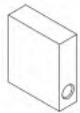
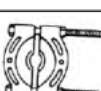


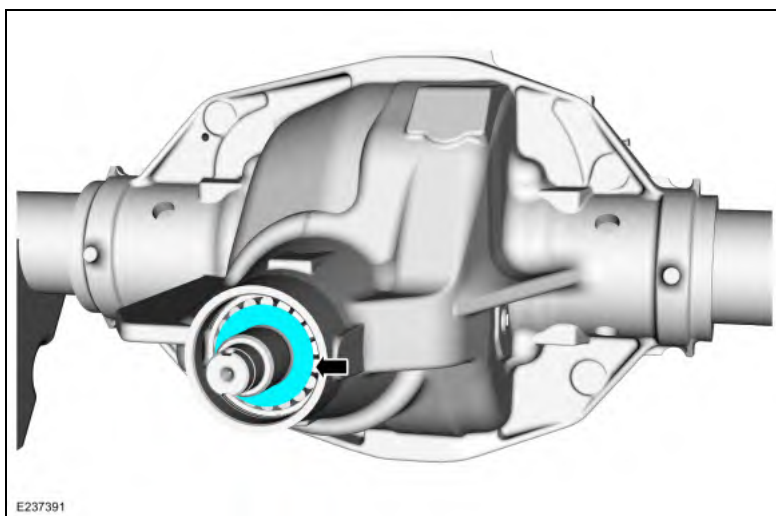
Drive Pinion

Special Tool(s) / General Equipment

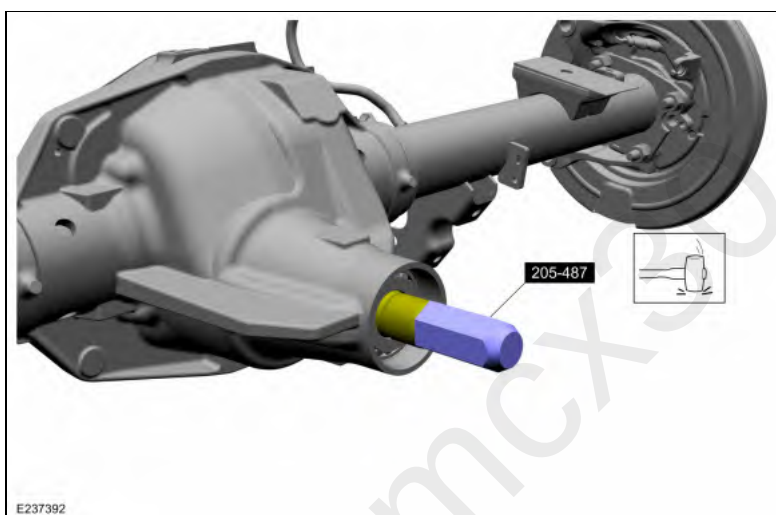
 E234294	205-098 (T75T-1176-A) Drawbar, Rear Axle
 E169395	205-159 (T80T-4020-F42) Adapter for 205-S156 Pinion Depth Gauge T98T-1000-LM-1 TKIT-1998-LM (Navigator)
 E169394	205-160 (T80T-4020-F43) Adapter for 205-S156 Pinion Depth Gauge
 E234318	205-231 (T85T-4616-AH) Installer, Drive Pinion Bearing TKIT-1985-FH-1
 E234319	205-232 (T85T-4621-AH) Installer, Drive Pinion Bearing TKIT-1985-FH-1
 E238613	205-281 (T88T-4020-B) Depth Gauge/Aligner, Drive Pinion (Handle) TKIT-1988-FLM TKIT-1988-F
 E238637	205-423 Depth Gauge, Drive Pinion (10 1/2) TKIT-1999-F/FLM/LT
 E238651	205-487 Protector, Drive Pinion Thread TKIT-1999S-FLM/LT
 E180810	205-937 Adapter, Pinion Aligning TKIT-2009C-F TKIT-2009C-ROW
	205-D038 (D81T-4020-F51) Gauge Tube
	205-D064 (D84L-1123-A) Puller, Bearing
 E180812	308-391 Installer, Input Shaft Bearing Cup TKIT-1999-F/FLM/LT
Rubber Mallet	
Hydraulic Press	
Punch	
Copper Hammer	

Removal

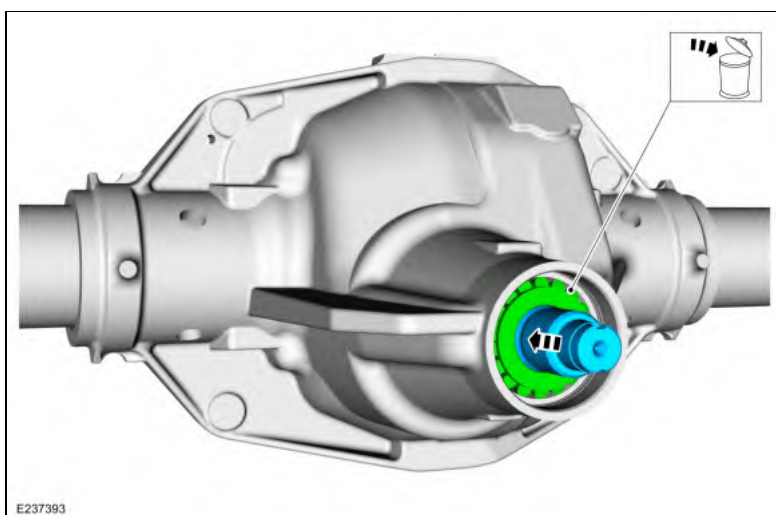
1. Remove the differential carrier.
Refer to: Differential Carrier (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).
2. Remove the drive pinion seal.
Refer to: Drive Pinion Seal (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).
3. Remove the drive pinion outer shim.



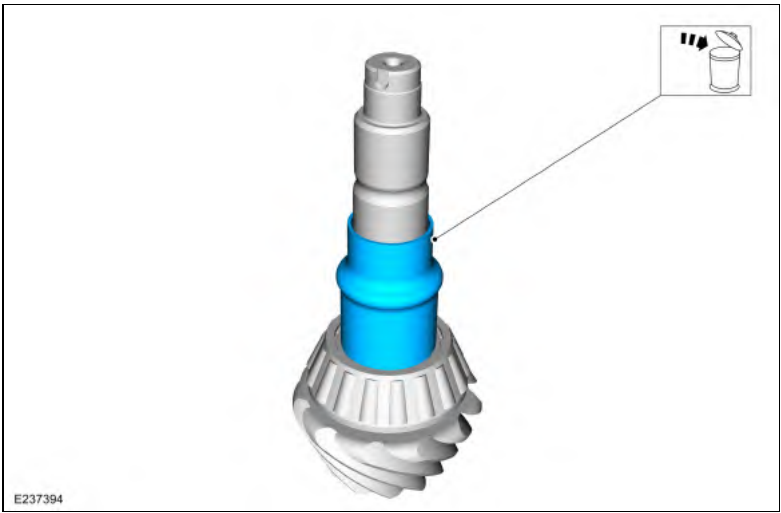
4. Using the special tool and a soft face mallet, tap the drive pinion free of the of the drive pinion outer bearing.
Use Special Service Tool: 205-487 Protector, Drive Pinion Thread.
Use the General Equipment: Rubber Mallet



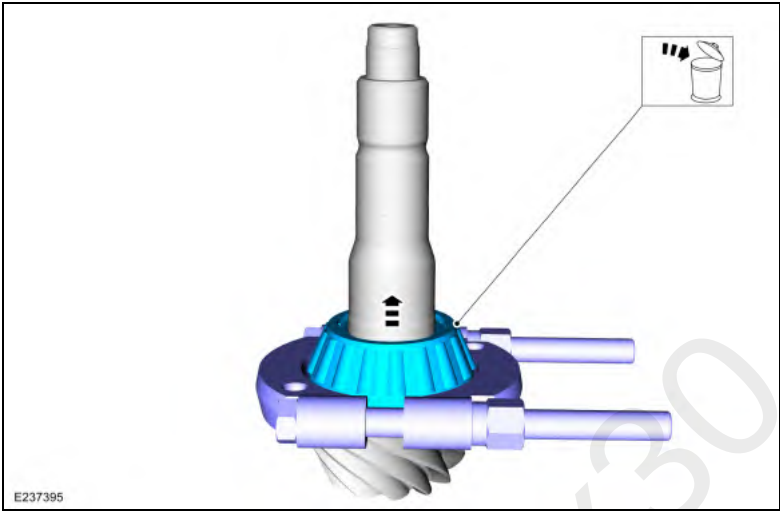
5. Remove the drive pinion and remove and discard the drive pinion outer bearing.



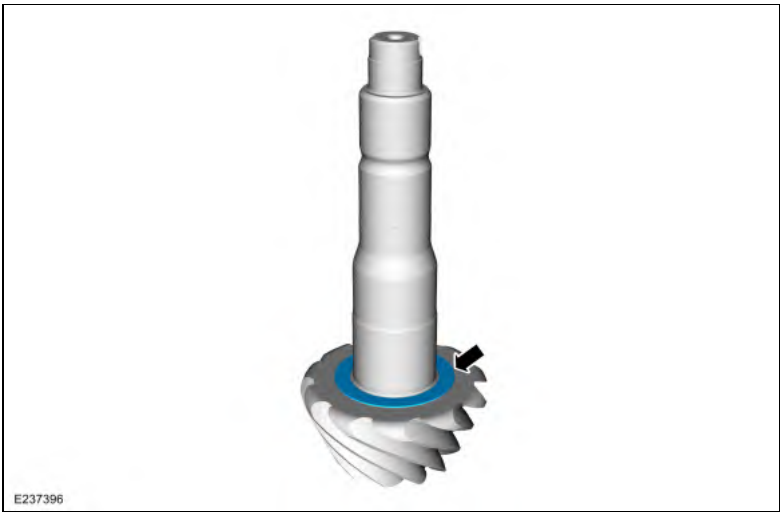
6. Remove and discard the drive pinion collapsible spacer.



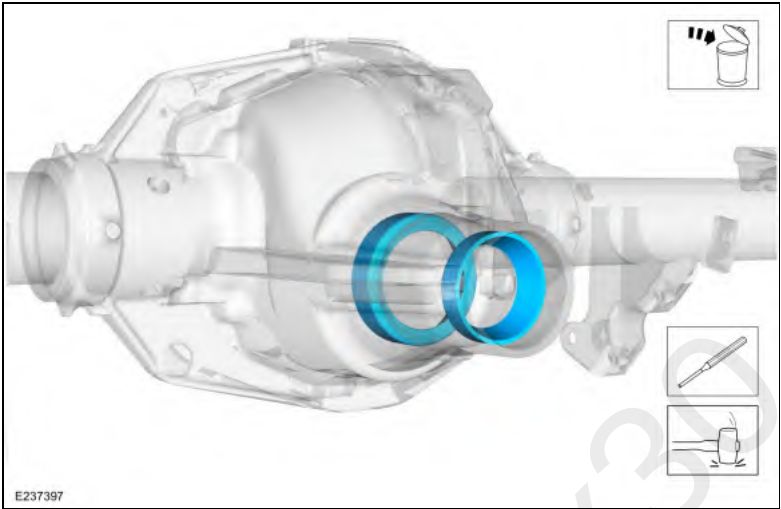
7. Using the bearing puller and a hydraulic press, remove and discard the inner drive pinion bearing.
Use Special Service Tool: 205-D064 (D84L-1123-A) Puller, Bearing.
Use the General Equipment: Hydraulic Press



8. Remove the inner drive pinion bearing shim.



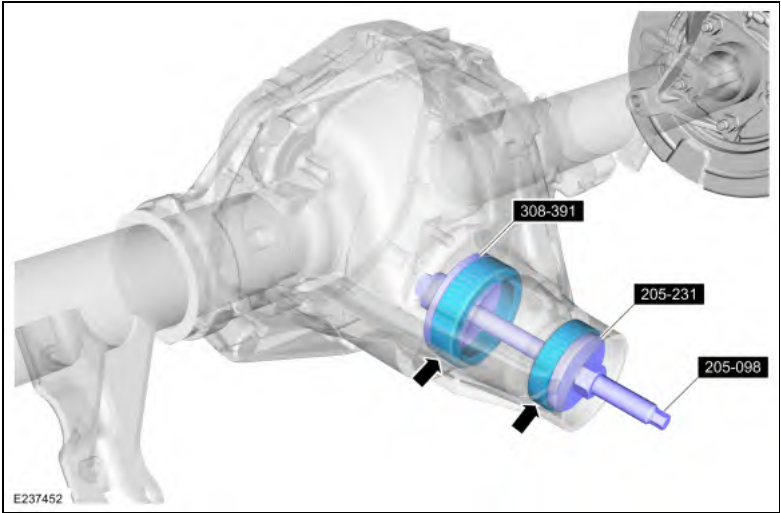
9. Using the general equipment, remove and discard the drive pinion bearing cups.
 Use the General Equipment: Punch
 Use the General Equipment: Copper Hammer



Installation

1. **NOTE:** Make sure the drive pinion bearing cups are seated correctly or damage to the components may occur.

Using the special tools, install the new inner and new outer drive pinion bearing cups.
 Use Special Service Tool: 205-098 (T75T-1176-A) Drawbar, Rear Axle. , 205-231 (T85T-4616-AH) Installer, Drive Pinion Bearing. , 308-391 Installer, Input Shaft Bearing Cup.



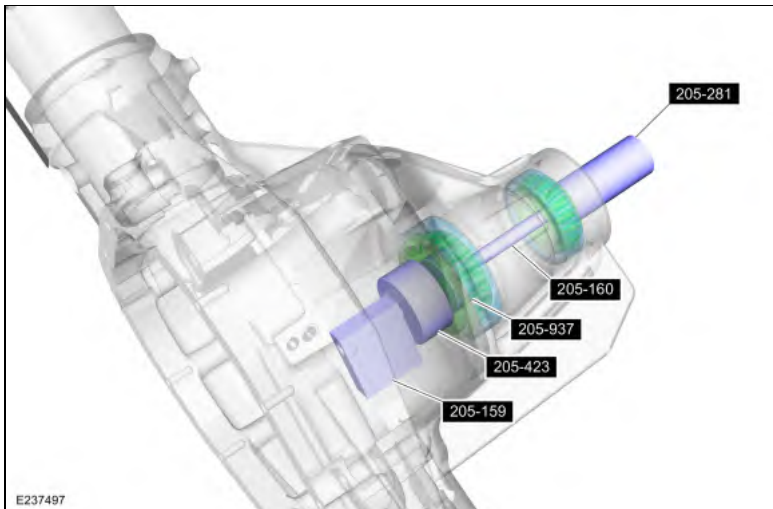
2. **NOTE:** This step duplicates final drive pinion bearing preload

Assemble the special tools in the differential housing.
 Use Special Service Tool: 205-159 (T80T-4020-F42) Adapter for 205-S156 Pinion Depth Gauge. , 205-160 (T80T-4020-F43) Adapter for 205-S156 Pinion Depth Gauge. , 205-281 (T88T-4020-B) Depth Gauge/Aligner, Drive Pinion (Handle). , 205-423 Depth Gauge, Drive Pinion (10 1/2). , 205-937 Adapter, Pinion Aligning.

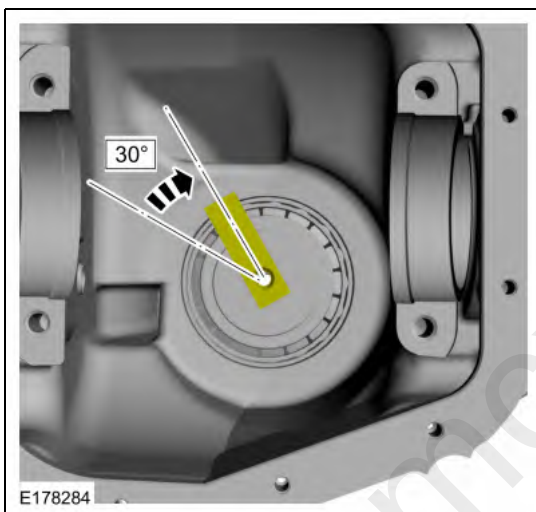
Torque:

Stage 1: Tighten to: 19 lb.in (2.2 Nm)

Stage 2: Record rotational torque: 3 turn(s)



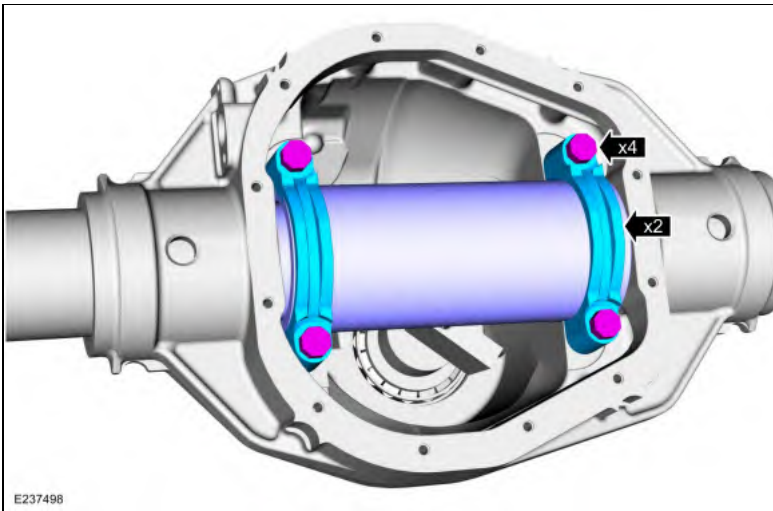
3. Check for proper location of special tools.



4. Position the tool and install the differential bearing caps and differential bearing cap bolts.

Use Special Service Tool: 205-D038 (D81T-4020-F51) Gauge Tube.

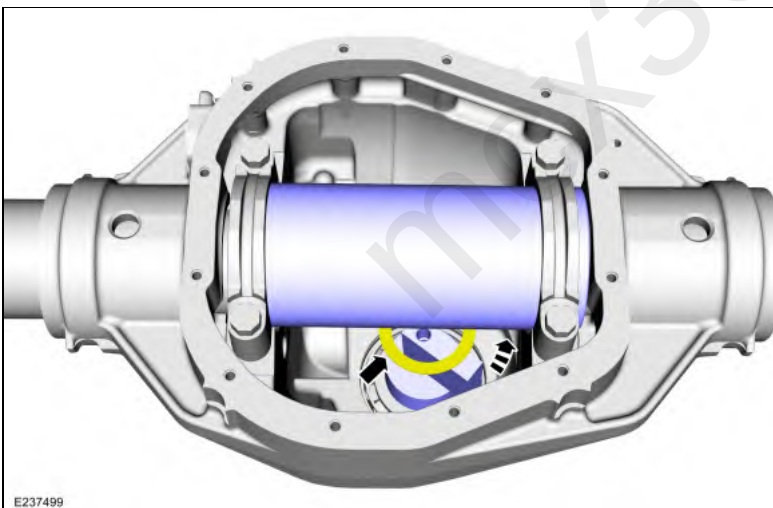
Torque: 87 lb.ft (118 Nm)



5. **NOTE:** Drive pinion bearing adjustment shims must be flat and clean.

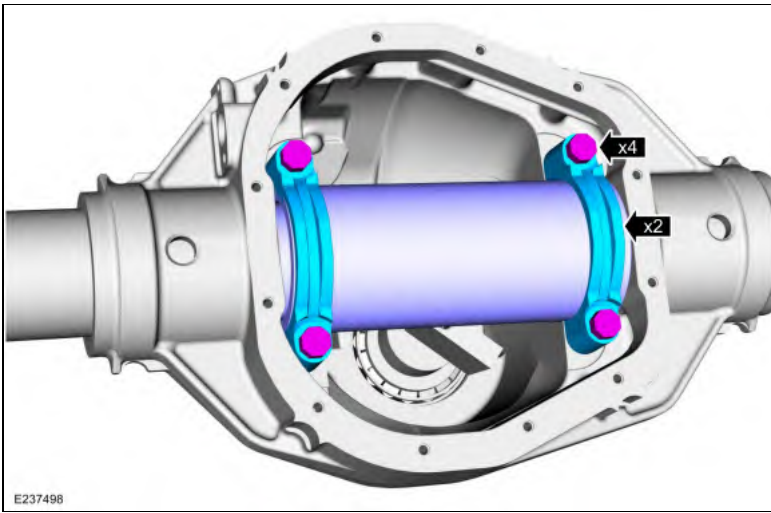
NOTE: A slight drag should be felt for correct drive pinion bearing adjustment shim selection. Do not attempt to force the drive pinion bearing adjustment shim between the gauge block and the gauge tube. This will minimize selection of a drive pinion bearing adjustment shim thicker than required, which 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.



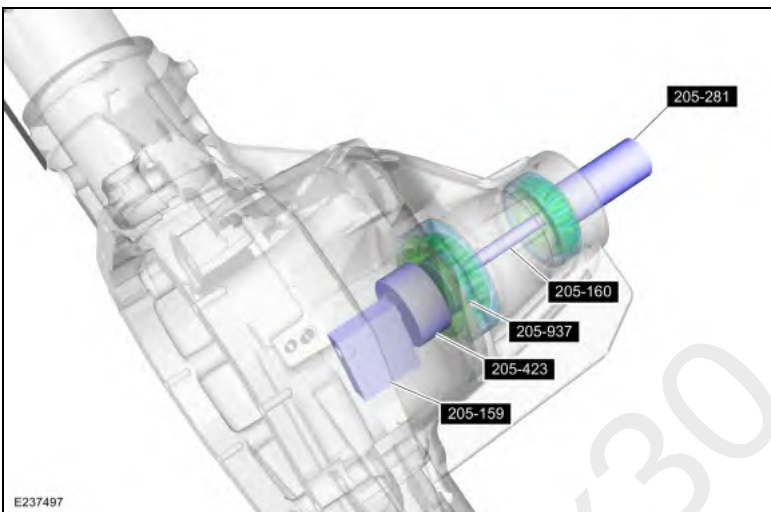
6. **NOTE:** The differential bearing caps need to stay in the correct orientation for installation.

Remove the differential bearing cap bolts and differential bearing caps, remove the special tools.
Use Special Service Tool: 205-D038 (D81T-4020-F51) Gauge Tube.

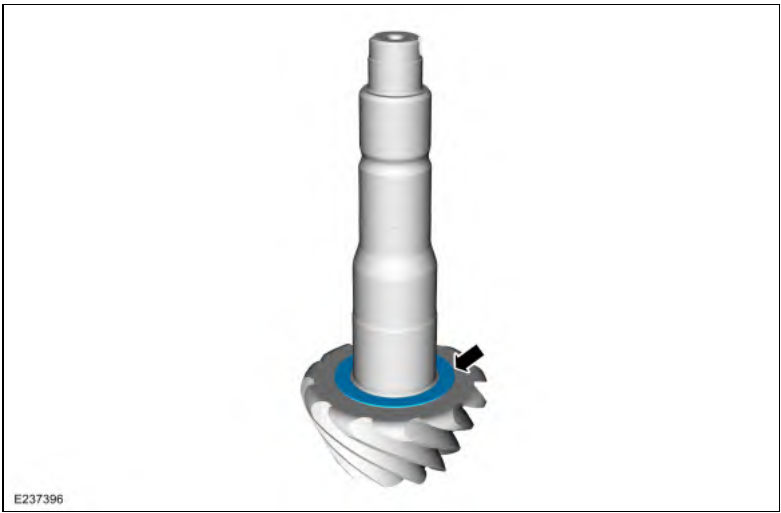


7. Remove the special tools.

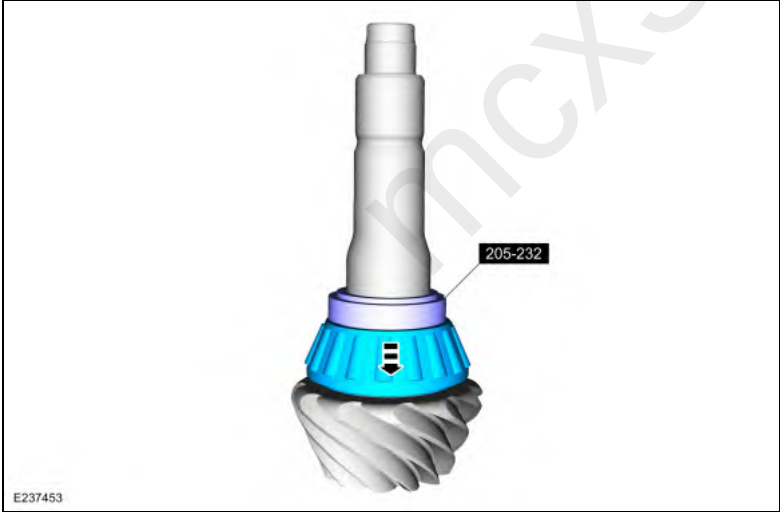
Use Special Service Tool: 205-159 (T80T-4020-F42) Adapter for 205-S156 Pinion Depth Gauge. , 205-160 (T80T-4020-F43) Adapter for 205-S156 Pinion Depth Gauge. , 205-281 (T88T-4020-B) Depth Gauge/Aligner, Drive Pinion (Handle). , 205-423 Depth Gauge, Drive Pinion (10 1/2). , 205-937 Adapter, Pinion Aligning.



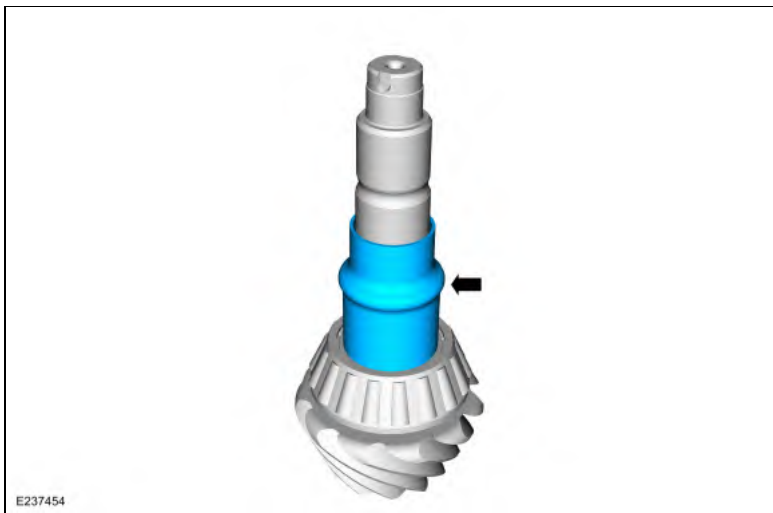
8. Install the selected inner drive pinion bearing shim.



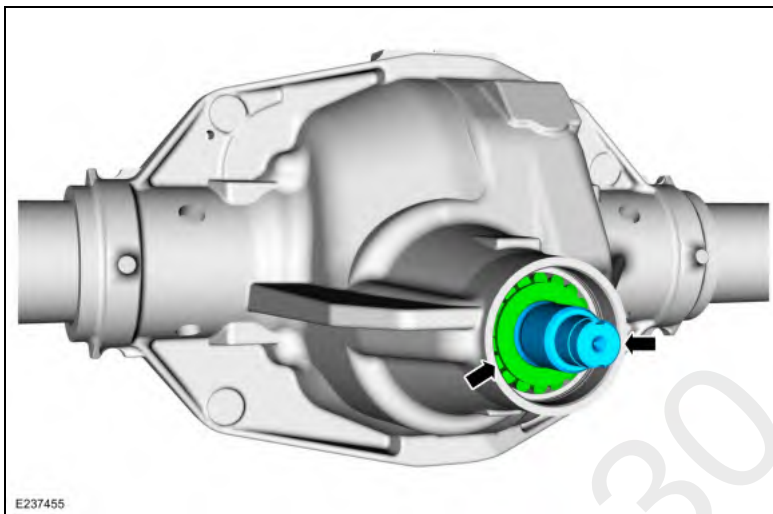
9. Install the new drive pinion inner bearing until it is firmly seated on the drive pinion.
Use Special Service Tool: 205-232 (T85T-4621-AH) Installer, Drive Pinion Bearing.
Use the General Equipment: Hydraulic Press



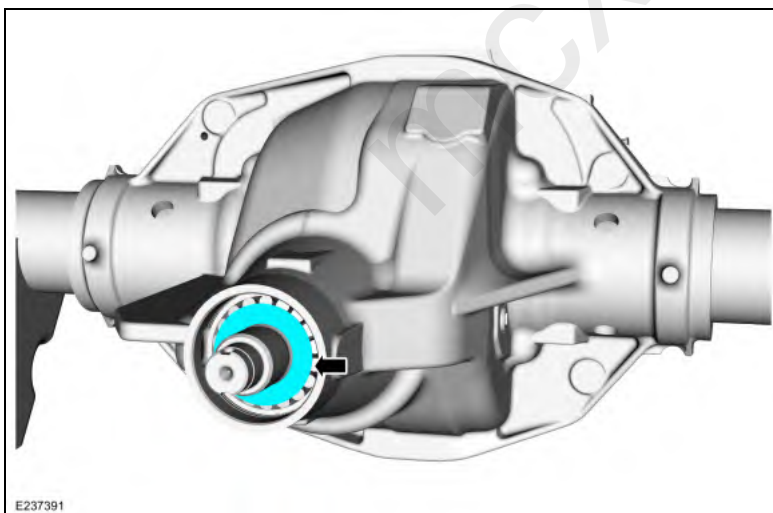
10. Install the new drive pinion collapsible spacer.



11. Install the drive pinion and the new drive pinion outer bearing.



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



13. **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 (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).

14. Install the differential carrier.

Refer to: Differential Carrier (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).

