

Drive Pinion Flange

Special Tool(s) / General Equipment

 E232984	205-1033 Installer, Drive Pinion Flange
 E232132	205-126 (T78P-4851-A) Holding Fixture, Drive Pinion Flange
Three Leg Puller	

Materials

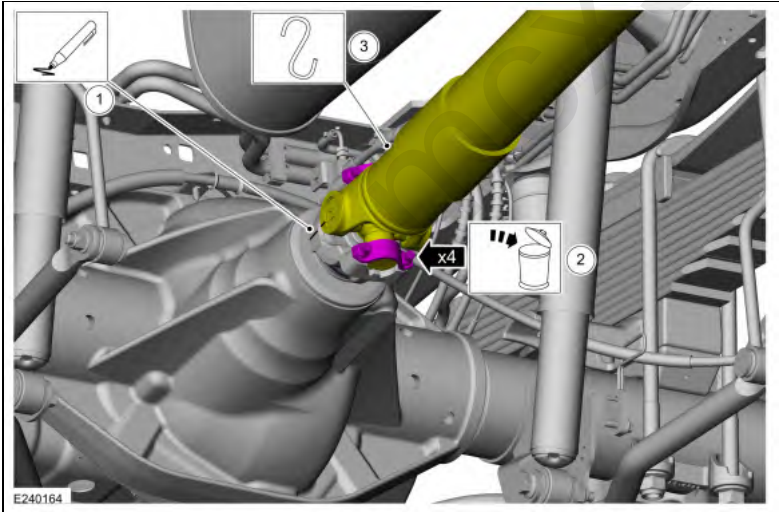
Name	Specification
Motorcraft® Premium Long-Life Grease XG-1-E1	ESA-M1C75-B

Removal

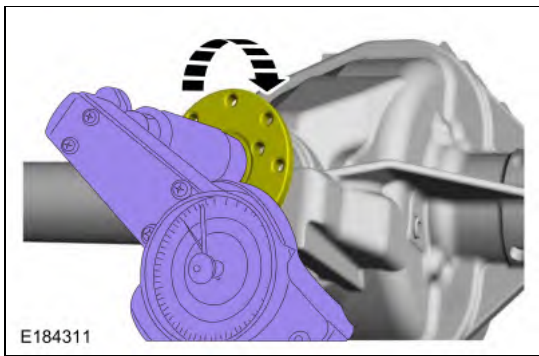
1. **NOTE:** The rear axle shafts must be removed for accurate pinion nut drag torque readings.
- Remove the rear axle shaft.
Refer to: Axle Shaft (205-02C Wheel Hubs and Bearings - Full Floating Axle - Vehicles With: Dana M275/Dana M300, Removal and Installation).
2.

1. Index mark the driveshaft and the pinion flange for reference during installation.

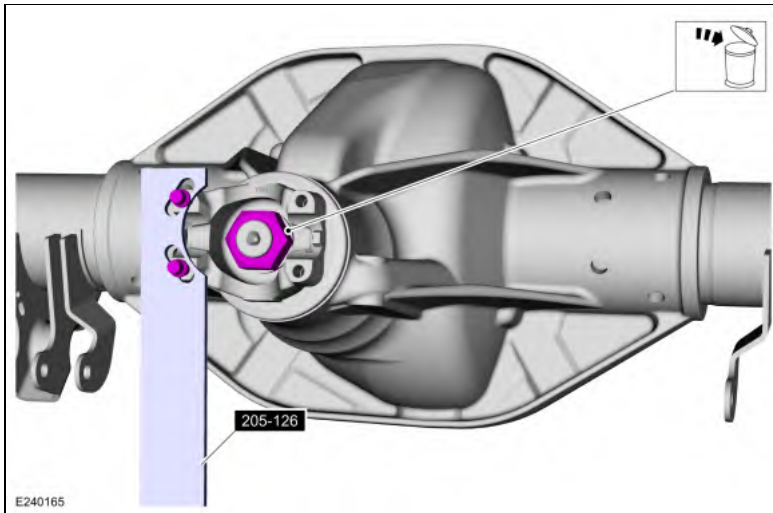
2. Remove and discard the driveshaft to pinion flange bolts and straps.
3. **NOTICE:** The driveshaft flange fits tightly on the flange pilot. Never hammer on the driveshaft or any of its components to disconnect the driveshaft flange from the flange pilot.
- Support the driveshaft.



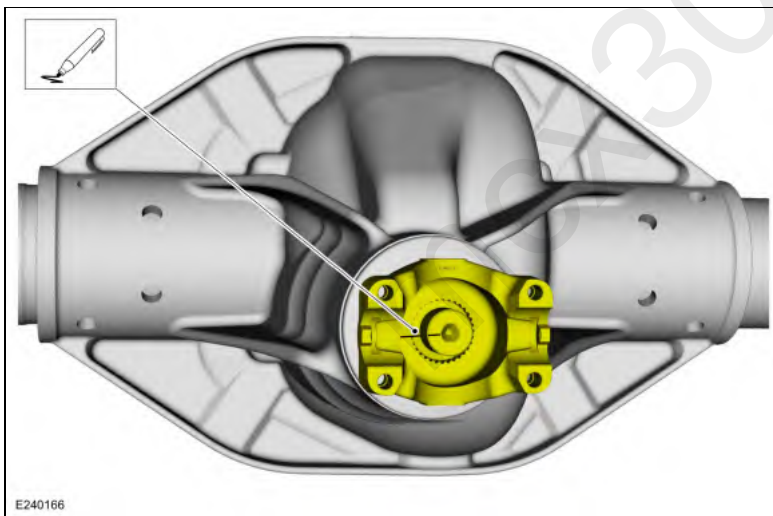
3. **NOTE:** Rotational torque of the drive pinion flange must be measured and recorded using a Nm (lb-in) torque wrench for correct pinion bearing preload when reassembled. This will be the torque-to-turn measurement.
- Using a dial type torque wrench, measure and record the rotational torque of the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



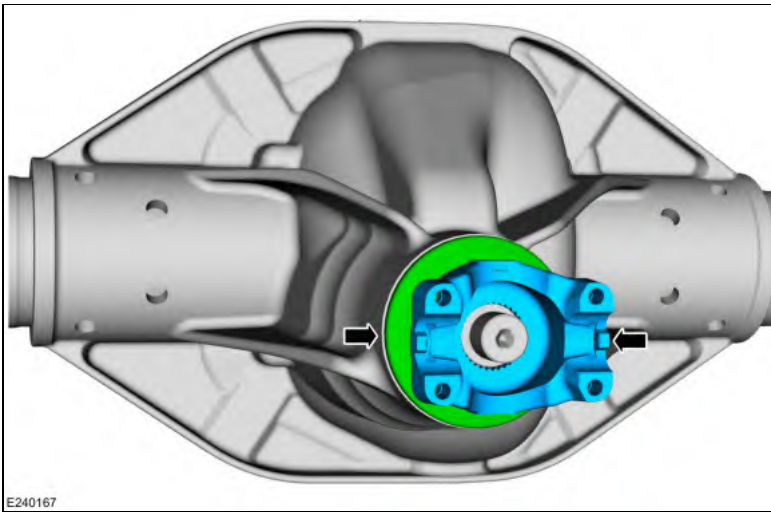
4. Using the special tool to hold the pinion flange, remove and discard the pinion nut.
Use Special Service Tool: 205-126 (T78P-4851-A) Holding Fixture, Drive Pinion Flange.



5. Index mark the drive pinion flange and the drive pinion stem for reassembly.

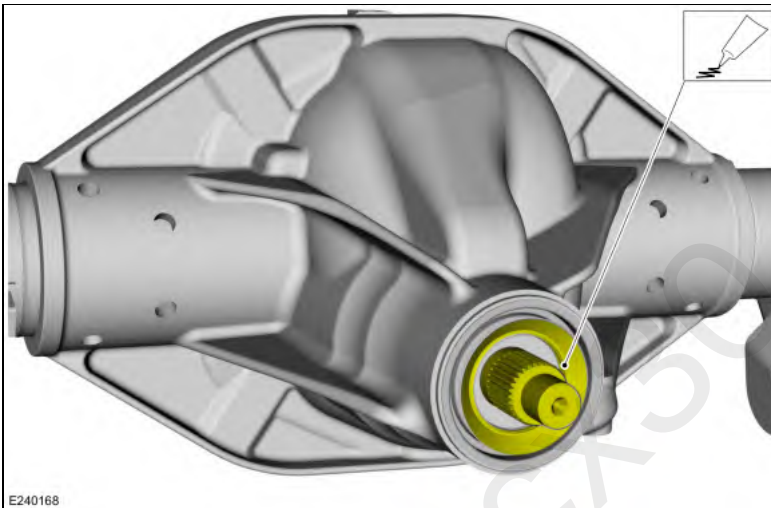


6. Using general equipment, remove the pinion flange and deflector.
Use the General Equipment: Three Leg Puller



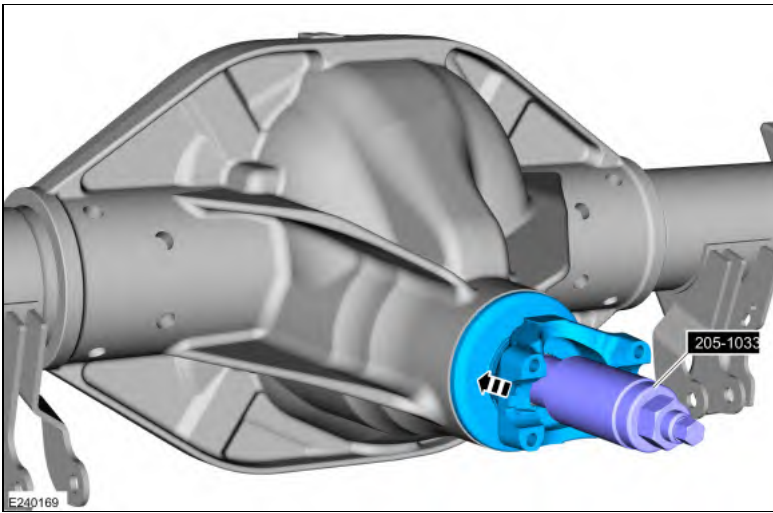
Installation

1. If necessary, install a new drive pinion seal.
Refer to: Drive Pinion Seal (205-02B Rear Drive Axle/Differential - Vehicles With: Dana M300, Removal and Installation).
2. Lubricate the drive pinion flange mating surfaces with grease.
Material: Motorcraft® Premium Long-Life Grease / XG-1-E1 (ESA-M1C75-B)



3. **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: 205-1033 Installer, Drive Pinion Flange.



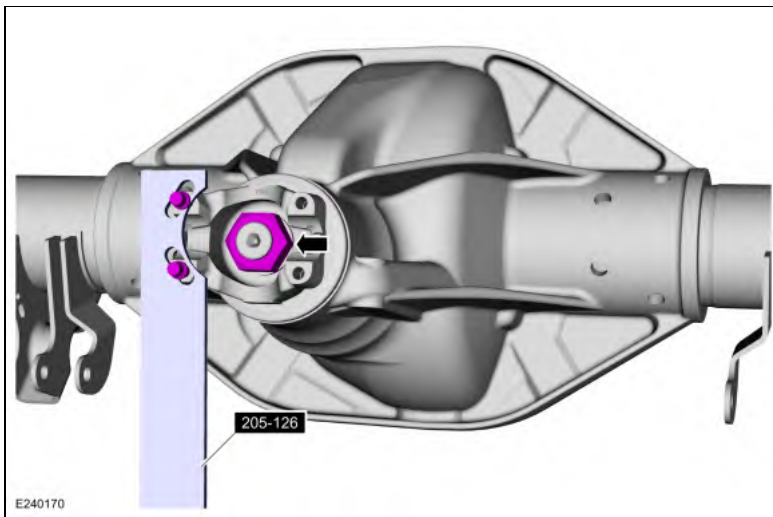
4. **NOTICE:** Under no circumstances is the pinion nut to be backed off to reduce drive pinion bearing preload. If reduced drive pinion bearing preload is required, a new drive pinion collapsible spacer and pinion nut must be installed or damage to the component may occur.

NOTE: When installing the drive pinion flange and pinion nut with no differential carrier installed, the drag torque (torque to turn) should be 2.26 to 3.58 Nm (20-32 in-lbs).

NOTE: Refer to the rotational torque previously recorded with the Nm (lb-in) torque wrench. Tighten the pinion nut in small increments until it is within 0.3 Nm (3 lb-in) of the reference measurement. If 0.3 Nm (3 lb-in) is exceeded, then the collapsible spacer will be damaged and a new collapsible spacer will be required.

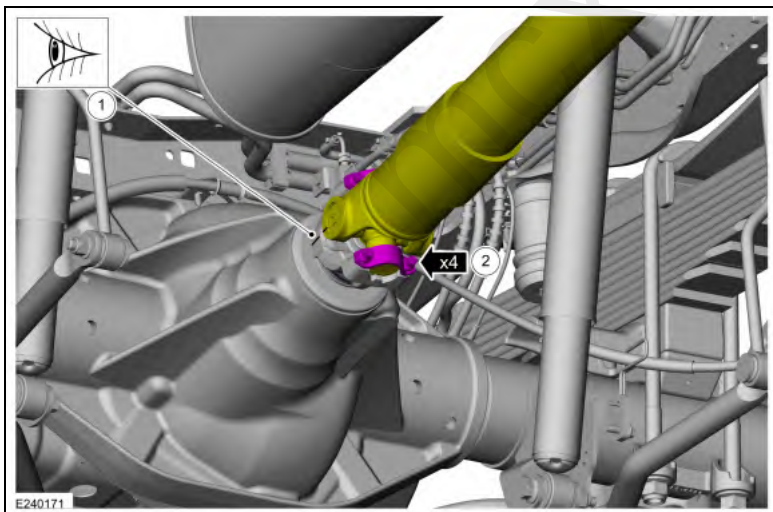
Using the special tool to hold the pinion flange, install the new pinion nut.

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



5.
 1. Align the index-mark on the driveshaft to the rear axle pinion flange.
 2. Install the new driveshaft-to-pinion flange bolts.

Torque: 46 lb.ft (63 Nm)



6. Install the rear axle shaft.
Refer to: Axle Shaft (205-02C Wheel Hubs and Bearings - Full Floating Axle - Vehicles With: Dana M275/Dana M300, Removal and Installation).
7. Check the differential fluid level.
Refer to: Differential Fluid Level Check (205-02B Rear Drive Axle/Differential - Vehicles With: Dana M300, General Procedures).

