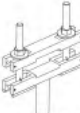


Drive Pinion Flange and Seal

Special Tool(s) / General Equipment

 E129694	100-001 (T50T-100-A) Slide Hammer
 E234284	205-012 (T57T-4851-B) Holding Fixture, Drive Pinion Flange
 E234286	205-018 (T65L-4851-B) Remover, Drive Pinion Flange
 E232971	205-1020 Installer, Pinion Seal
	307-001 (TOOL-1175-AC) Remover, Bushing

Materials

Name	Specification
Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant XY-75W85-QL	WSS-M2C942-A

Removal

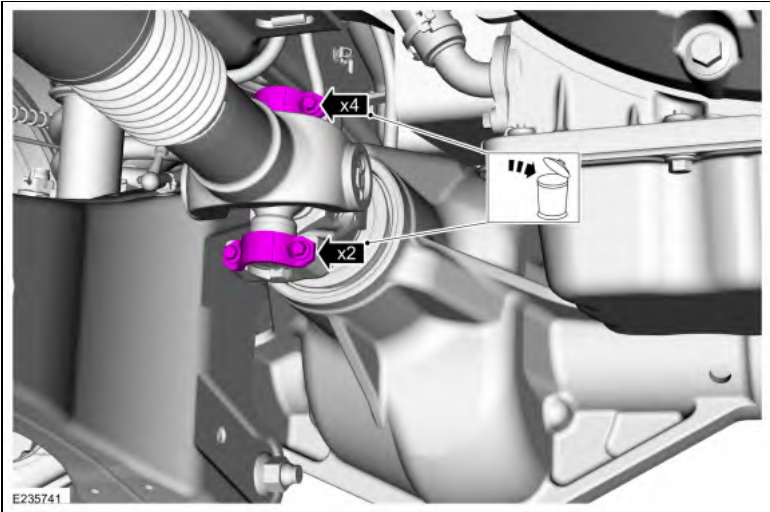
- NOTE:** The front brake pads must be removed for accurate pinion bearing preload drag torque recording and adjustment.

Remove the front brake pads.

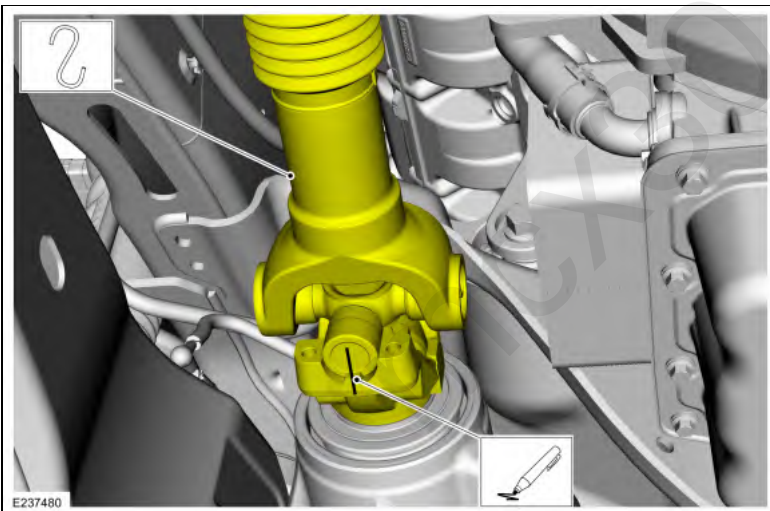
Refer to: Brake Pads - F-250/F-350 (206-03 Front Disc Brake, Removal and Installation).

Refer to: Brake Pads - F-450/F-550 (206-03 Front Disc Brake, Removal and Installation).

- Remove and discard the front driveshaft U-joint to pinion flange retaining strap bolts and retaining straps.

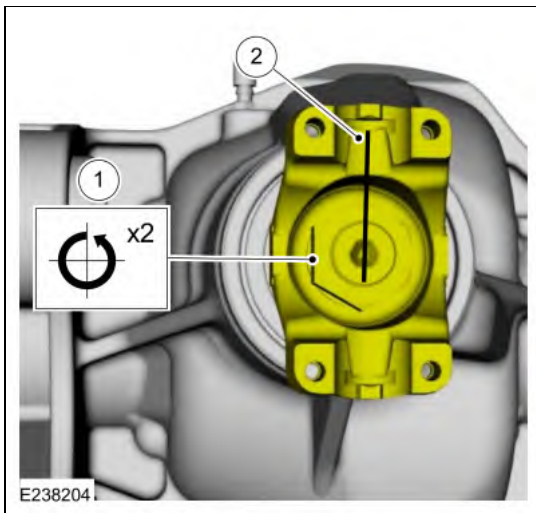


3. Index-mark the front driveshaft U-joint to the pinion flange. Position aside and support the front driveshaft.

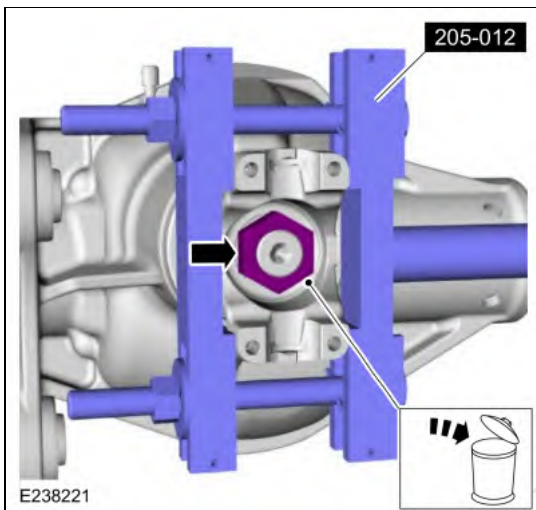


4. **NOTE:** Rotational torque of the drive pinion flange must be measured and recorded using a Nm (lb-in) torque wrench for correct pinion bearing preload when reassembled. This will be the torque-to-turn measurement.

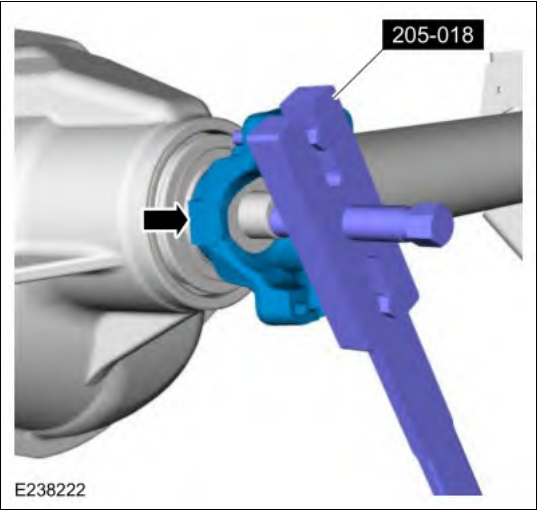
1. Using a dial type torque wrench, measure and record the rotational torque of the drive pinion.
2. Index-mark the pinion flange and the drive pinion gear.



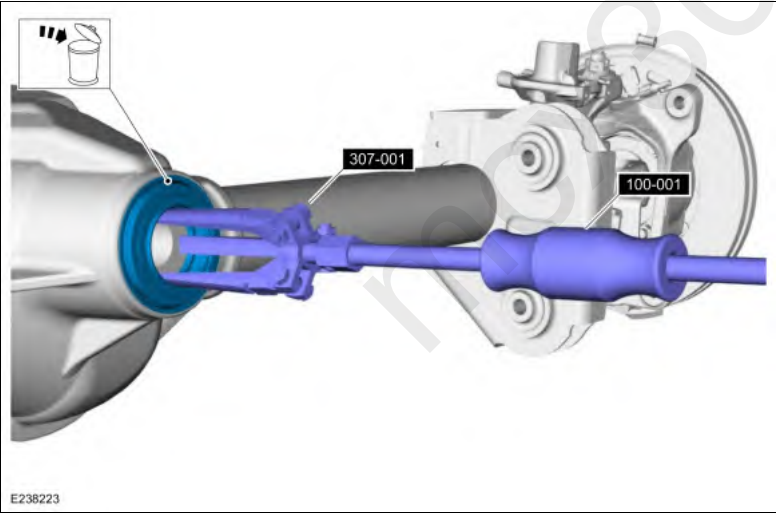
5. Using the special tool, remove and discard the pinion nut.
Use Special Service Tool: 205-012 (T57T-4851-B) Holding Fixture, Drive Pinion Flange.



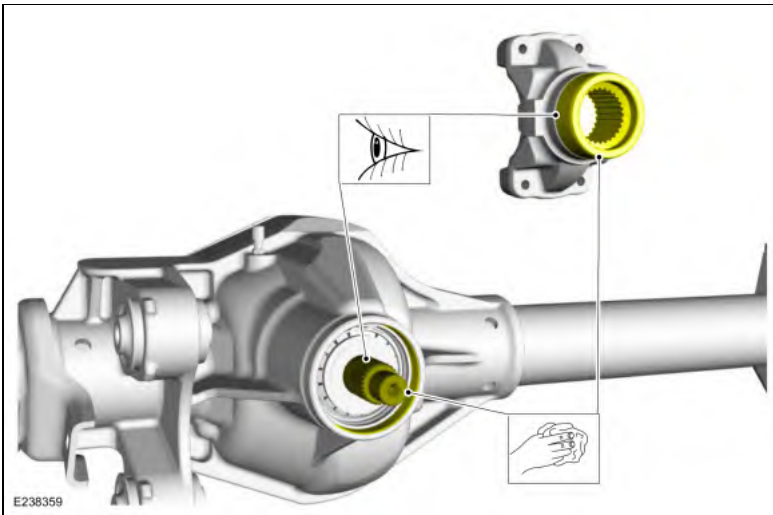
6. Using the special tool, remove the pinion flange.
Use Special Service Tool: 205-018 (T65L-4851-B) Remover, Drive Pinion Flange.



7. Using the special tool, remove and discard the pinion seal.
Use Special Service Tool: 307-001 (TOOL-1175-AC) Remover, Bushing , 100-001 (T50T-100-A) Slide Hammer.

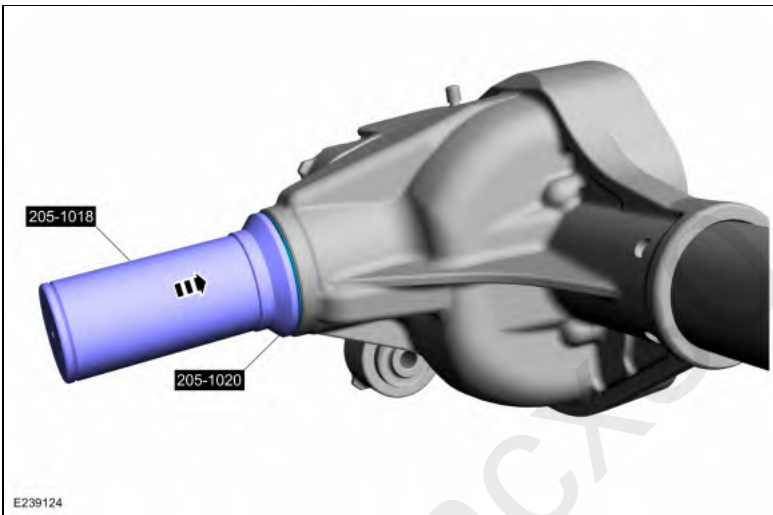


8. Clean and inspect the pinion flange mating surface and pinion seal surface.

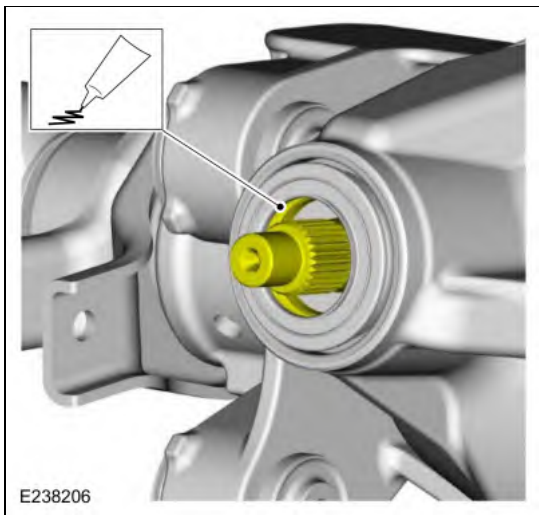


Installation

1. Install the new pinion seal.
Use Special Service Tool: 205-1020 Installer, Pinion Seal.

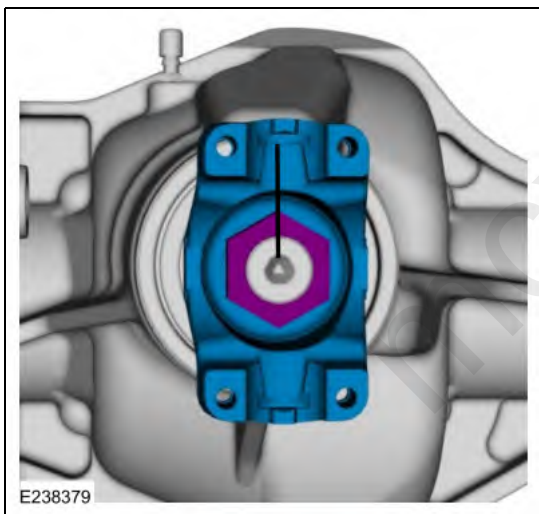


2. Lubricate the pinion seal and pinion splines.
Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)



3. **NOTE:** Align the index marks.

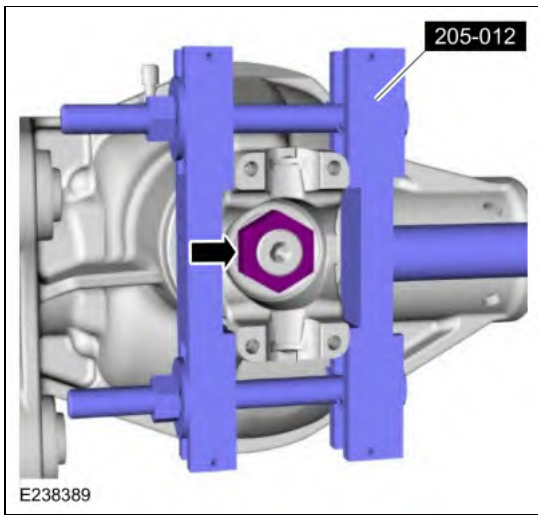
Install the pinion flange and a new washer and pinion nut.



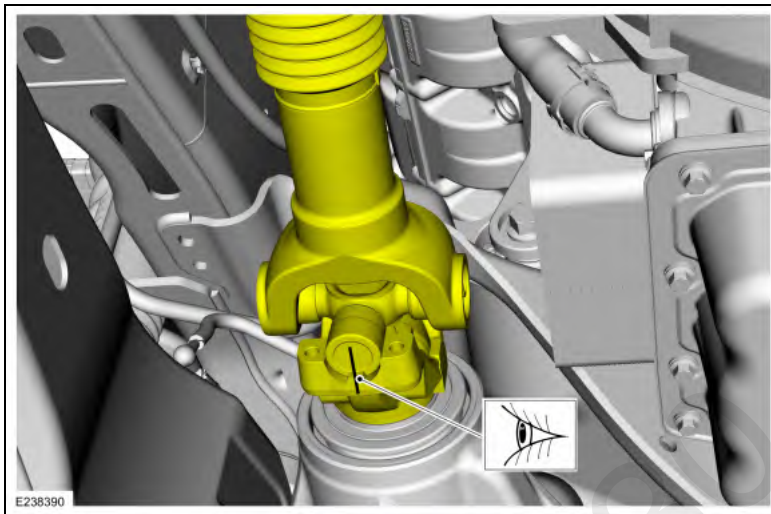
4. **NOTE:** Never back off the pinion nut to reduce preload. If preload reduction is necessary, install a new collapsible spacer and pinion nut.

Tighten the nut.

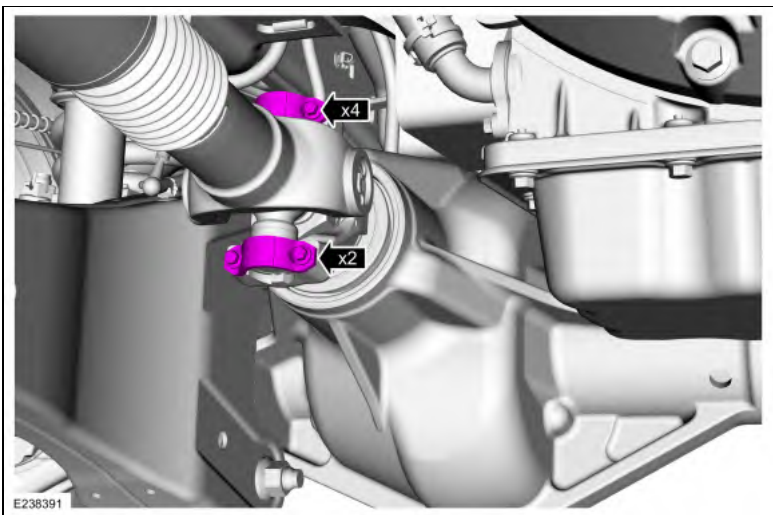
- Use the special tool to prevent the flange from turning while tightening the nut. Remove the special tool when taking pinion bearing torque preload readings.
- Take frequent pinion bearing torque preload readings.
- The final reading must be 0.56 Nm (5 lb-in) more than the initial reading taken during removal.



5. Align the index marks and position back the front driveshaft.



6. Install new retainers and new bolts.
Torque: 26 lb.ft (35 Nm)



7. Check the front differential fluid level.
Refer to: Differential Fluid Level Check (205-03 Front Drive Axle/Differential, General Procedures).
8. Install the front brake pads.
Refer to: Brake Pads - F-250/F-350 (206-03 Front Disc Brake, Removal and Installation).
Refer to: Brake Pads - F-450/F-550 (206-03 Front Disc Brake, Removal and Installation).