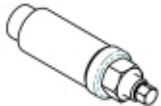



205-02 Rear Drive Axle/Differential - Vehicles With: Dana M220
Removal and Installation

2019 Ranger
Procedure revision date: 11/27/2018

Drive Pinion Flange

Special Tool(s) / General Equipment

 <p>E294704</p>	<p>205-1055 Installer, Companion Flange</p>
 <p>E232132</p>	<p>205-126 (T78P-4851-A) Holding Fixture, Drive Pinion Flange</p>
<p>Three Leg Puller</p>	

Materials

Name	Specification
Motorcraft® Thread Sealant with PTFE TA-24-B	WSK-M2G350-A2

Removal

1. **NOTE:** The rear brake pads must be removed for accurate pinion nut drag torque readings.

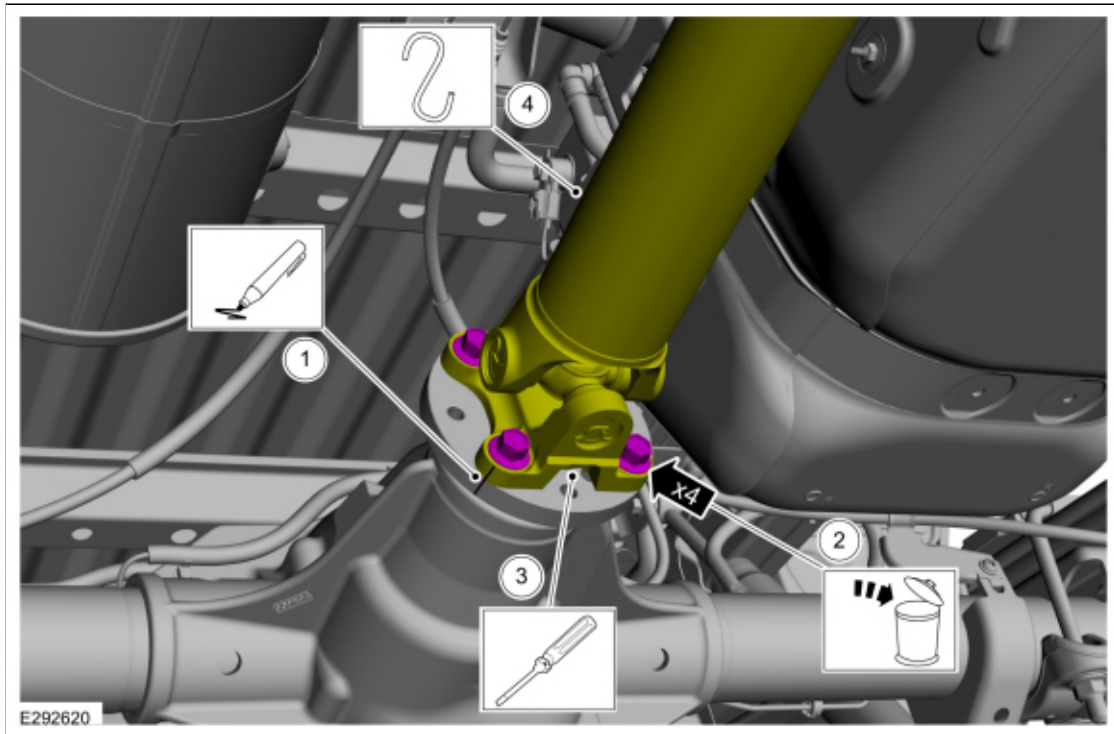
Remove the rear brake pads.

Refer to: [Brake Pads](#) (206-04 Rear Disc Brake, Removal and Installation).

2. Position the rear driveshaft aside.
 1. Index-mark the driveshaft flange to the pinion flange to maintain alignment during installation.
 2. Remove and discard the driveshaft flange to pinion flange bolts.
 3. **NOTICE: The driveshaft flange fits tightly on the flange pilot. Never hammer on the driveshaft or any of its components to disconnect the driveshaft flange from the flange pilot.**

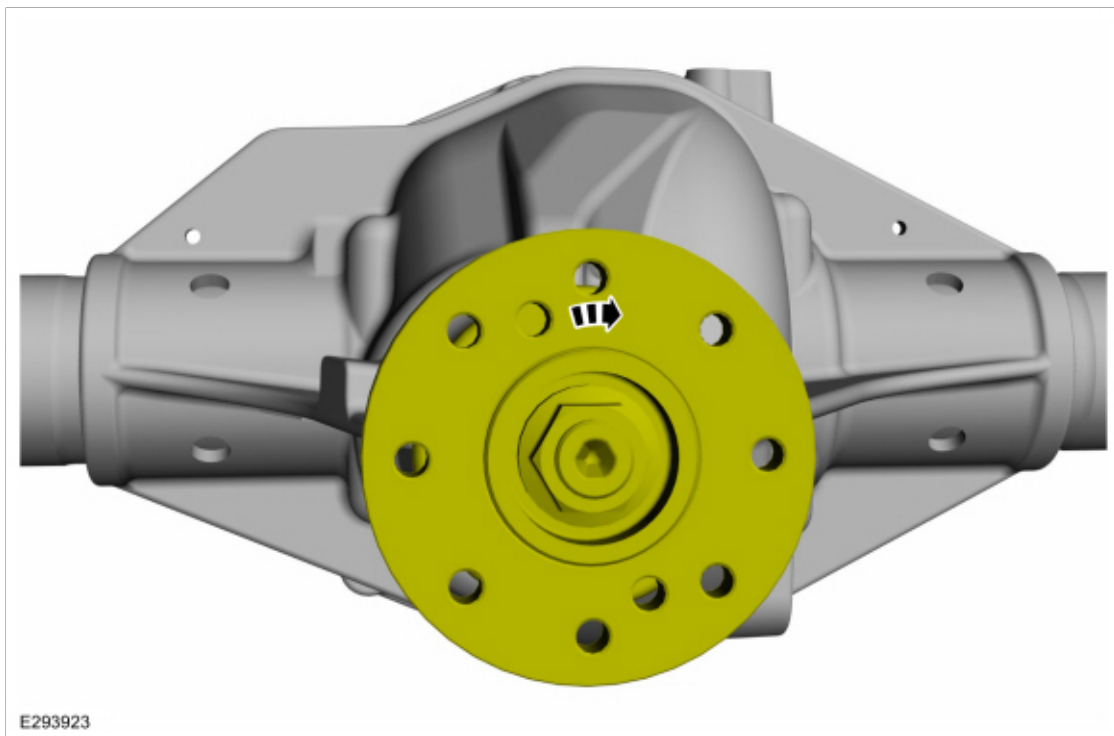
Separate the driveshaft flange from the pinion flange and support the driveshaft.

4. Support the driveshaft.

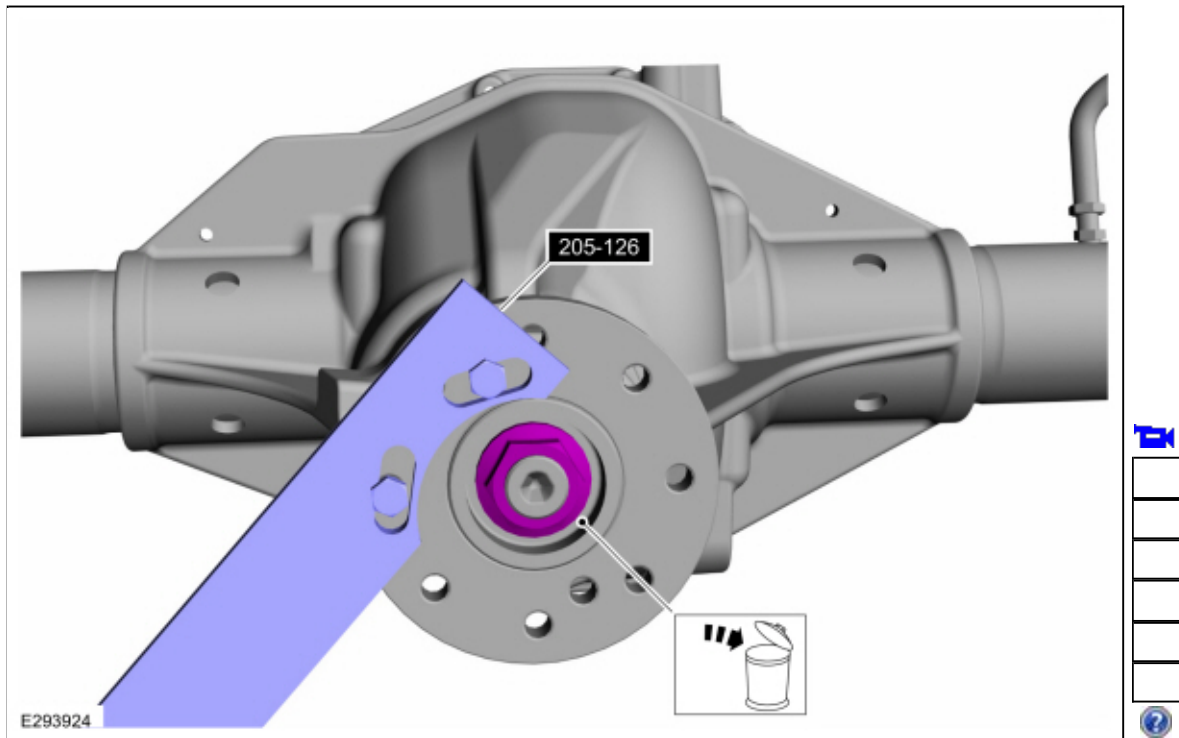


3. **NOTE:** Rotational torque of the drive pinion flange must be measured and recorded using a Nm (lb-in) torque wrench for correct pinion bearing preload when reassembled. This will be the torque-to-turn measurement.

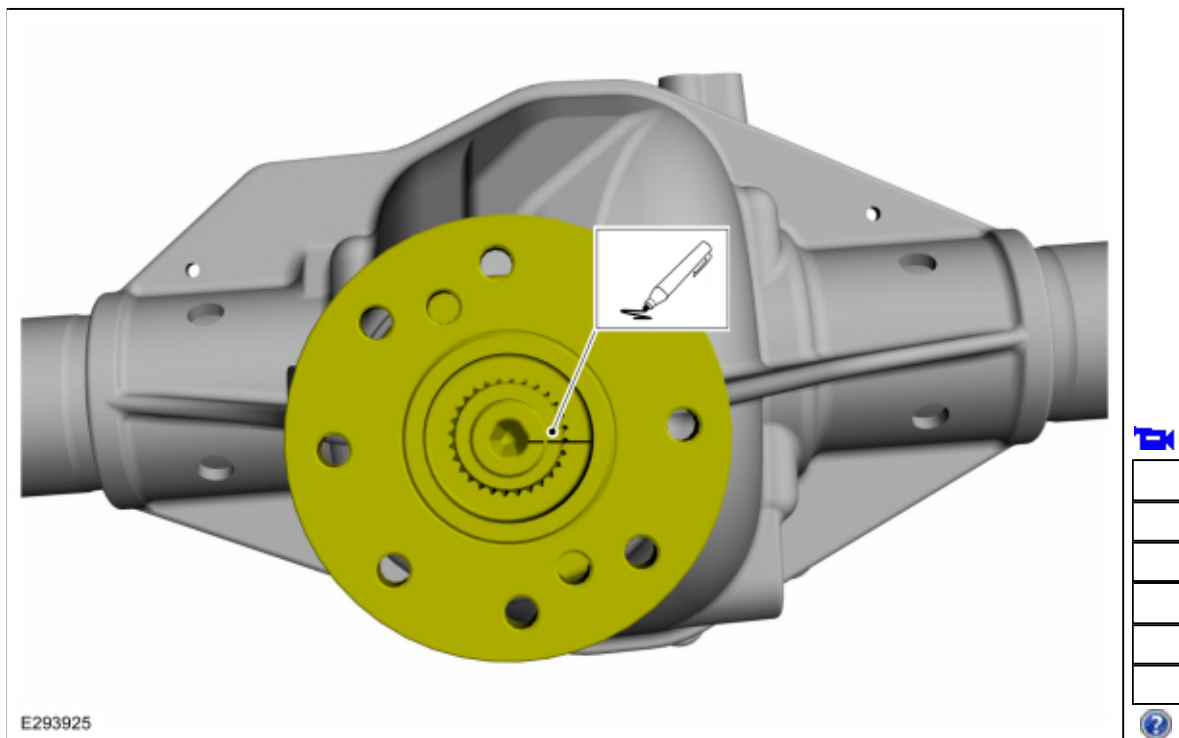
Using a dial type torque wrench, measure and record the rotational torque of the drive pinion.



4. Using the special tool to hold the pinion flange, remove and discard the pinion nut.
Use Special Service Tool: [205-126 \(T78P-4851-A\) Holding Fixture, Drive Pinion Flange](#).

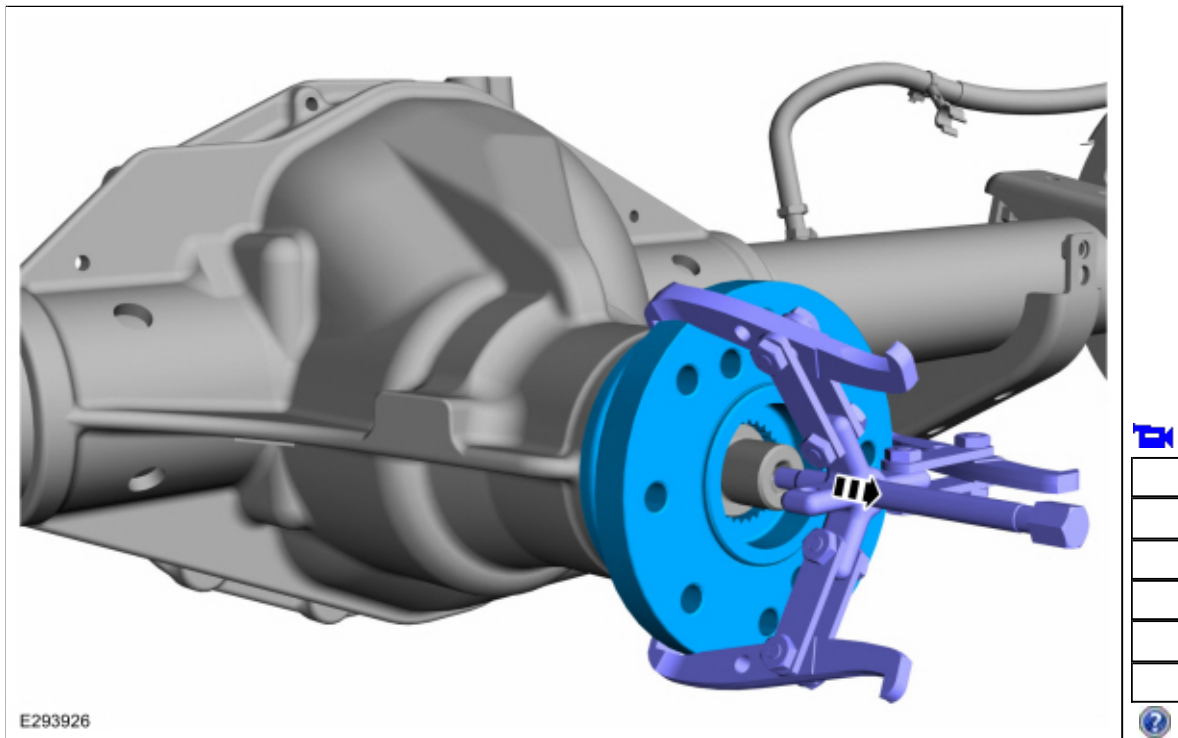


5. Mark the drive pinion flange and the drive pinion stem for reassembly.



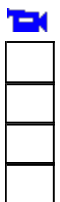
6. Using the general equipment, remove the pinion flange.

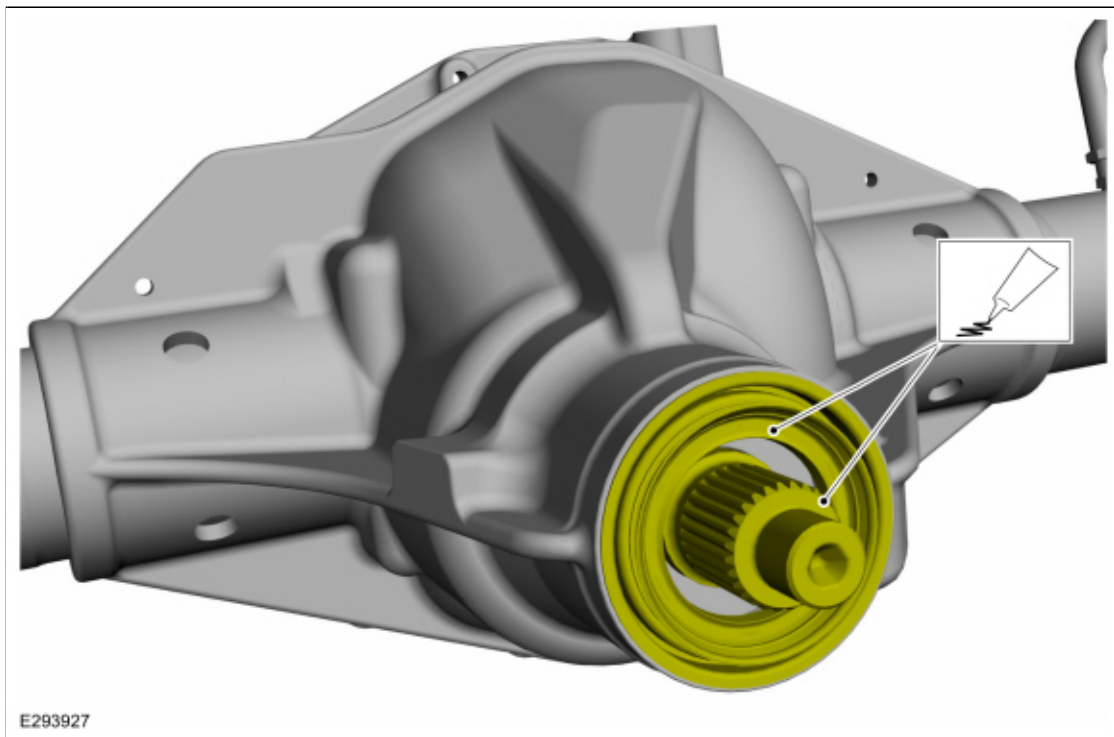
Use the General Equipment: Three Leg Puller



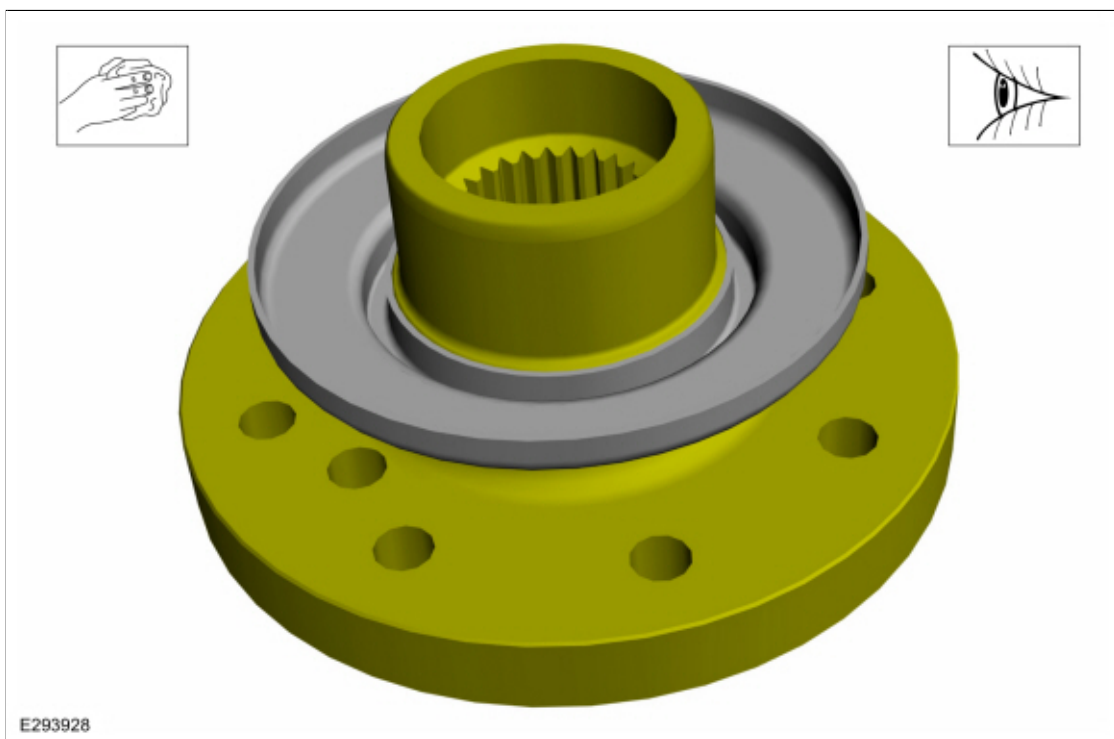
Installation

1. If necessary.
Install a new drive pinion seal.
Refer to: [Drive Pinion Seal](#) (205-02 Rear Drive Axle/Differential - Vehicles With: Dana M220, Removal and Installation).
2. Lubricate the drive pinion flange mating surfaces with grease.
Material: Motorcraft® Thread Sealant with PTFE / TA-24-B (WSK-M2G350-A2)





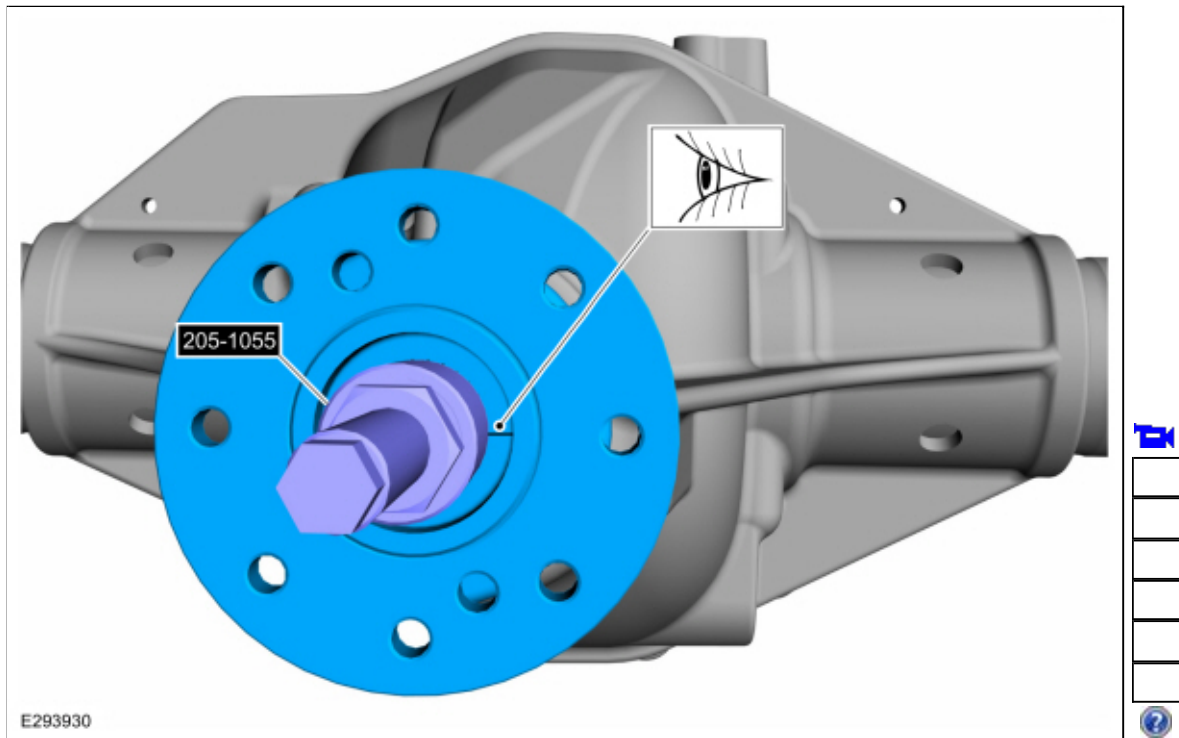
3. Clean and inspect the drive pinion flange journal for damage.



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

Using the special tool, install the pinion flange

Use Special Service Tool: [205-1055 Installer, Companion Flange](#).



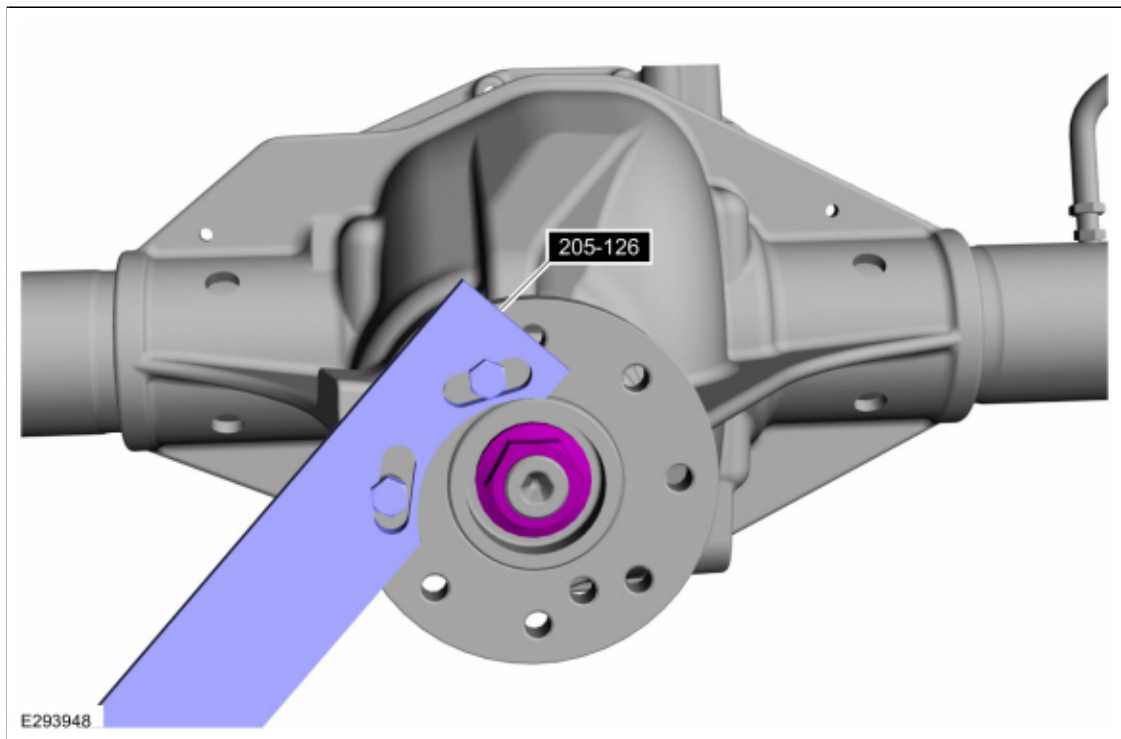
5. **NOTICE:** Under no circumstances is the pinion nut to be backed off to reduce drive pinion bearing preload. If reduced drive pinion bearing preload is required, a new drive pinion collapsible spacer and pinion nut must be installed or damage to the component may occur.

NOTE: When installing the drive pinion flange and pinion nut with no differential carrier installed, the drag torque (torque to turn) should be 2 to 3 Nm (16-29 in-lbs).

Using the special tool to hold the pinion flange, install the new pinion nut.

Use Special Service Tool: [205-126 \(T78P-4851-A\) Holding Fixture, Drive Pinion Flange](#).



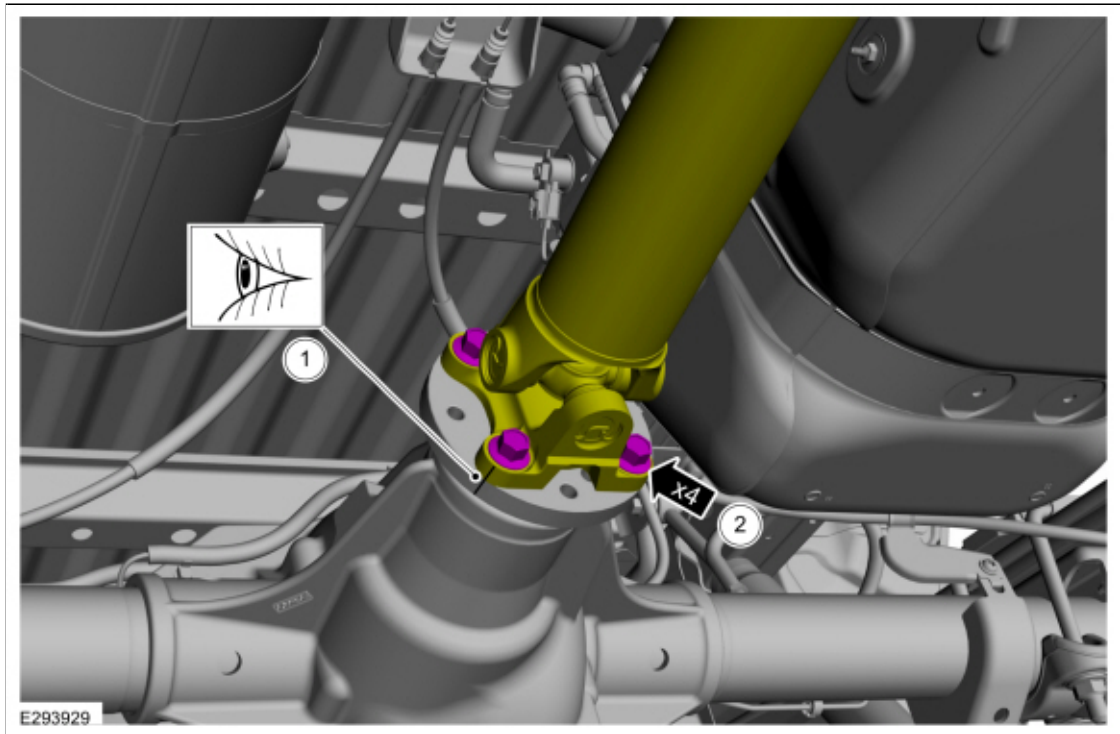


6. **NOTICE:** Make sure that the installation marks are aligned.

NOTE: Make sure that new bolts are installed.

1. Position the driveshaft and align the index-mark on the driveshaft to the rear axle pinion flange.
2. Install the new driveshaft flange to pinion flange bolts.
Torque: 81 lb.ft (110 Nm)





7. Check differential fluid level.
Refer to: [Differential Fluid Level Check](#) (205-02 Rear Drive Axle/Differential - Vehicles With: Dana M220, General Procedures).
8. Install the rear brake pads.
Refer to: [Brake Pads](#) (206-04 Rear Disc Brake, Removal and Installation).

Copyright © 2019 Ford Motor Company

