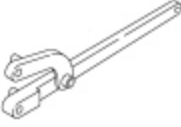

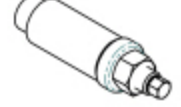





Drive Pinion Flange and Seal

Special Tool(s) / General Equipment

 15030A	<p>205-072 Universal Flange Holding Wrench</p>
 E232969	<p>205-1018 Installation Tube</p>
 E294704	<p>205-1055 Installer, Companion Flange</p>
 E254789	<p>205-208 (T83T-4676-A) Installer, Drive Pinion Oil Seal TKIT-1983-F TKIT-1983-FLM TKIT-1983-FX</p>
 E254789	<p>205-393 Installer, Drive Pinion Flange TKIT-1997-FH/FMH/FLMH</p>
 E232993	<p>308-945 Installer, Fixed Yoke Output Seal</p>
<p>Flat Headed Screw Driver</p>	
<p>Three Leg Puller</p>	

Removal

NOTICE: Exceeding the drive pinion bearing preload will damage the bearings.

1. If vehicle equipped with electric brake booster.
Deactivate the brake service mode .
Refer to: [Brake Service Mode Activation and Deactivation](#) (206-00 Brake System - General Information, General Procedures).

2. Remove the wheel and tire.
Refer to: Wheel and Tire (204-04) .

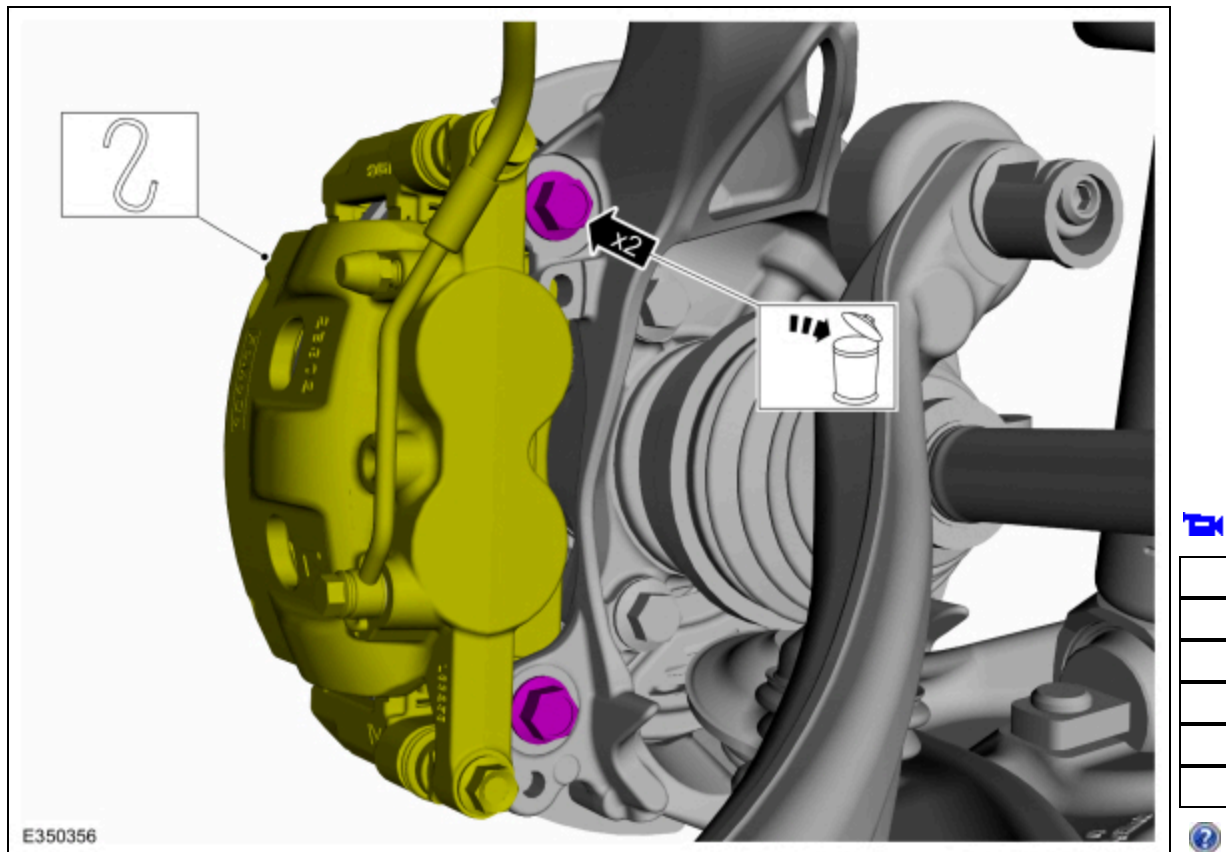
3. **NOTICE:** Do not pry in the caliper sight hole to retract the pistons as this can damage the pistons and boots.

NOTICE: Do not allow the brake caliper and anchor plate assembly to hang from the brake hose or damage to the hose can occur.

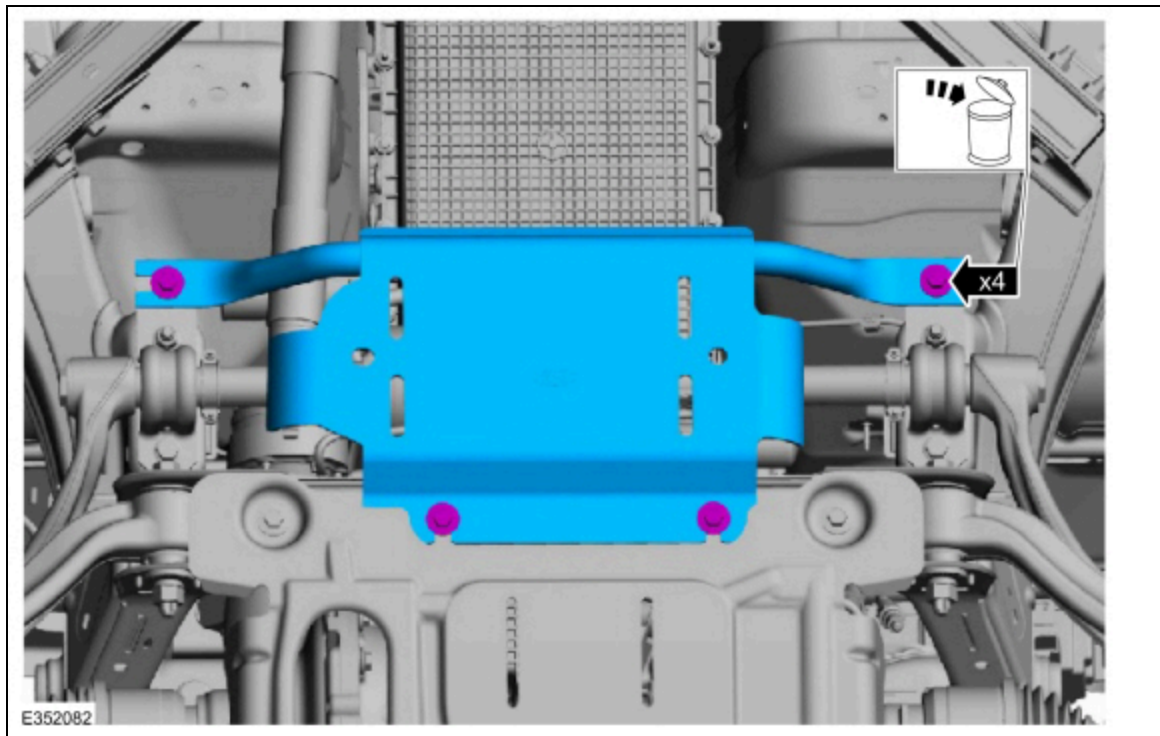
NOTE: Do not separate brake pad out from caliper assembly.

On both sides.

- Remove and discard the anchor plate bolts.
- Position the brake caliper and anchor plate assembly aside.



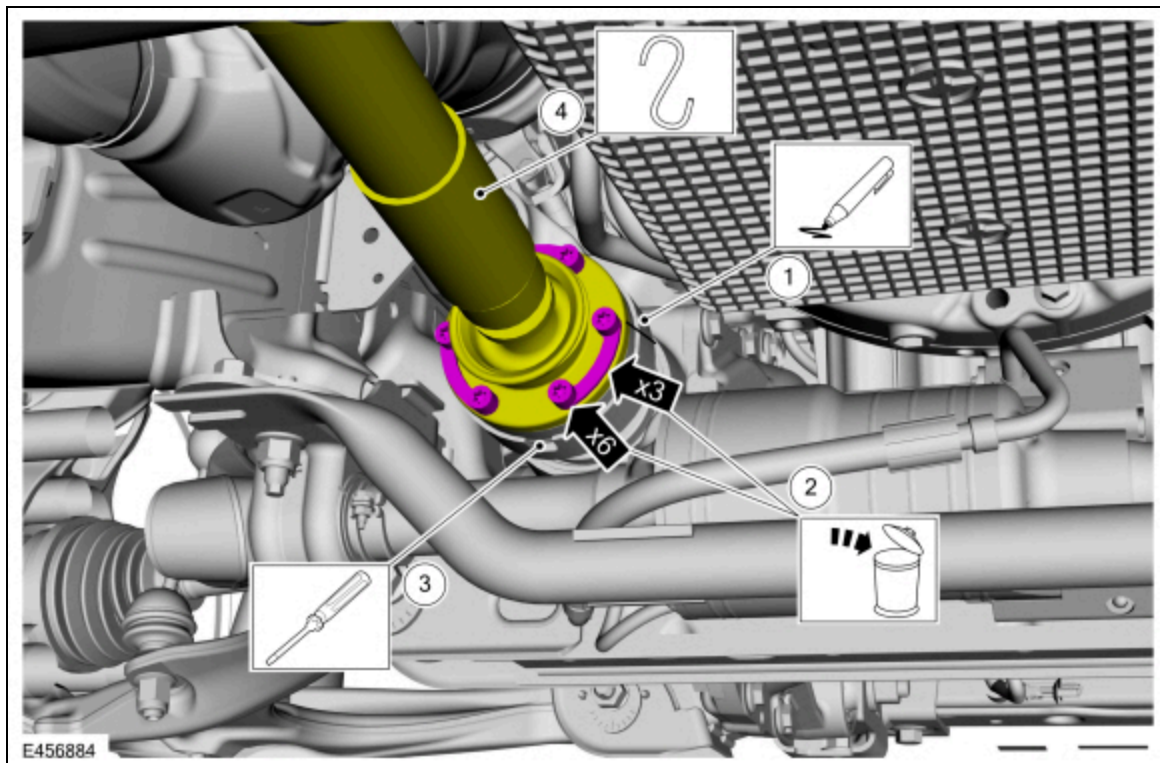
4. If equipped.
Remove and discard the bolts and remove the stabilizer bar undershield.



5. **NOTICE:** To avoid damage to the joint or gaiter, do not allow the driveshaft to hang.

NOTE: Lock the driveshaft before removing the bolts to avoid slipping.

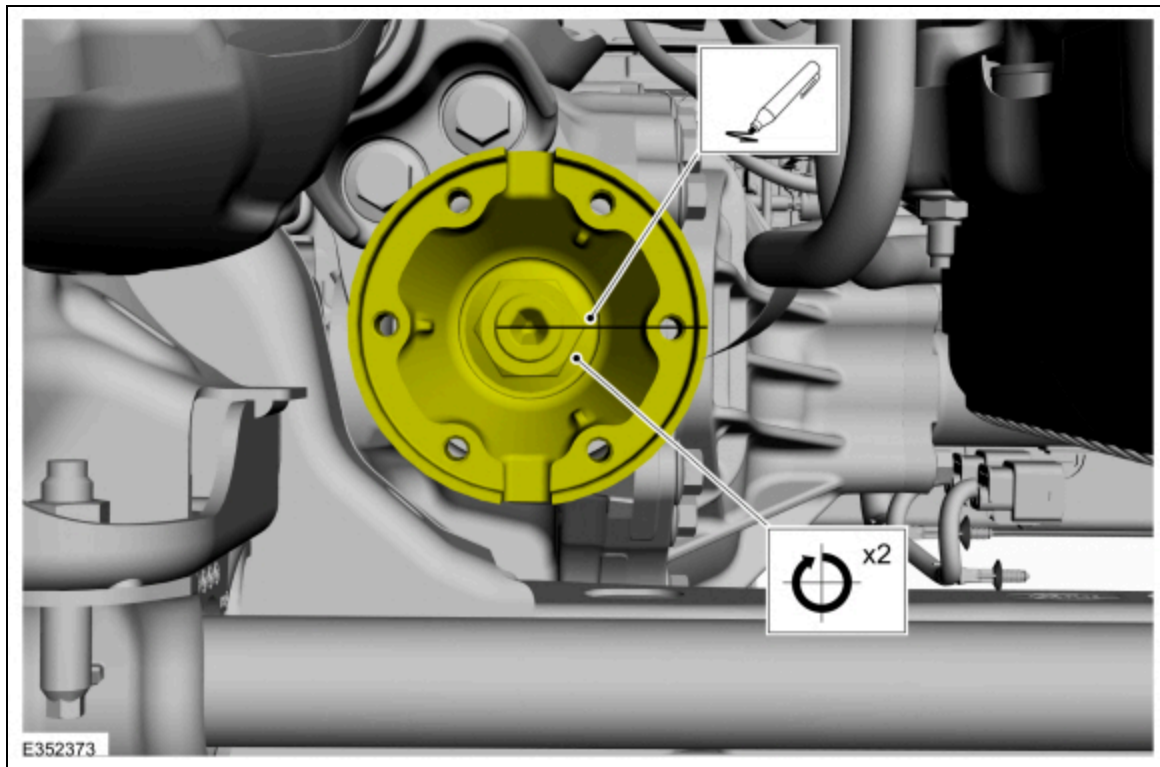
1. Index-mark the front driveshaft CV -joint-to-pinion flange cup.
2. Remove and discard the CV -joint-to-pinion flange cup bolts and retaining straps.
3. Using a general equipment, separate the driveshaft from the drive pinion flange.
Use the General Equipment: Flat Headed Screw Driver
4. Support the front driveshaft.



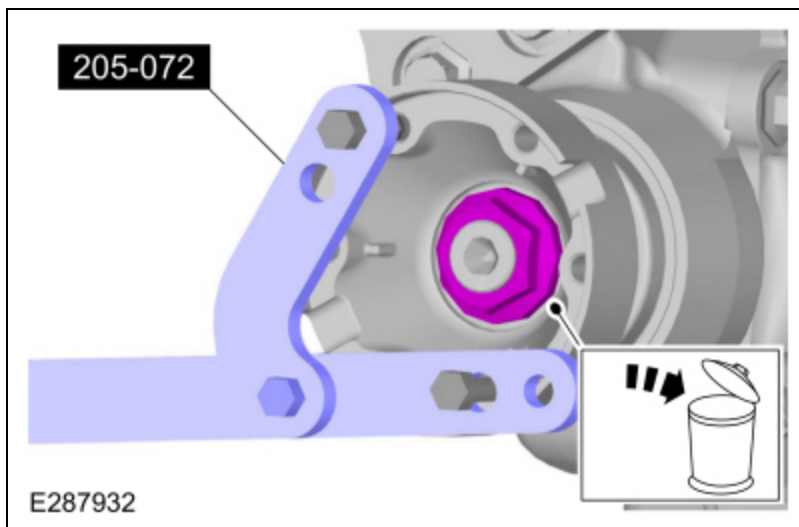
6. **NOTE:** Rotational torque of the drive pinion flange must be measured and recorded using a Nm (lb-in) torque wrench for correct pinion bearing preload when reassembled. This will be the torque-to-turn measurement-

RECORD.

1. Using a dial type torque wrench, measure and record the rotational torque of the drive pinion.
2. Index-mark the pinion flange and the drive pinion stem.

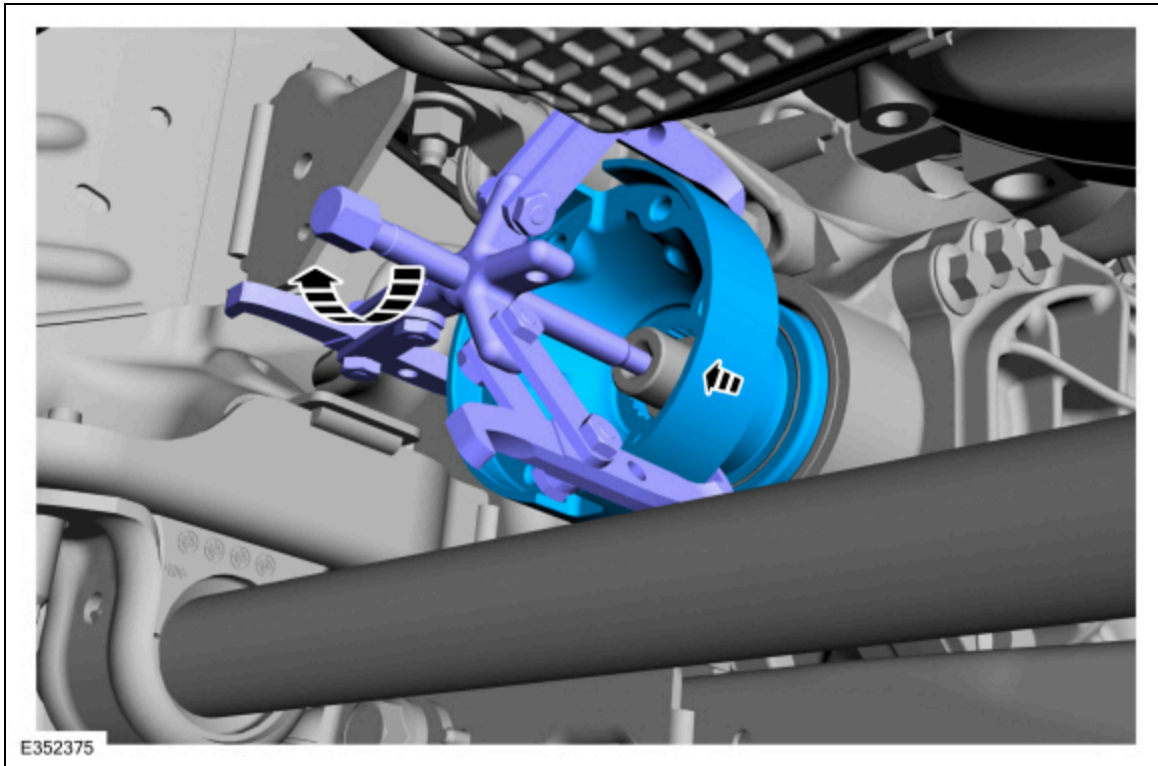


7. Using the special tool, remove and discard the pinion nut.
Use Special Service Tool: 205-072 Universal Flange Holding Wrench.

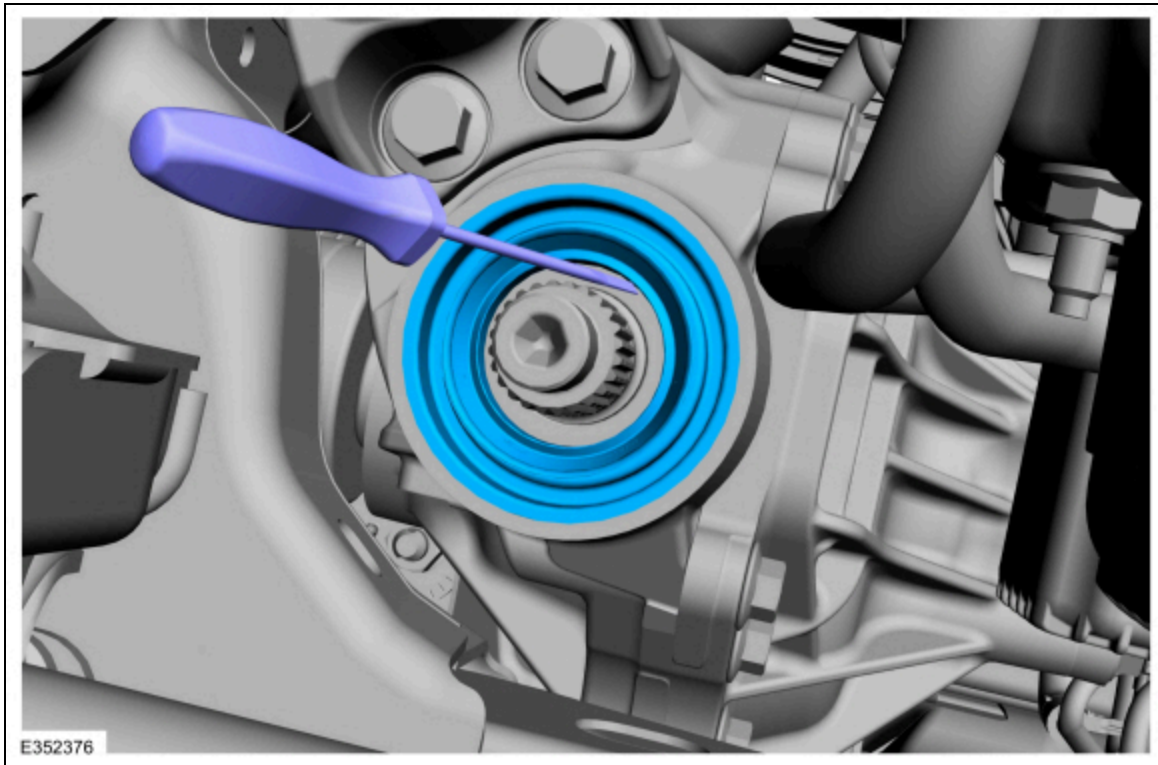


8. **NOTICE: Do not use power tools to remove the pinion flange.**

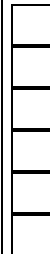
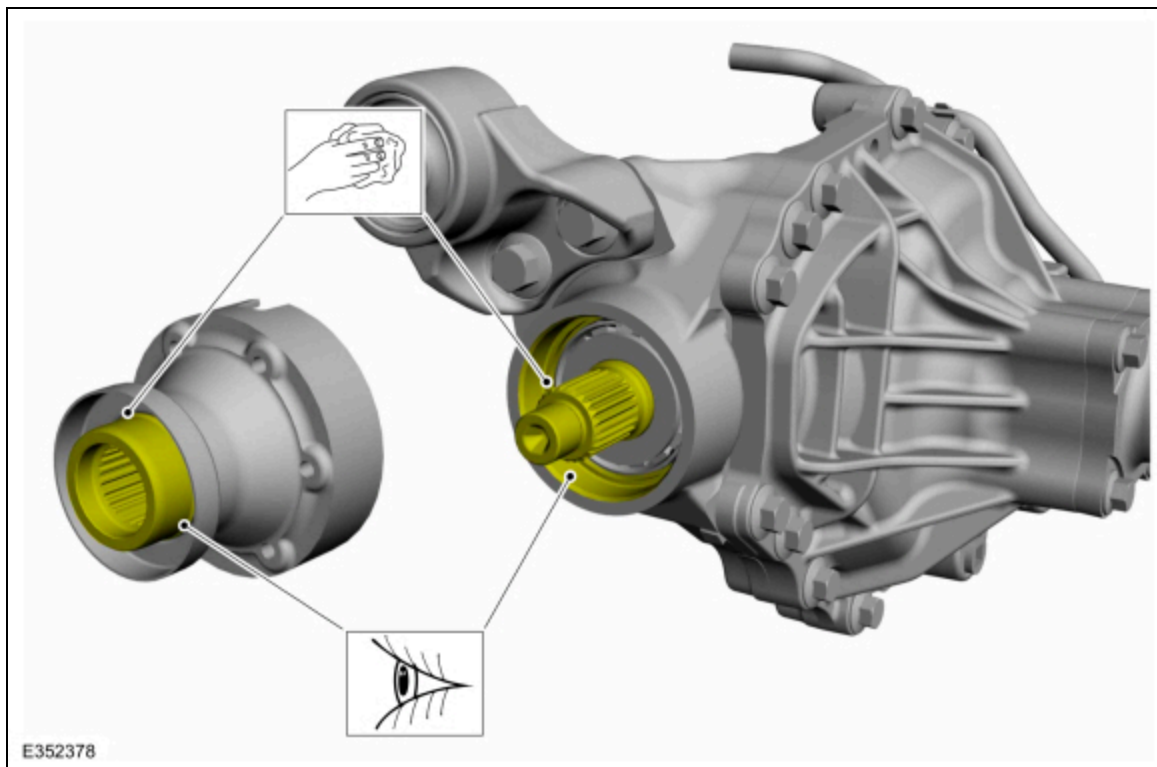
Using the general equipment, remove the pinion flange.
Use the General Equipment: Three Leg Puller



9. Using a general equipment, remove and replace the drive pinion seal.
Use the General Equipment: Flat Headed Screw Driver



10. Clean and inspect the pinion flange mating surfaces and pinion seal surface.

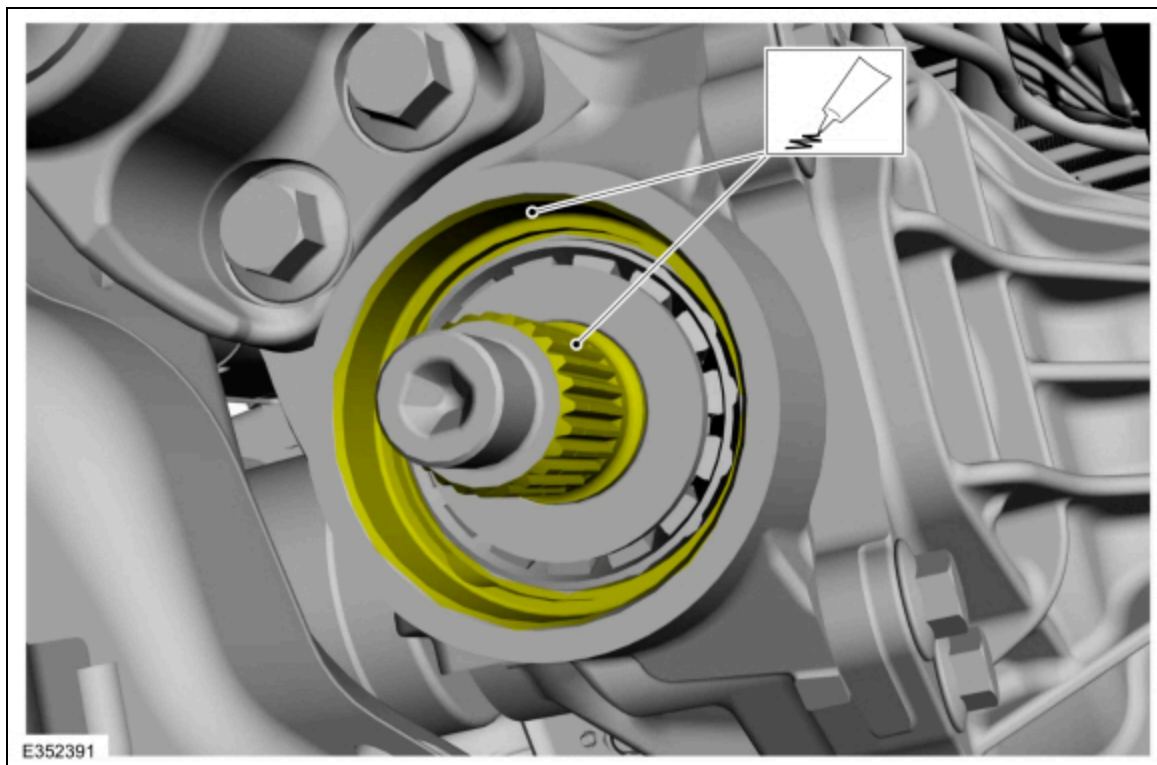


Installation

1. **NOTE:** Make sure that the threads are clean and free of foreign matter.

Lubricate the pinion seal mating surface and pinion splines.

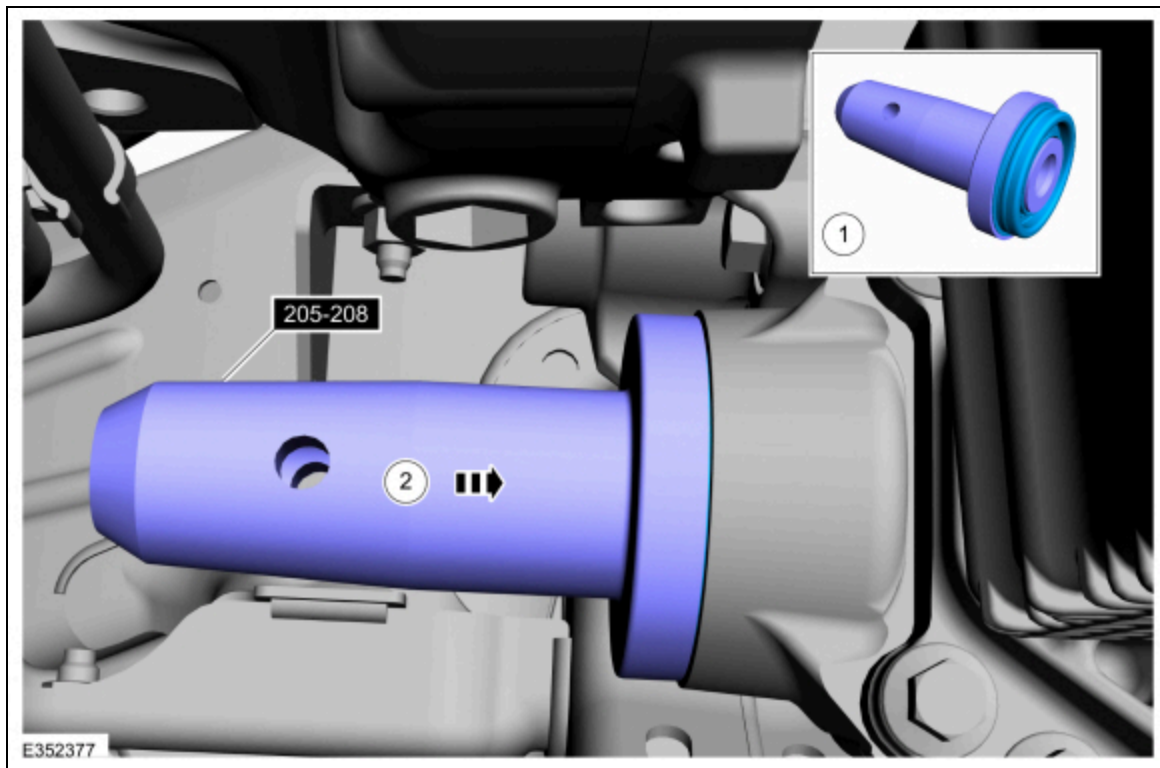
Refer to: [Specifications](#) (205-03A Front Drive Axle/Differential, Specifications).



Vehicle equipped with DANA M190 front differential

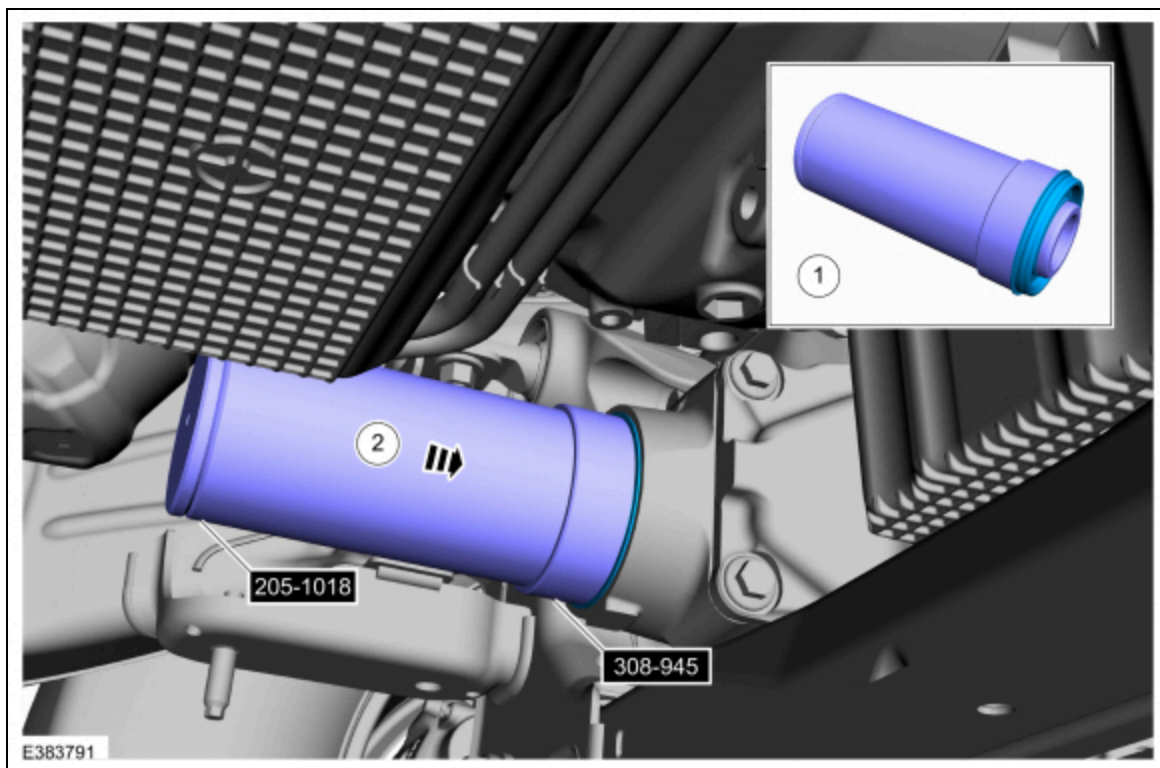
2. 1. Install the new front drive pinion seal on to the special tool.
Use Special Service Tool: [205-208 \(T83T-4676-A\) Installer, Drive Pinion Oil Seal.](#)

2. Using a special tool, install the pinion seal.



Vehicle equipped with DANA M210 front differential

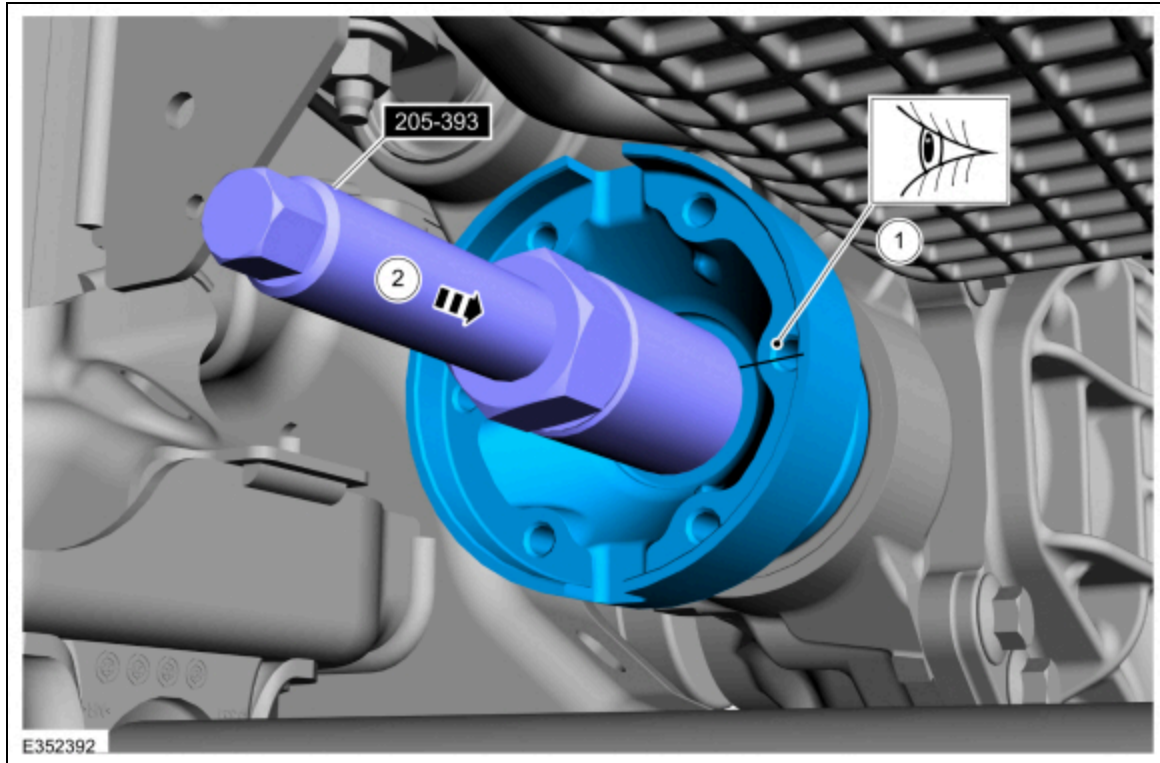
3. 1. Install the new front drive pinion seal on to the special tool.
Use Special Service Tool: [308-945 Installer, Fixed Yoke Output Seal.](#) , [205-1018 Installation Tube.](#)
2. Using a special tool, install the pinion seal.



Vehicle equipped with DANA M190 front differential

4. **NOTE:** Make sure drive pinion flange and drive pinion stem are phased correctly using previously applied mark.

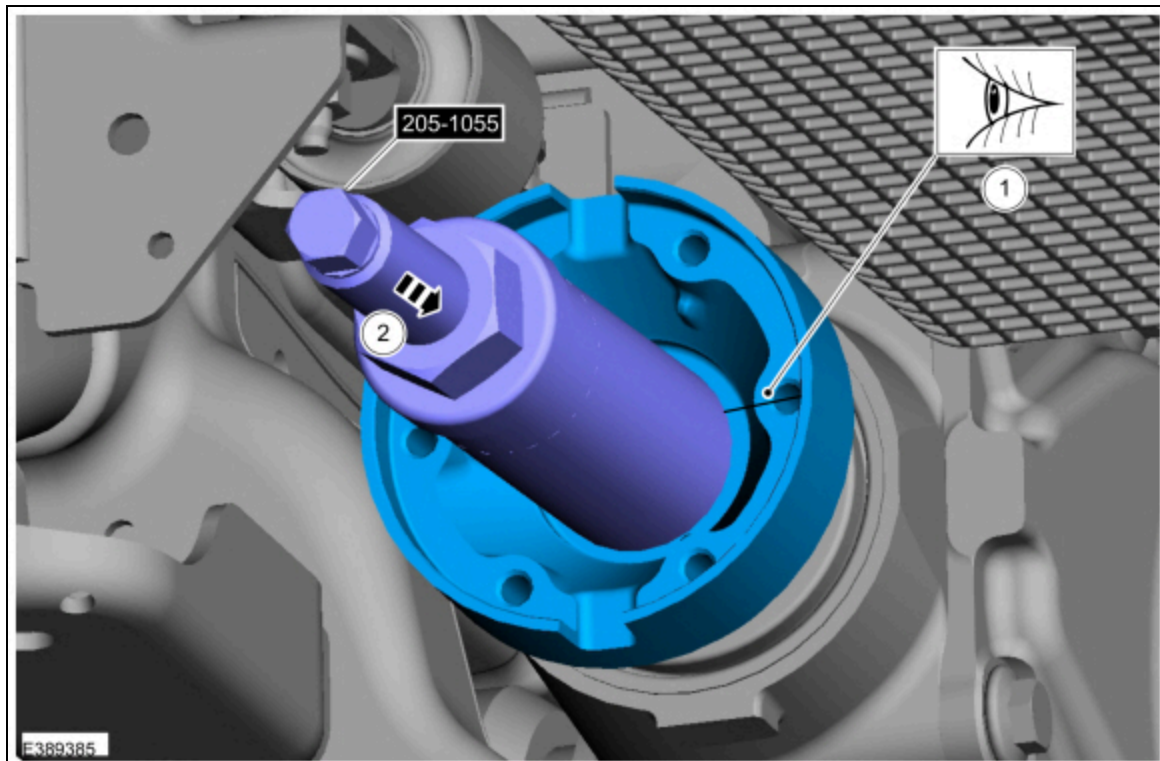
1. Align the index marks made during removal.
2. Using the special tool, install the pinion flange.
Use Special Service Tool: [205-393 Installer, Drive Pinion Flange.](#)



Vehicle equipped with DANA M210 front differential

5. **NOTE:** Make sure drive pinion flange and drive pinion stem are phased correctly using previously applied mark.

- Align the index marks made during removal.
- Using the special tool, install the pinion flange.
Use Special Service Tool: [205-1055 Installer, Companion Flange.](#)

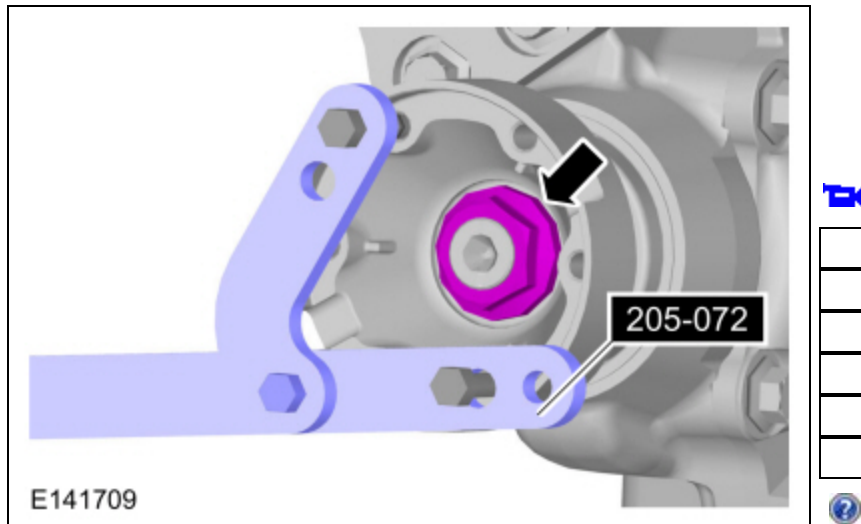


6. **NOTE:** Tighten the pinion nut, rotating the pinion occasionally to make sure the drive pinion bearings are seating correctly. Take frequent drive pinion bearing preload readings by rotating the drive pinion gear with a Nm (lb-in) torque wrench. The final reading must be 0.56 Nm (5 lb-in) more than the initial reading taken during removal.

NOTE: Make sure that a new nut is installed.

Using the special tool, install the new pinion nut.

Use Special Service Tool: 205-072 Universal Flange Holding Wrench.



7. Check the front differential fluid level.
Refer to: [Differential Fluid Level Check](#) (205-03A Front Drive Axle/Differential, General Procedures).

8. 1. Align the index-mark on driveshaft CV -joint-to-pinion flange cup.
2. Fit the driveshaft into the differential flange.
3. **NOTE:** Make sure that new components are installed.

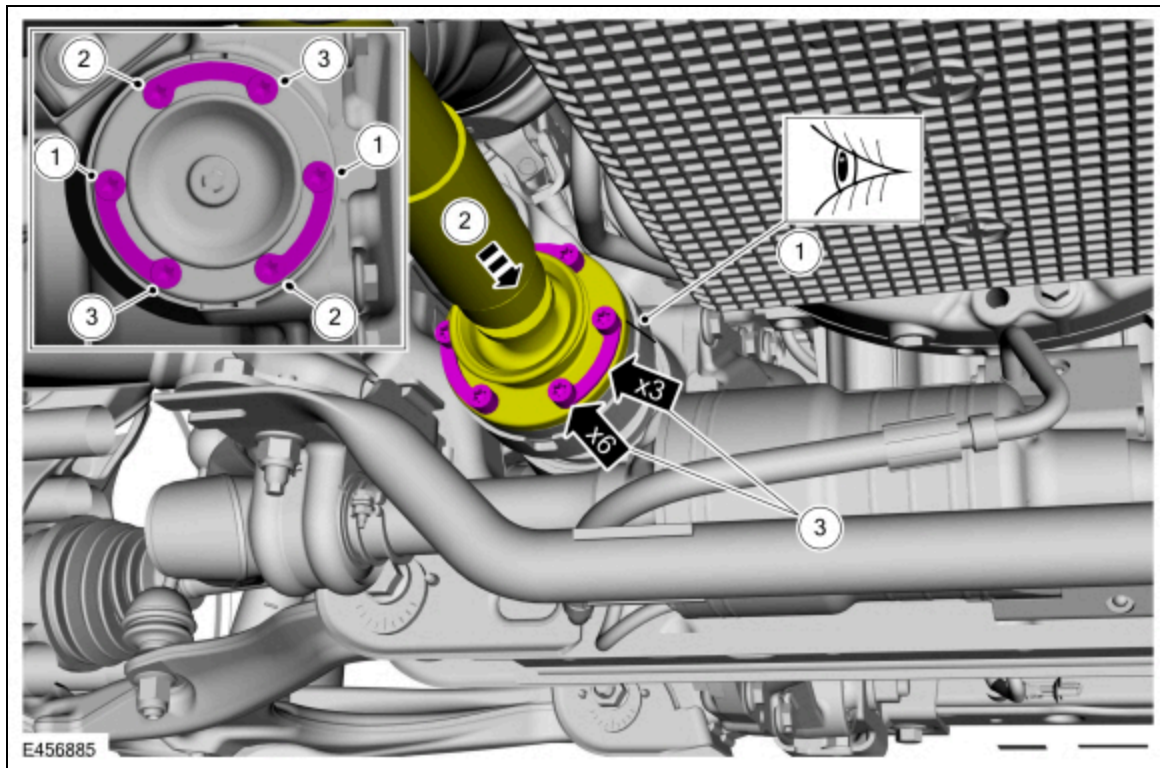
NOTE: Tighten the bolts diagonally.

Install the new driveshaft CV -joint-to-pinion flange cup bolts and retaining straps.

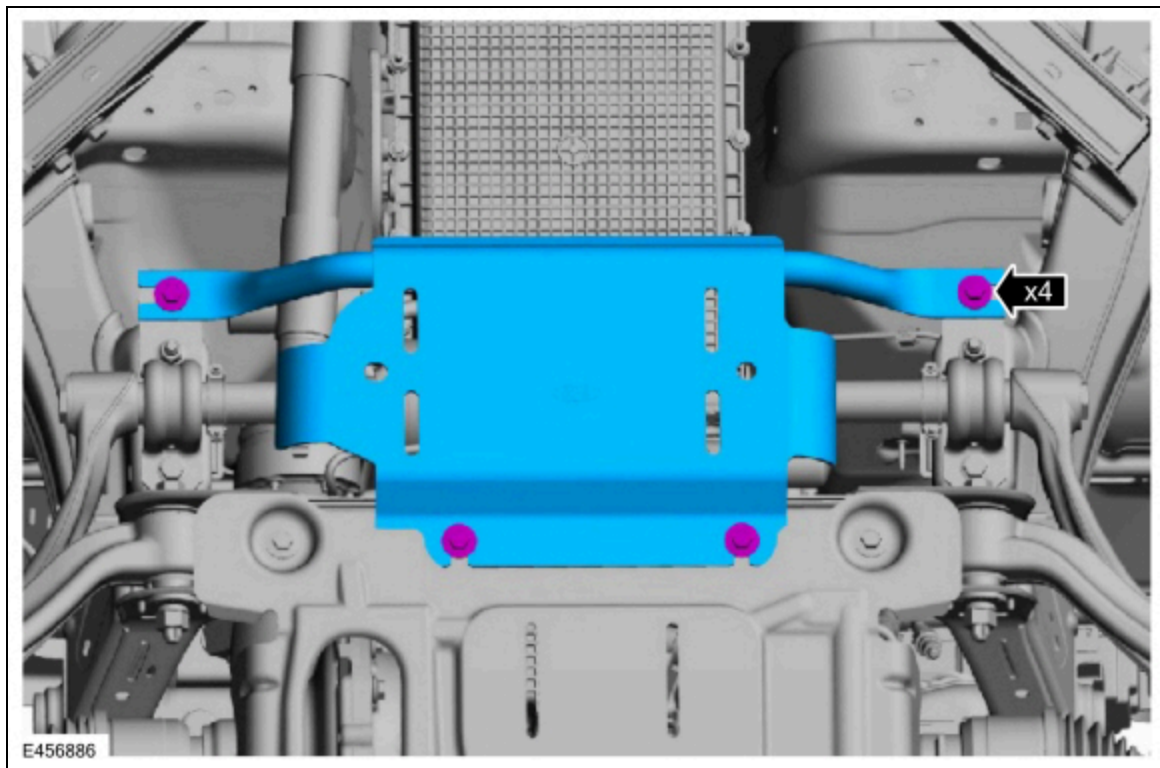
Torque:

Stage 1: 21 lb.ft (28 Nm)

Stage 2: 120°



9. If removed.
 Install the stabilizer bar undershield and install the new stabilizer bar undershield bolts.
Torque: 26 lb.ft (35 Nm)

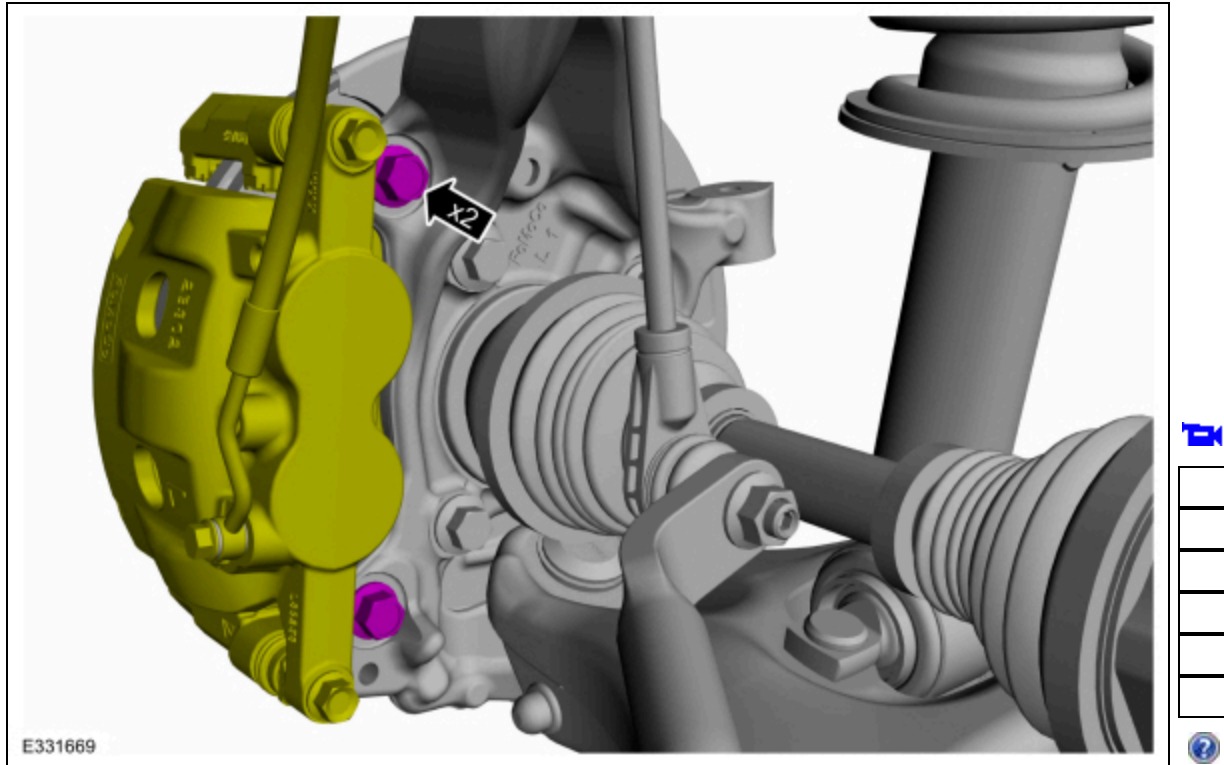


10. **NOTICE:** Make sure that the brake hose is not twisted when installing the brake caliper or damage to the brake flexible hose may occur.

On both sides.

- Position the brake caliper and anchor plate assembly.

- Install the anchor plate bolts.
Torque: 111 lb.ft (150 Nm)



11. Apply the brake pedal several times to verify correct brake system operation.
12. Install the wheel and tire.
Refer to: [Wheel and Tire \(204-04\)](#) .
13. If vehicle equipped with electric brake booster.
Activate the brake service mode.
Refer to: [Brake Service Mode Activation and Deactivation](#) (206-00 Brake System - General Information, General Procedures).