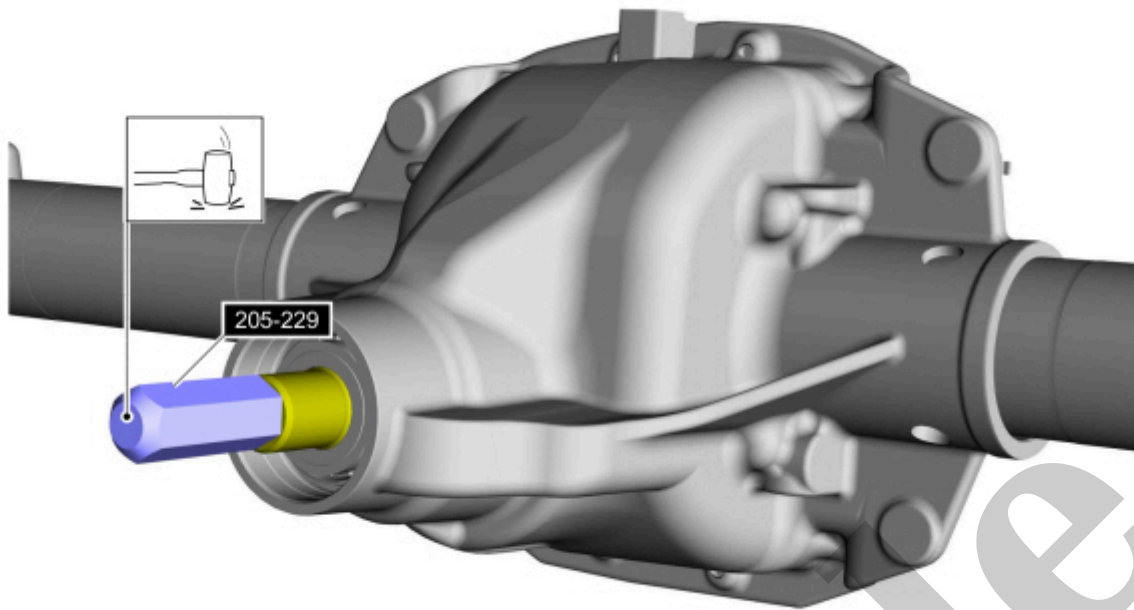


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## 2003 FORD Escape OEM Service and Repair Workshop Manual

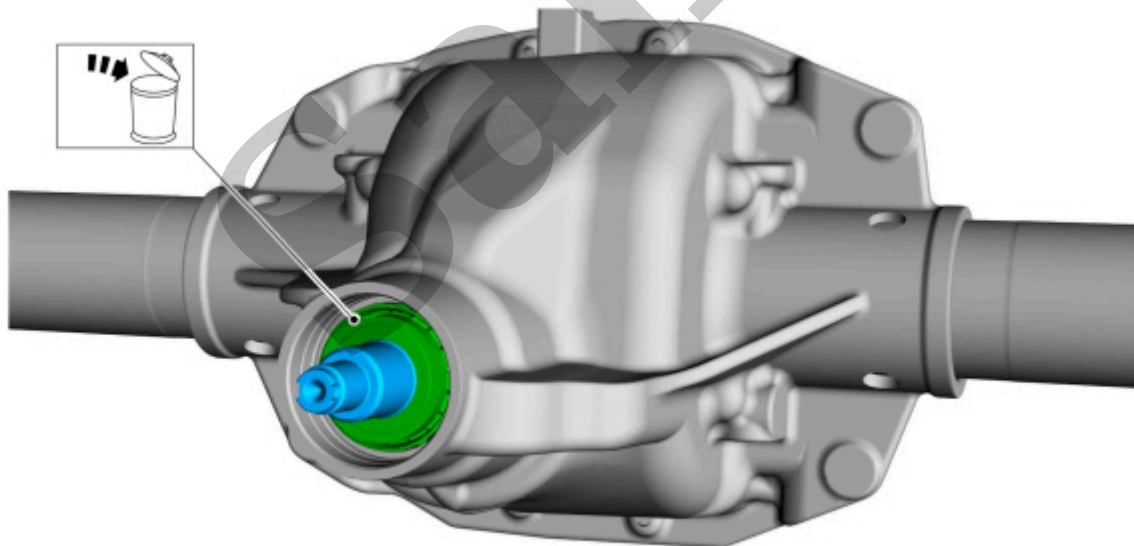
[Go to manual page](#)



E195179

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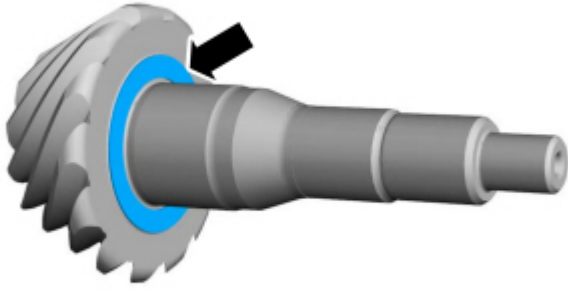
5. Remove the drive pinion and remove and discard the drive pinion outer bearing.



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6. Remove and discard the drive pinion collapsible spacer.



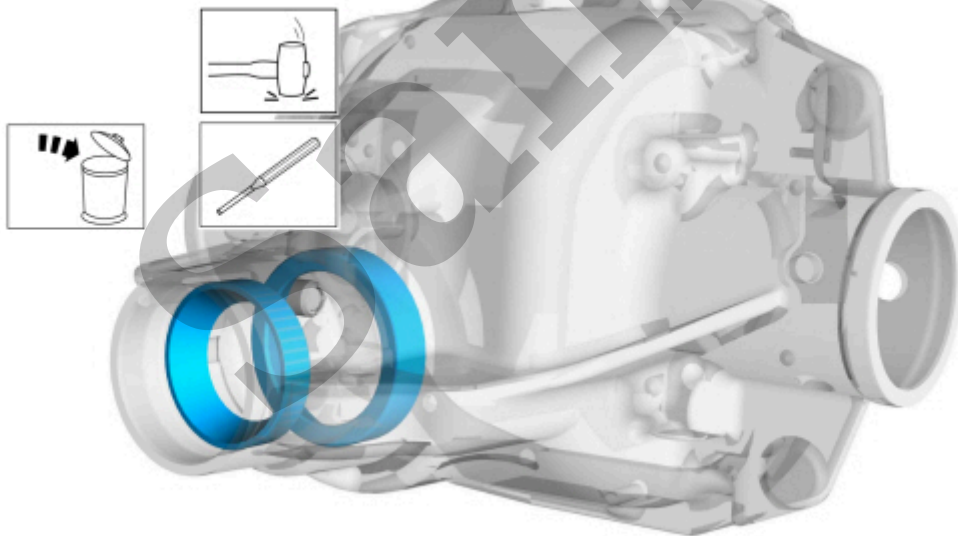
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9. Using the general equipment, remove and discard the drive pinion bearing cups.

Use the General Equipment: Punch

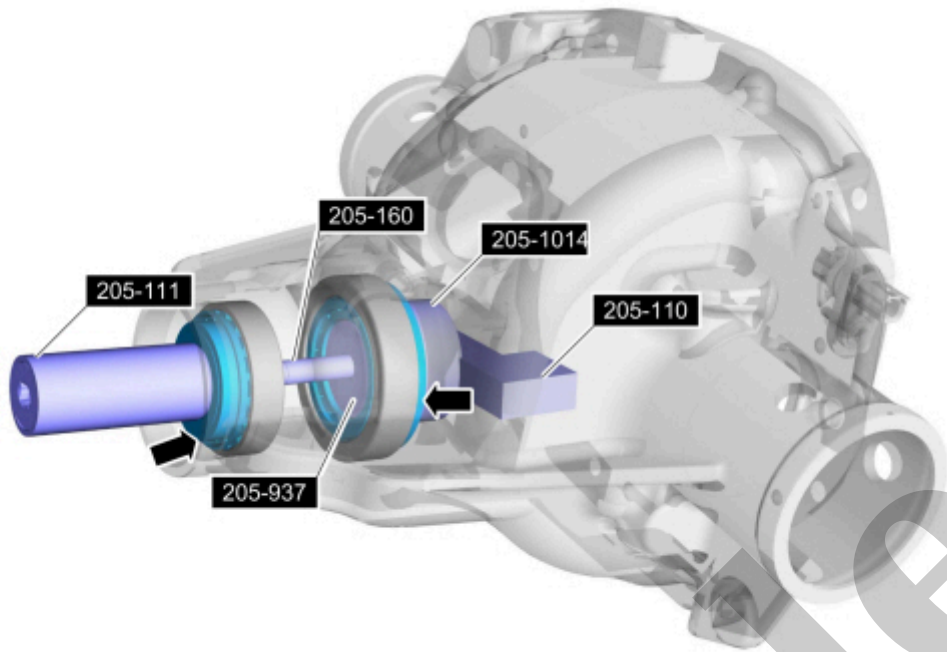
Use the General Equipment: Copper Hammer



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## Installation



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3. • **NOTE**

This step duplicates final drive pinion bearing preload

Tighten the special tool to the specified torque.

**Use Special Service Tool** : 205-111 (T76P-4020-A11) Handle

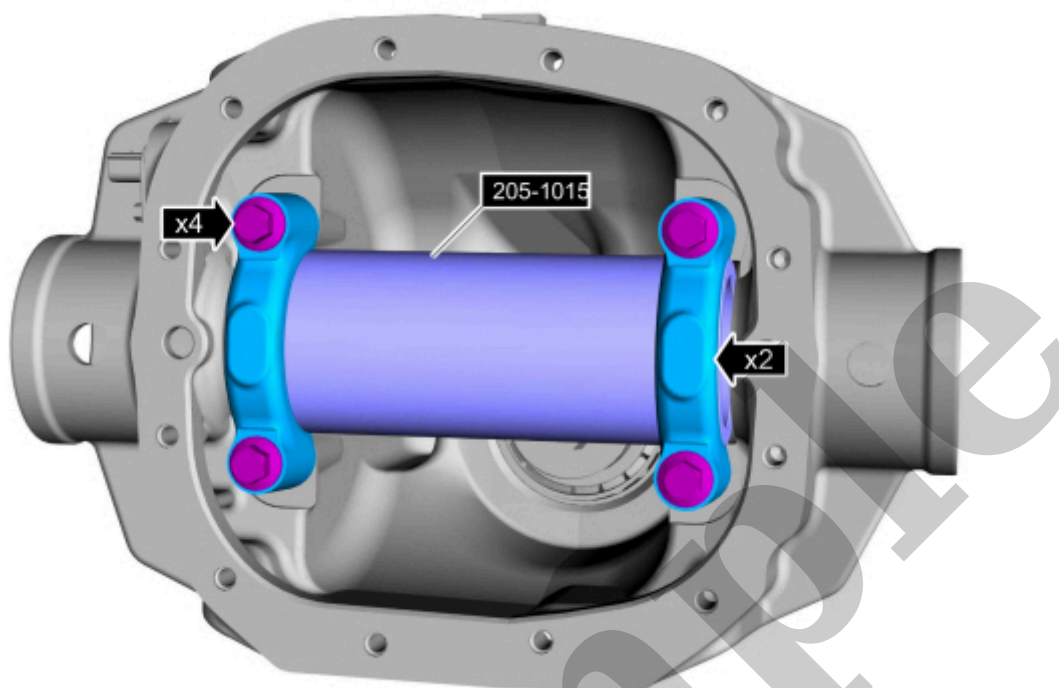
**Torque** : 18 lb.in (2 Nm)

- Slowly rotate and record the rotational torque readings.

5. Position the special tool. Install the differential bearing caps and differential bearing cap bolts.

**Use Special Service Tool** : 205-1015 Gauge Tube

**Torque** : 83 lb.ft (112 Nm)



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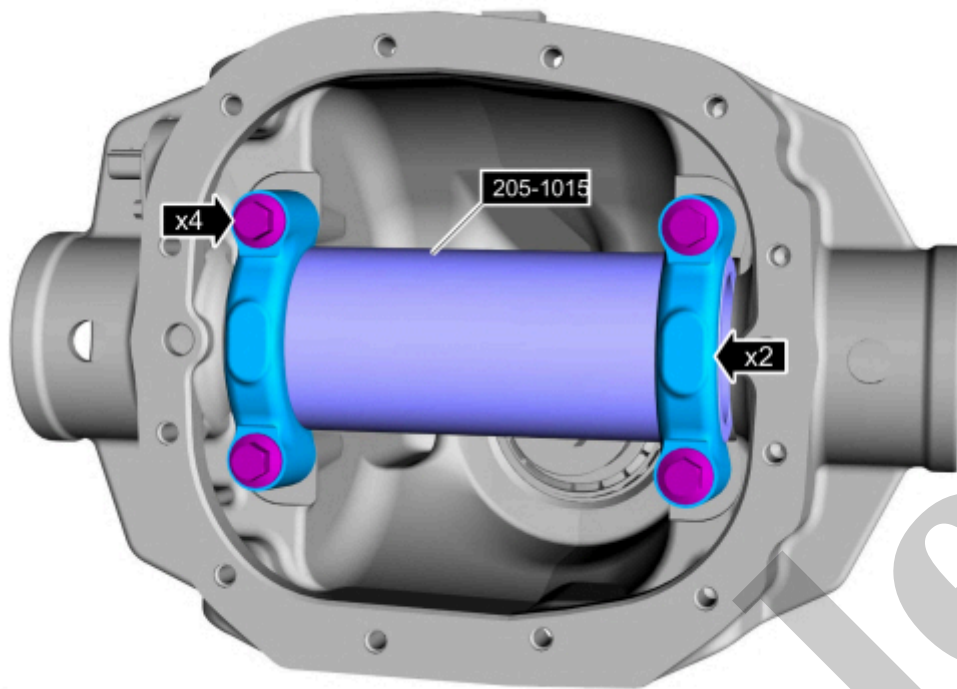
6. **NOTE**

Drive pinion bearing adjustment shims must be flat and clean.

**NOTE**

A slight drag should be felt for correct drive pinion bearing adjustment shim selection. Do not attempt to force the drive pinion bearing adjustment shim between the gauge block and the gauge tube. This will minimize selection of a drive pinion bearing adjustment shim thicker than required, which results in a deep tooth contact in the final assembly of integral axle assemblies.

Use a drive pinion bearing adjustment shim as a gauge for drive pinion bearing adjustment shim selection.

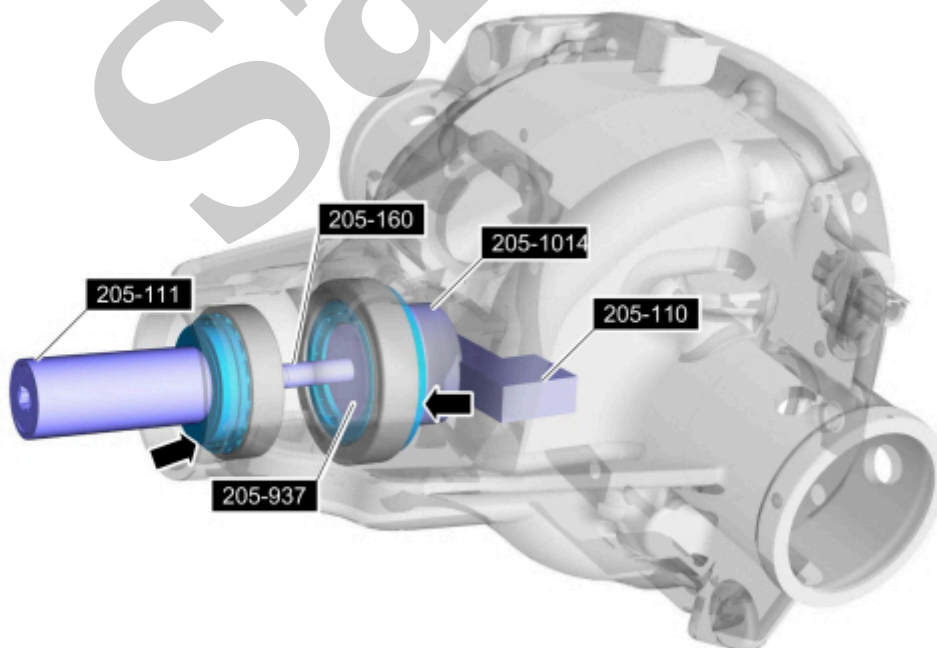


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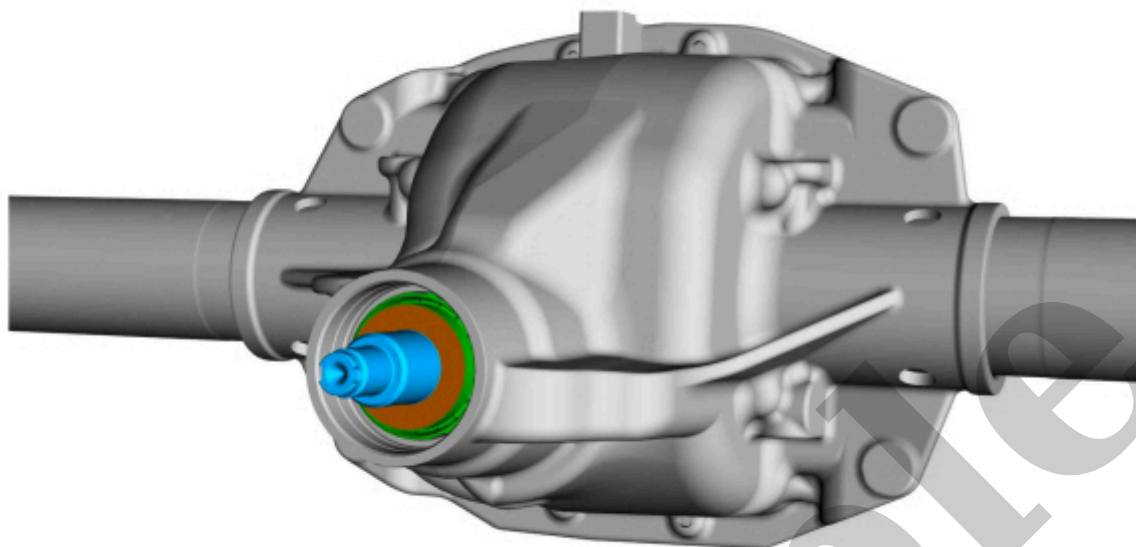
8. Remove the special tools.

**Use Special Service Tool** : 205-110 (T76P-4020-A10) Gauge Block , 205-111 (T76P-4020-A11) Handle , 205-160 (T80T-4020-F43) Adapter for 205-S156 Pinion Depth Gauge , 205-937 Adapter, Pinion Aligning , 205-1014 Gauge Disc



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11. Install the new outer differential pinion bearing, outer differential pinion shim and the differential pinion.



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## 12. 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).

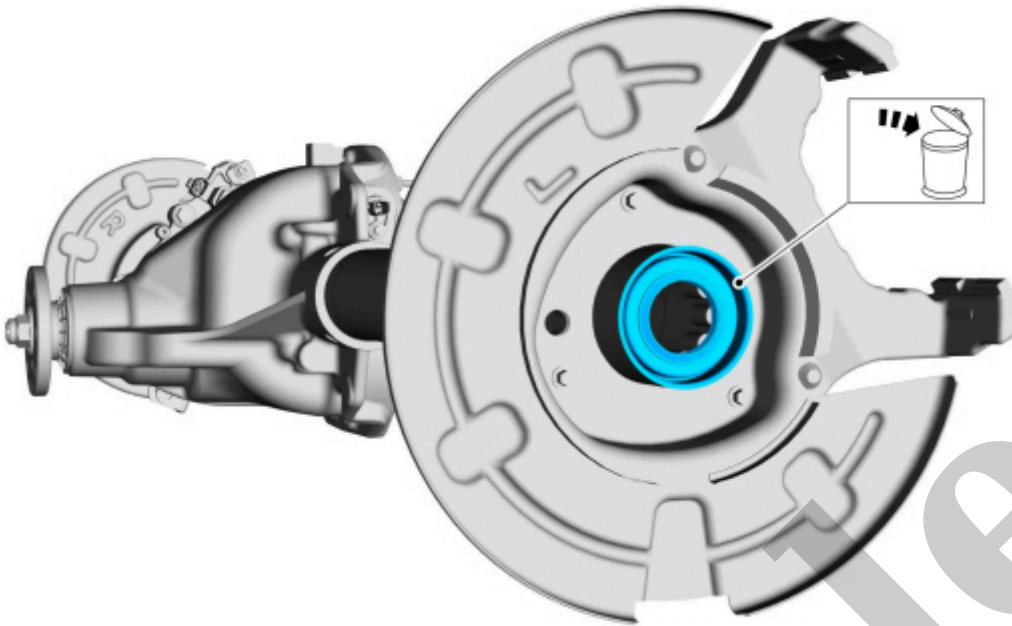
Install the drive pinion seal.

Refer to: [Drive Pinion Seal](#)(205-02A Rear Drive Axle/Differential - Vehicles With: Ford 8.8 Inch Ring Gear, Removal and Installation).

13. Install the differential carrier.

Refer to: [Differential Carrier](#)(205-02A Rear Drive Axle/Differential - Vehicles With: Ford 8.8 Inch Ring Gear, Removal and Installation).

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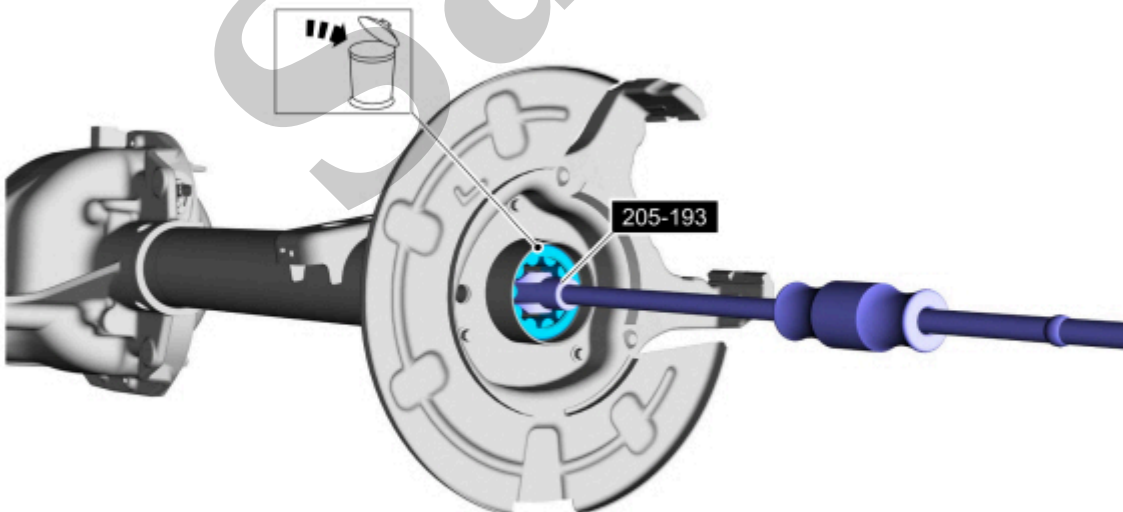
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3. Using the special tool and a slide hammer, remove and discard the rear wheel bearing.

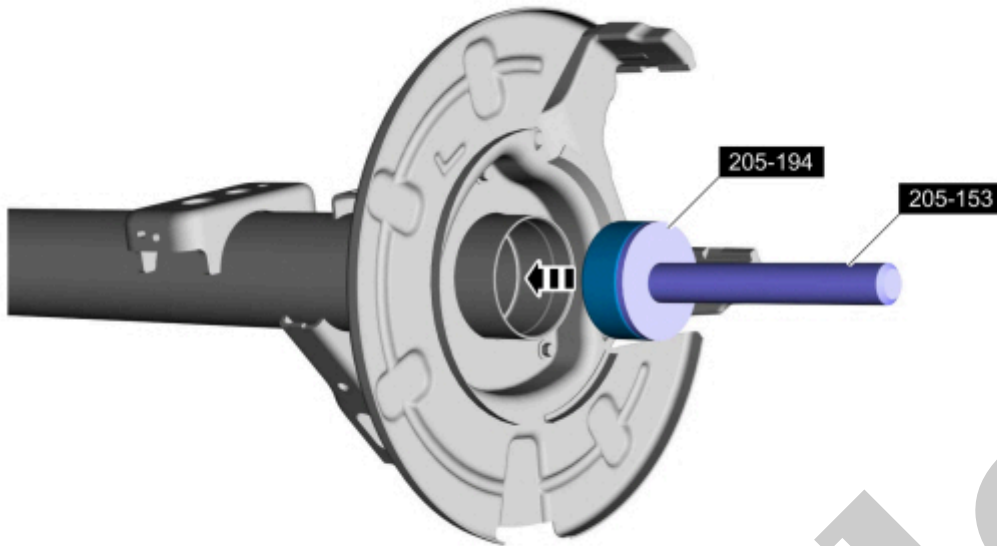
**Use Special Service Tool** : 205-193 (T83T-1225-A) Remover, Axle Bearing

Use the General Equipment: Slide Hammer



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1. Lubricate the axle shaft seal lip.

**Material** : Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)

2. Using the special tools install the new axle shaft seal.

**Use Special Service Tool** : 205-153 (T80T-4000-W) Handle , 205-381 (T97T-1177-A) Installer, Rear Axle Oil Seal

## Specifications

<b>205-02A Rear Drive Axle/Differential - Vehicles With: Ford 8.8 Inch Ring Gear</b>	<b>2022 F-150</b>
<b>Specifications</b>	<b>Procedure revision date: 03/22/2021</b>

### Specifications

### Capacities

Item	Liters
<b>Material</b> : Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)	1.93L (4.08 pt)
<b>Material</b> : Motorcraft® Premium Long-Life Grease / XG-1-E1 (ESA-M1C75-B)	-
<b>Material</b> : Motorcraft® Ultra Silicone Sealant / TA-29 (WSS-M4G323-A8)	-
<b>Material</b> : Retaining Compound / Loctite® 638™ (WSK-M2G349-A8)	-

### General Specifications

Item	Specification
Available drive pinion bearing adjustment shim in steps of 0.025 mm (0.001 in)	0.381-1.219 mm (0.010-0.038 in)
Maximum axle shaft flange runout	0.076 mm (0.003 in)