new component is installed.

Start one end of the retainer in the groove and work it over the halfshaft and into the groove to prevent the retainer from over expanding.
Install the axle shaft.



4. Apply a new continuous bead of sealant to the differential housing cover as shown.
Material: Silicone Sealant (WSS-M4G323-A8)



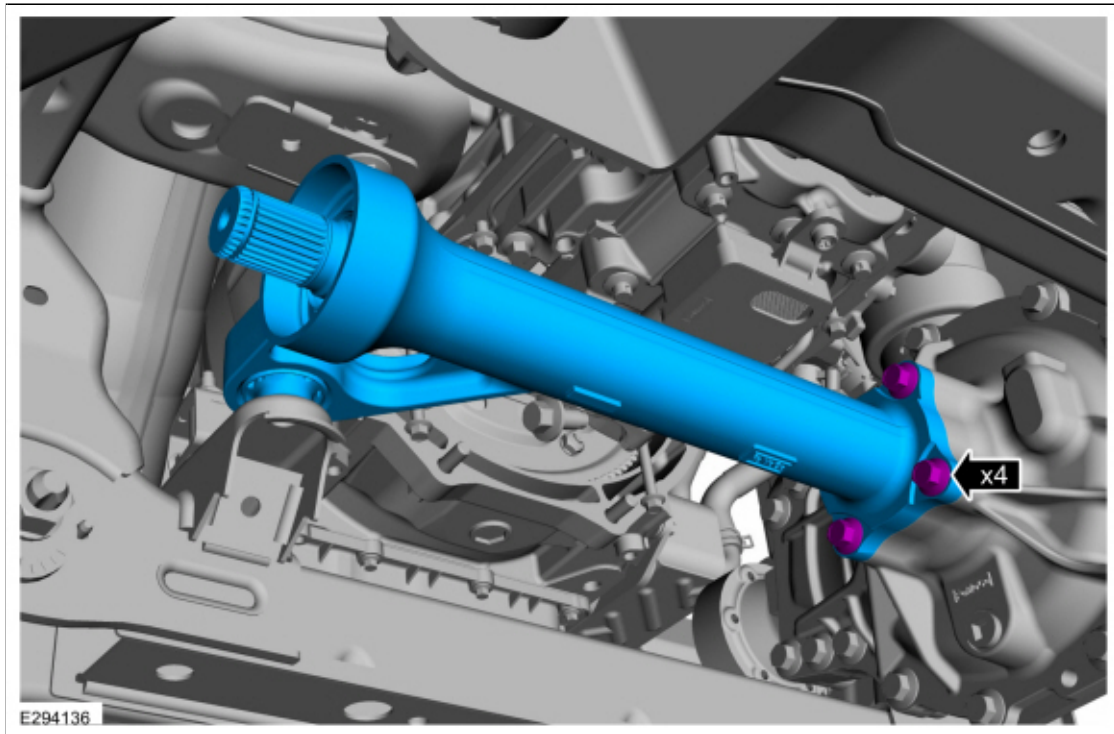
5. **NOTE:** Make sure that new bolts are installed.

Install the front axle tube and bolts.

Torque:

Stage 1: 22 lb.ft (30 Nm)

Stage 2: 35°

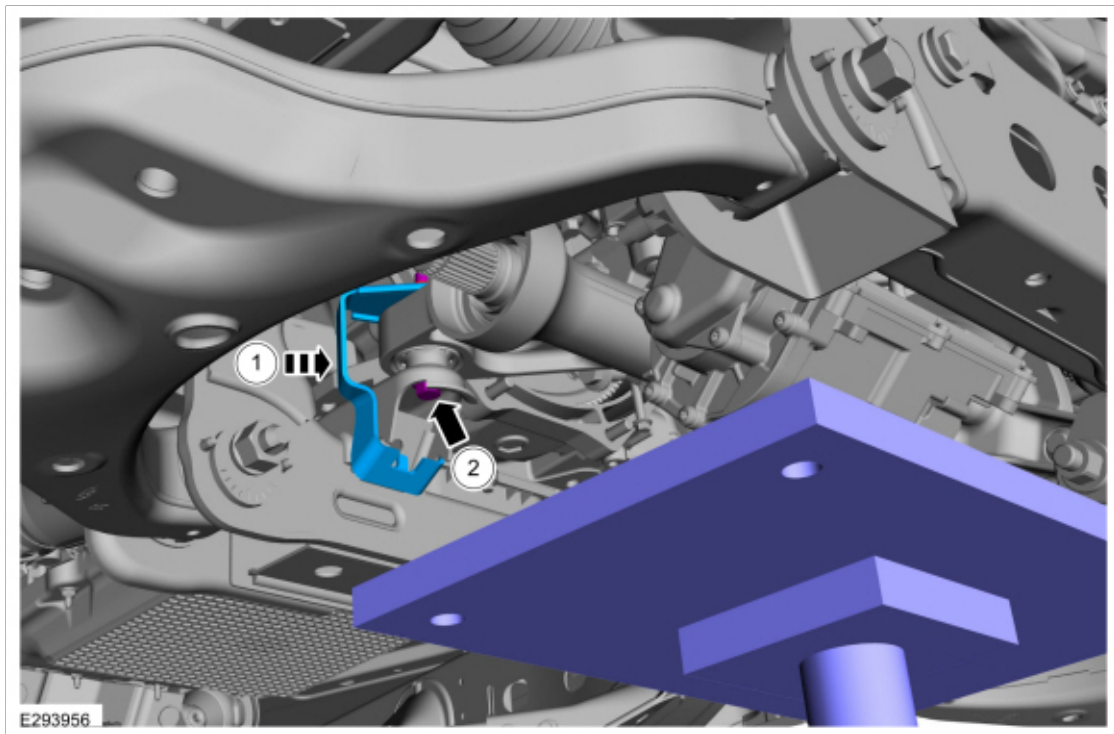


6. **NOTE:** Make sure that new bolts are installed.

Install the front axle tube bushing support bracket and the bolt. Lower the transmission jack.

Use the General Equipment: Transmission Jack

Torque: 52 lb.ft (70 Nm)



7. Fill the front differential.
Refer to: [Differential Draining and Filling](#) (205-03 Front Drive Axle/Differential, General Procedures).
8. Install the front halfshafts.
Refer to: [Front Halfshaft LH](#) (205-04 Front Drive Halfshafts, Removal and Installation).
Refer to: [Front Halfshaft RH](#) (205-04 Front Drive Halfshafts, Removal and Installation).
9. Install the wheel and tire.
Refer to: [Wheel and Tire](#) (204-04A Wheels and Tires, Removal and Installation).

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