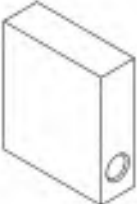
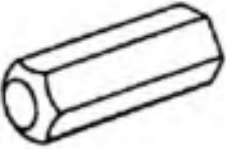
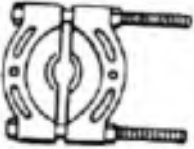


Drive Pinion

Special Tool(s) / General Equipment

 E234288	205-024 (T67P-4616-A) Installer, Drive Pinion Bearing Cup
 E169393	205-111 (T76P-4020-A11) Handle
 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
 E169394	205-229 (T85T-4209-AH) Protector, Drive Pinion Thread TKIT-1985-FH-1

 E169397	205-377 (T97T-4020-A) Gauge Tube, Drive Pinion TKIT-1997-F/FLM/LT TKIT-1998-LM (NavigatoR)
 E169398	205-383 (T97T-4020-B) Depth Gauge/Aligner, Drive Pinion TKIT-1997-F/FLM/LT TKIT-1998-LM (NavigatoR)
 E180811	205-488 Installer, Drive Pinion Bearing TKIT-1999S-FLM/LT
 E238656	205-852 Inner Pinion Bearing Cup Installer TKIT-2006UP-FLM TKIT-2006UP-ROW
 E180810	205-937 Adapter, Pinion Aligning TKIT-2009C-F TKIT-2009C-ROW
	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

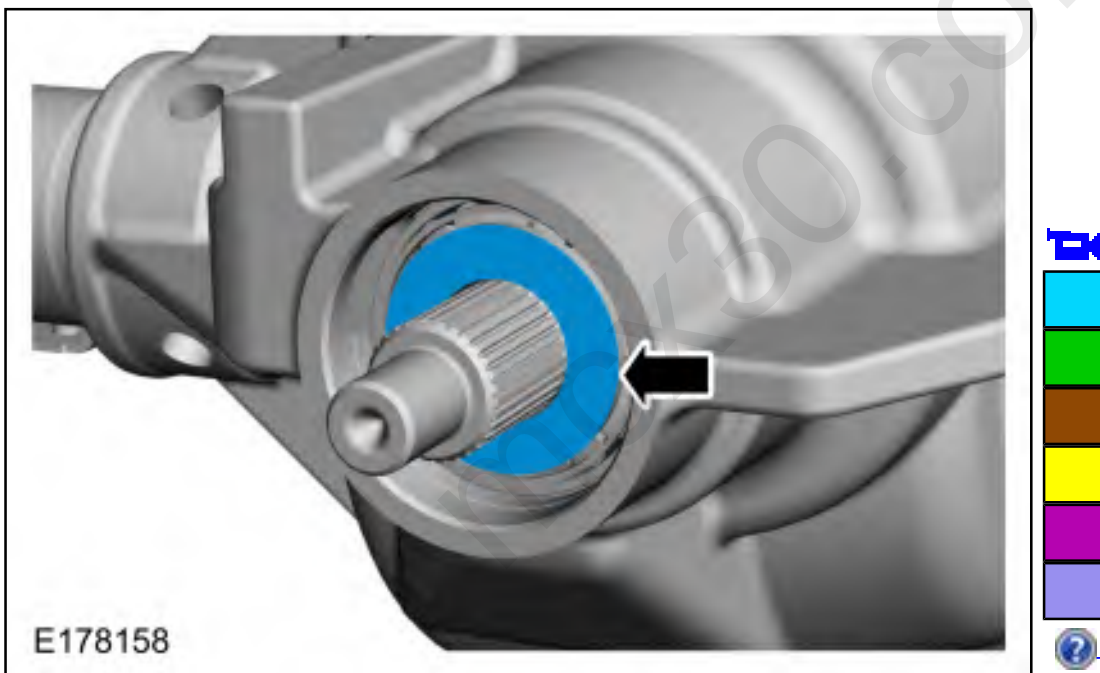
1. Remove the differential carrier.

Refer to: [Differential Carrier](#) (205-02B Rear Drive Axle/Differential - Vehicles With: Ford 9.75 Inch Ring Gear, Removal and Installation).

2. Remove the drive pinion seal.

Refer to: [Drive Pinion Seal](#) (205-02B Rear Drive Axle/Differential - Vehicles With: Ford 9.75 Inch Ring Gear, Removal and Installation).

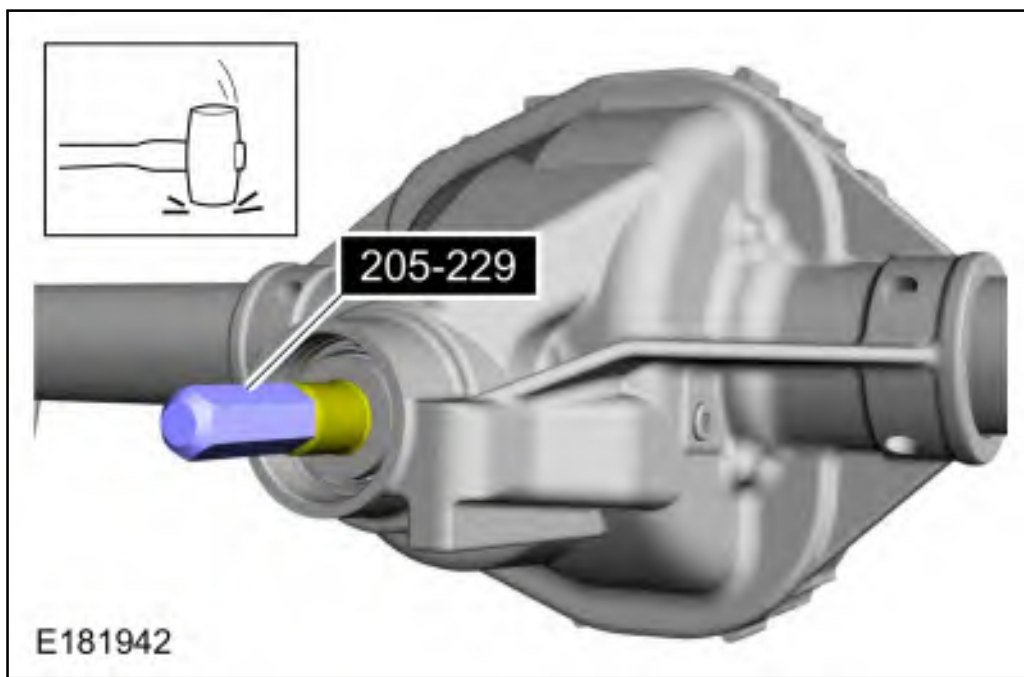
3. Remove the drive pinion outer shim.



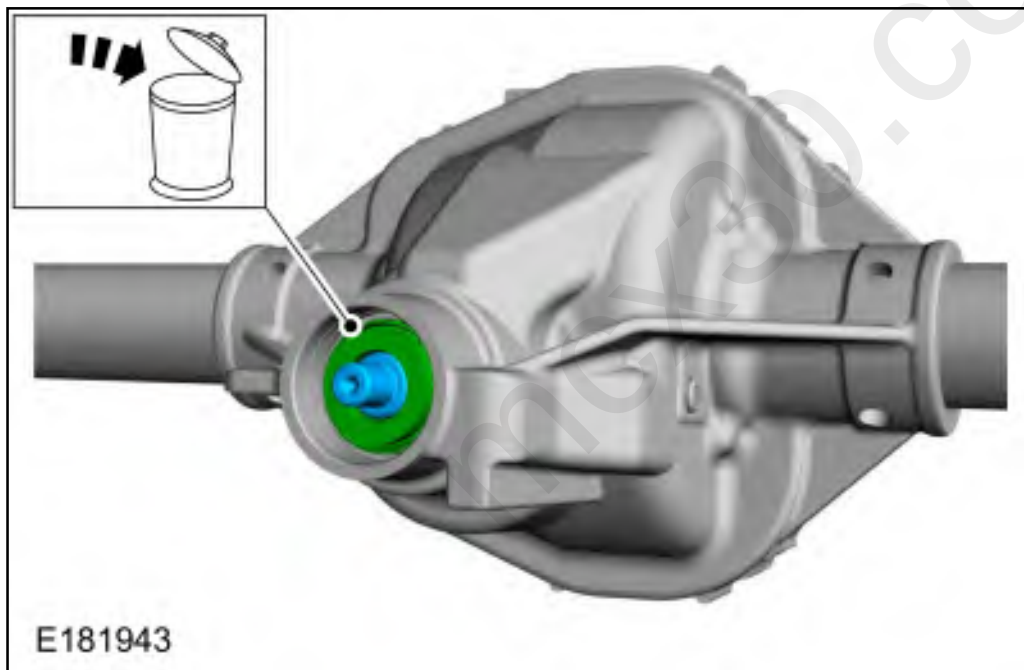
4. Using the special tool and a soft face mallet, tap the drive pinion free of the of the drive pinion outer bearing.

Use Special Service Tool: 205-229 (T85T-4209-AH) Protector, Drive Pinion Thread.

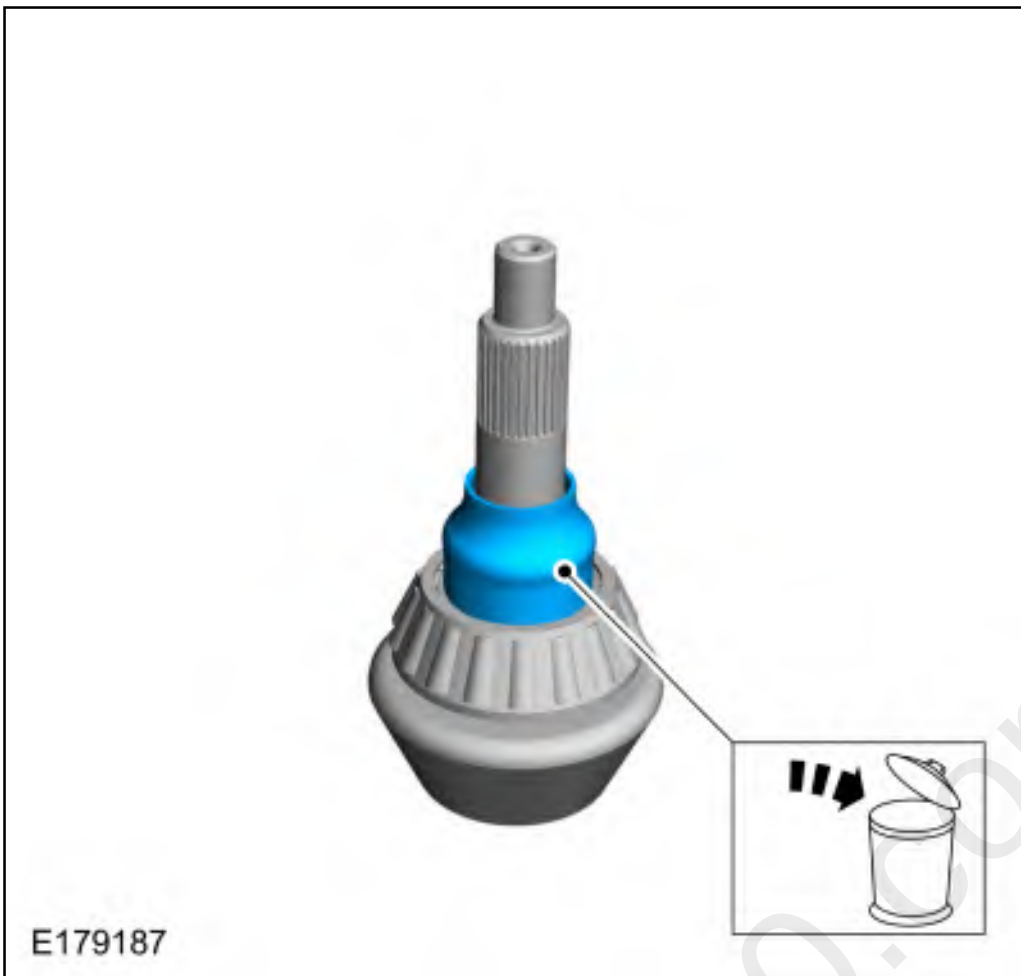
Use the General Equipment: Rubber Mallet



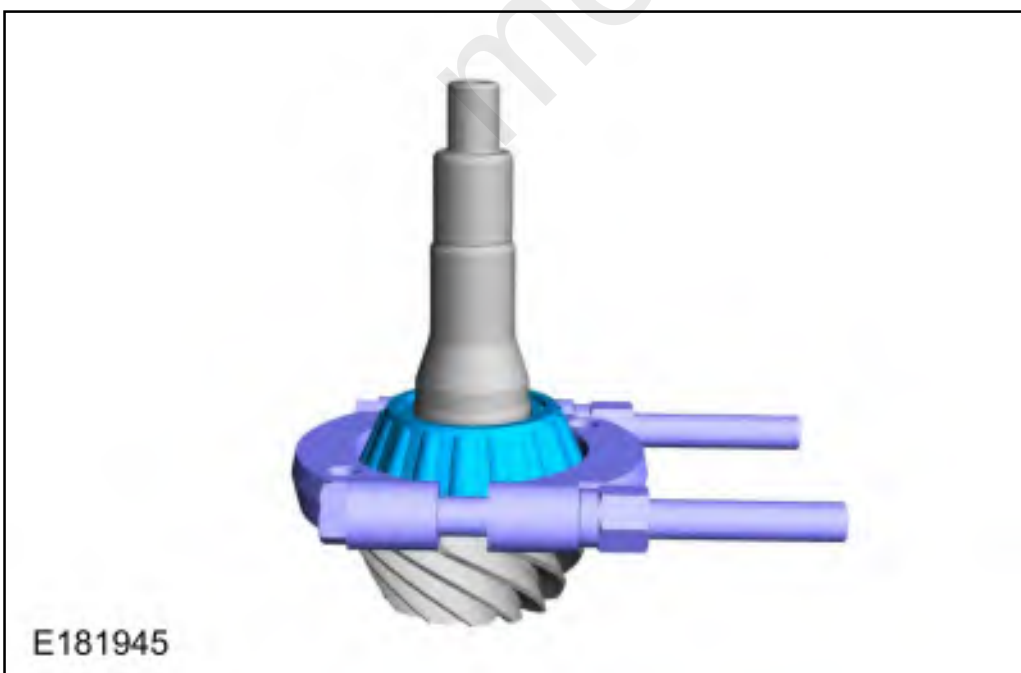
5. Remove the drive pinion and remove and discard the drive pinion outer bearing.



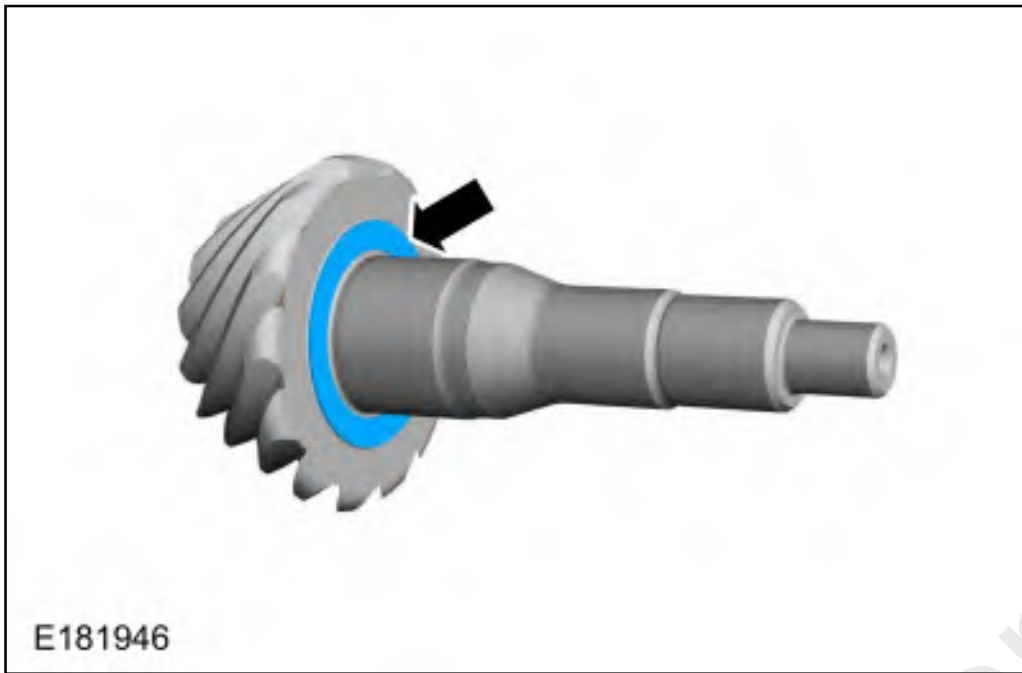
6. Remove and discard the drive pinion collapsible spacer.



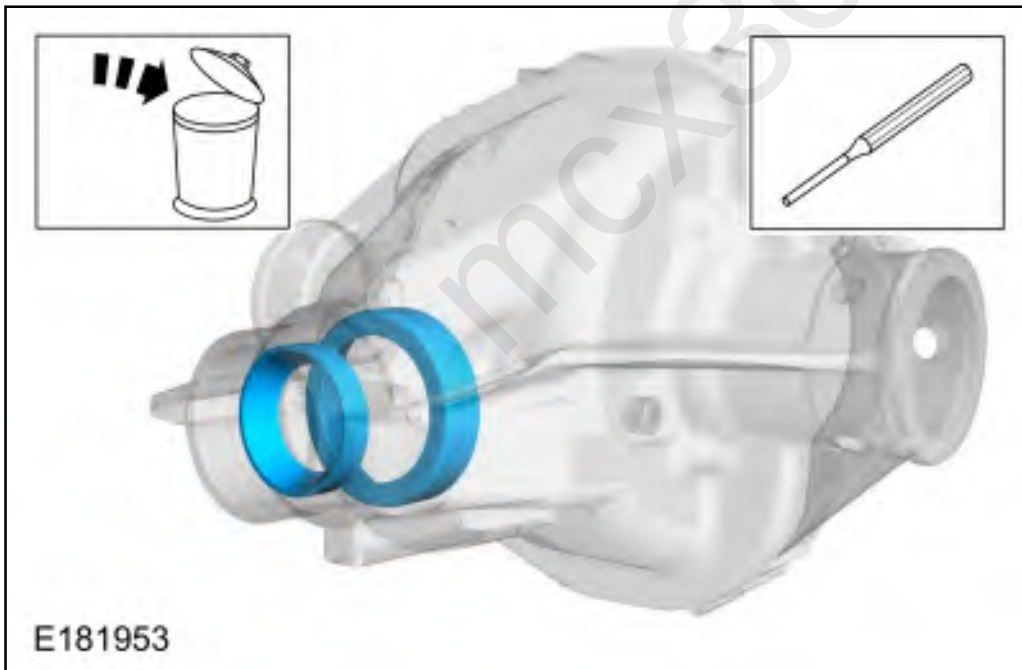
7. Using the bearing puller and a hydraulic press, remove and discard the inner drive pinion bearing.
 Use Special Service Tool: 205-D064 (D84L-1123-A) Puller, Bearing.
 Use the General Equipment: Hydraulic Press



8. Remove the inner drive pinion bearing shim.



9. Using the general equipment, remove and discard the 2 drive pinion bearing cups.
Use the General Equipment: Punch
Use the General Equipment: Copper Hammer

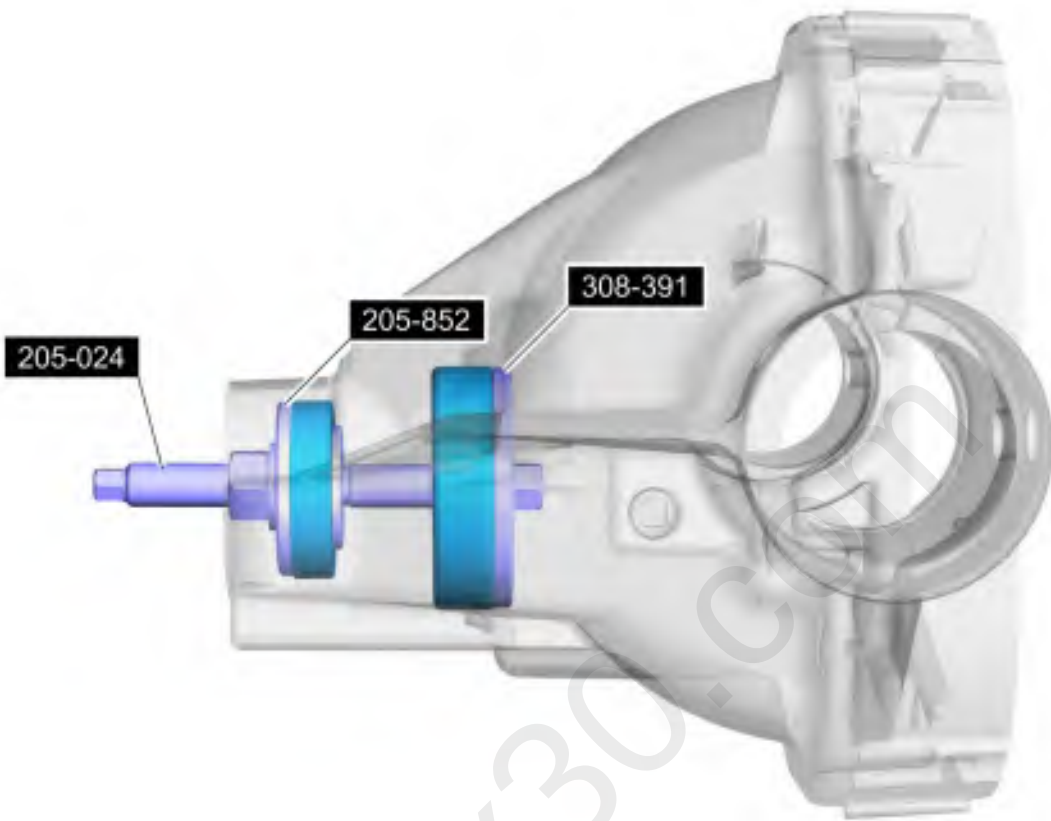


Installation

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.

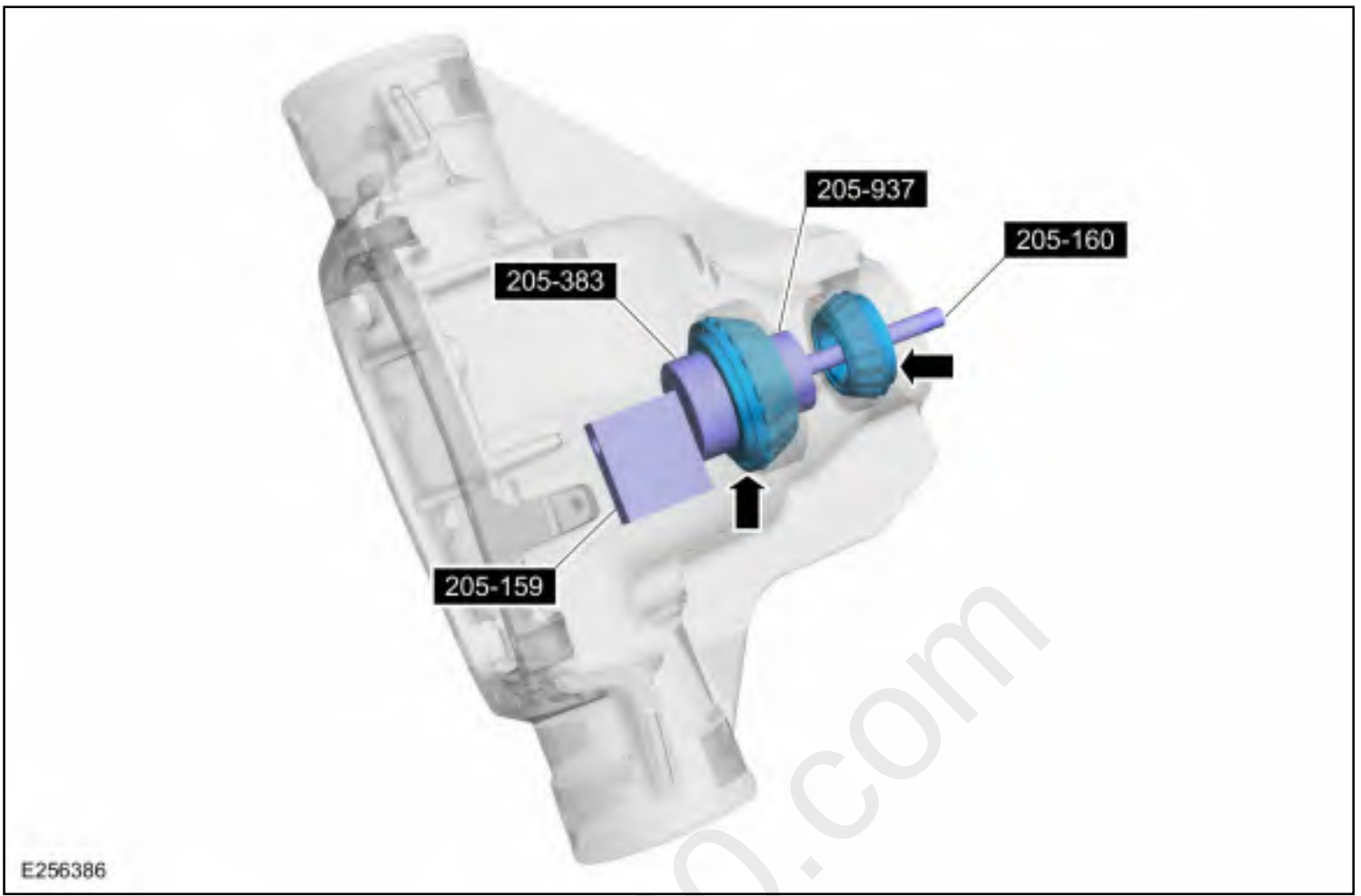
Use Special Service Tool: 205-024 (T67P-4616-A) Installer, Drive Pinion Bearing Cup. , 205-852 Inner Pinion Bearing Cup Installer. , 308-391 Installer, Input Shaft Bearing Cup.



2. **NOTE:** *Only tighten finger tight at this stage.*

Assemble the special tools and new bearings 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. , 205-383 (T97T-4020-B) Depth Gauge/Aligner, Drive Pinion. , 205-937 Adapter, Pinion Aligning.

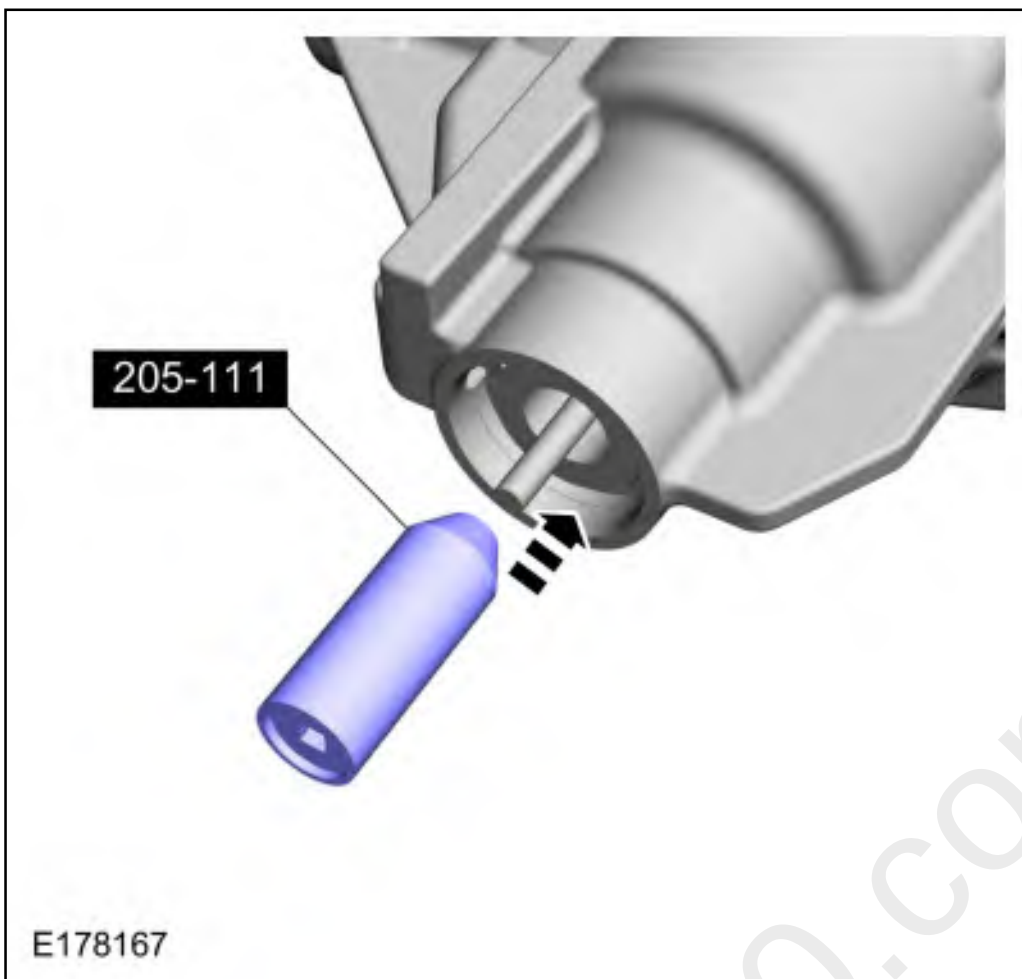


- Install the special tool.
Use Special Service Tool: 205-111 (T76P-4020-A11) Handle.
- **NOTE:** *This step duplicates final drive pinion bearing preload*

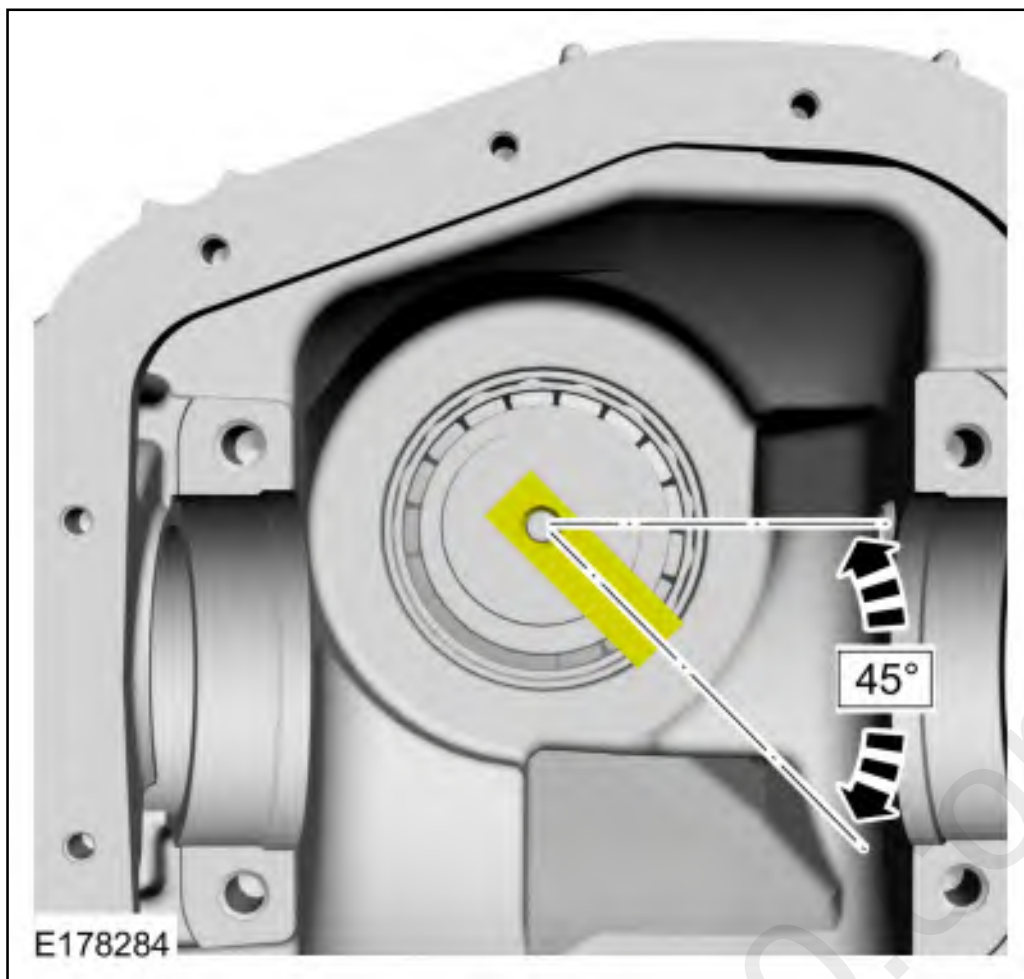
Tighten the special tool to the specified torque.

Torque: 18 lb.in (2 Nm)

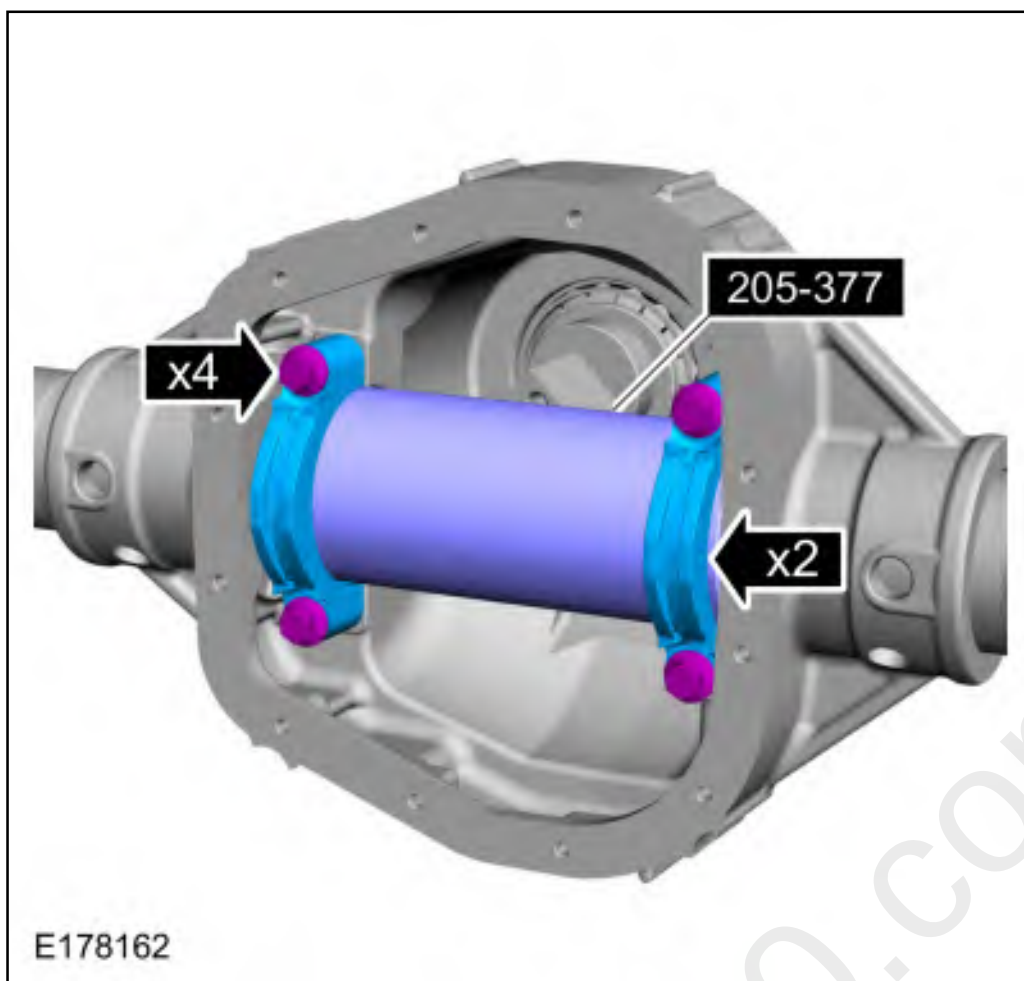
- Slowly rotate and record the rotational torque readings.



4. Check for proper location of special tools.



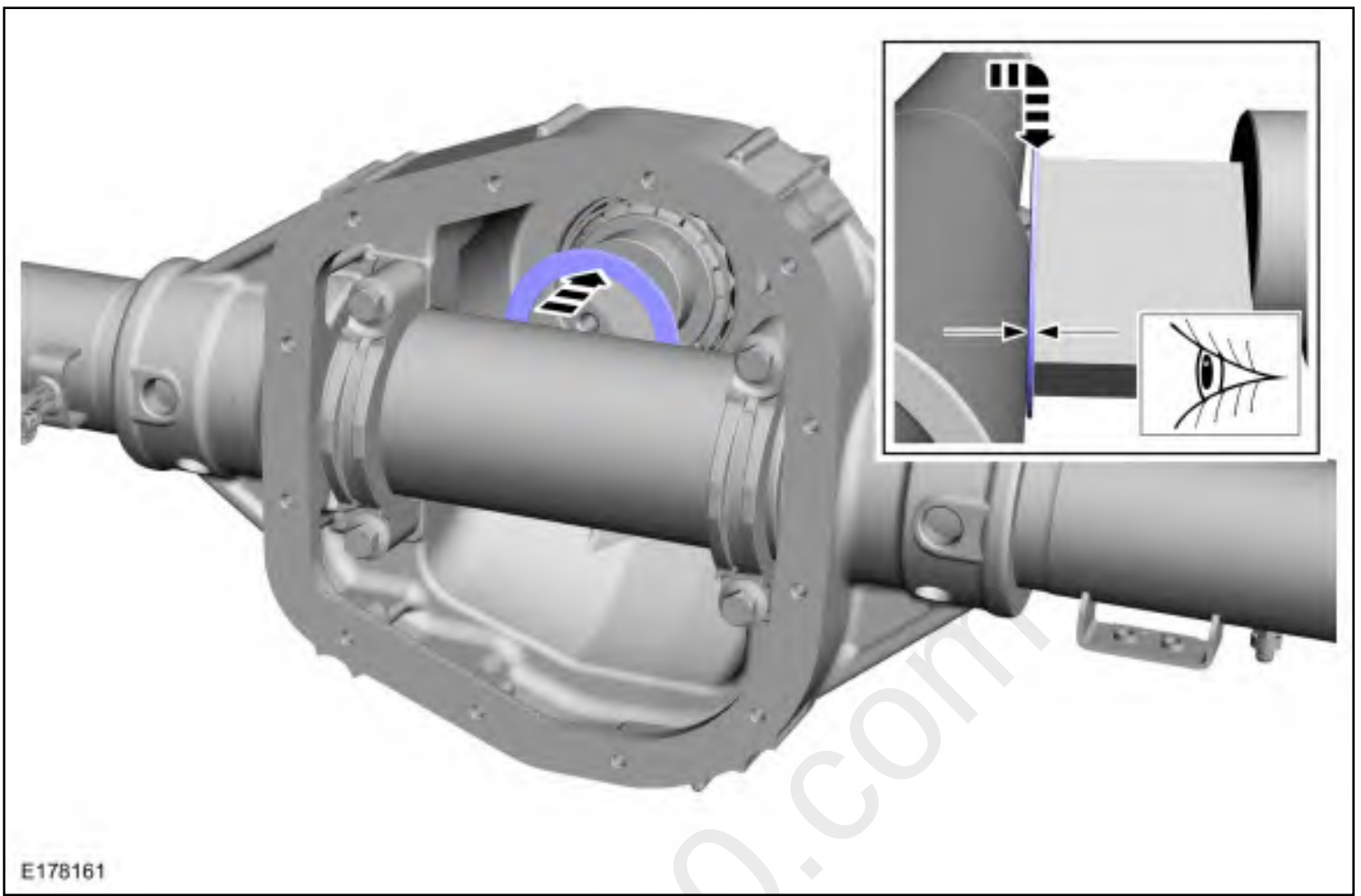
- Position the special tool.
Use Special Service Tool: 205-377 (T97T-4020-A) Gauge Tube, Drive Pinion.
- Install the differential bearing caps and differential bearing cap bolts.
Torque: 83 lb.ft (112 Nm)



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

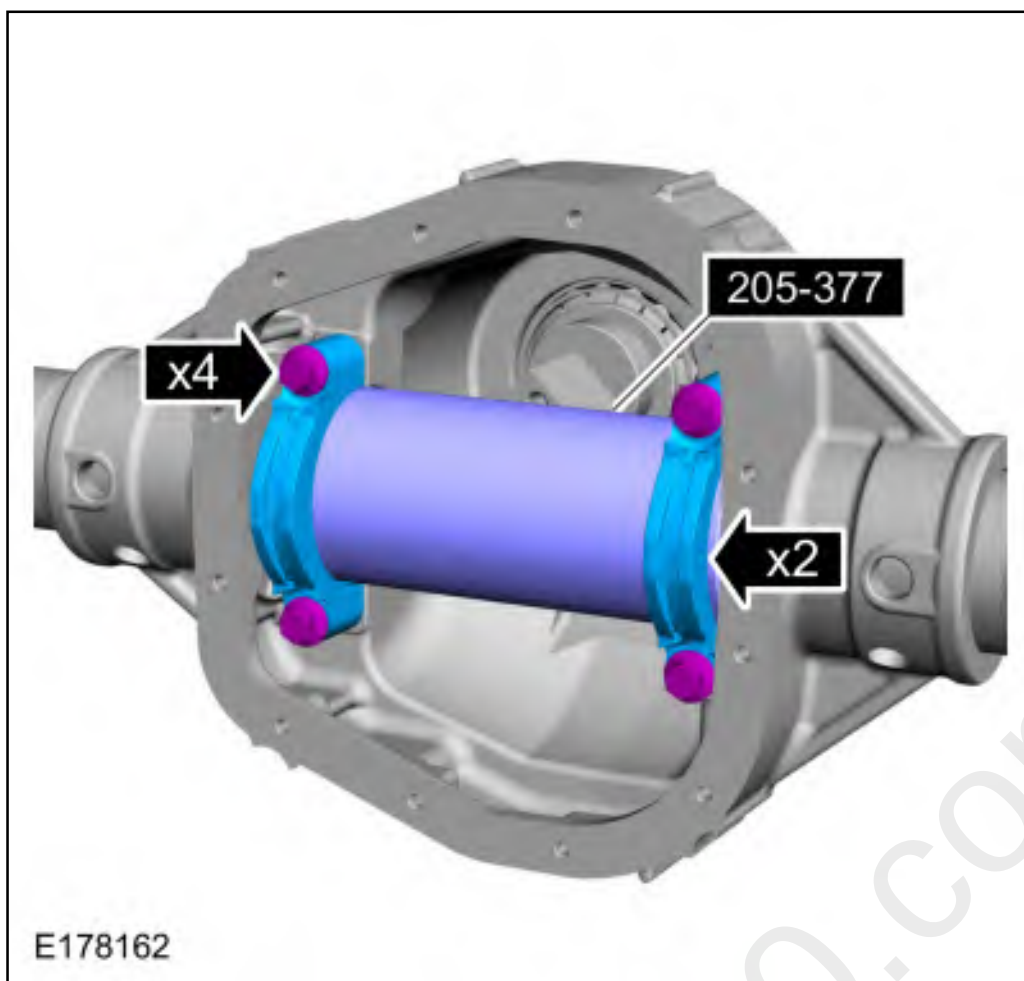
NOTE: A slight drag should be felt for correct drive pinion bearing adjustment shim selection. Do not attempt to force the drive pinion bearing adjustment shim between the gauge block and the gauge tube. This will minimize selection of a drive pinion bearing adjustment shim thicker than required, which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

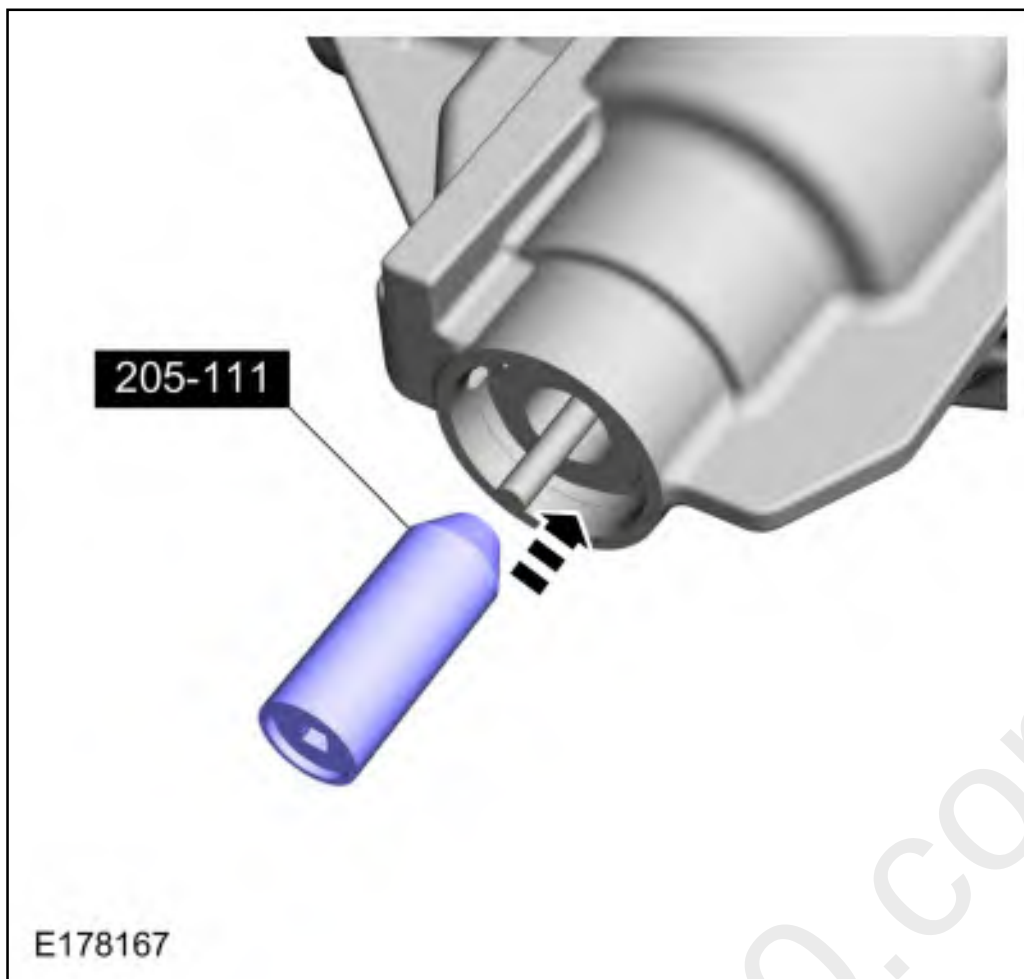


7. **NOTE:** *The differential bearing caps need to stay in the correct orientation for installation.*

Remove the differential bearing cap bolts and differential bearing caps, remove the special tools.
Use Special Service Tool: 205-377 (T97T-4020-A) Gauge Tube, Drive Pinion.

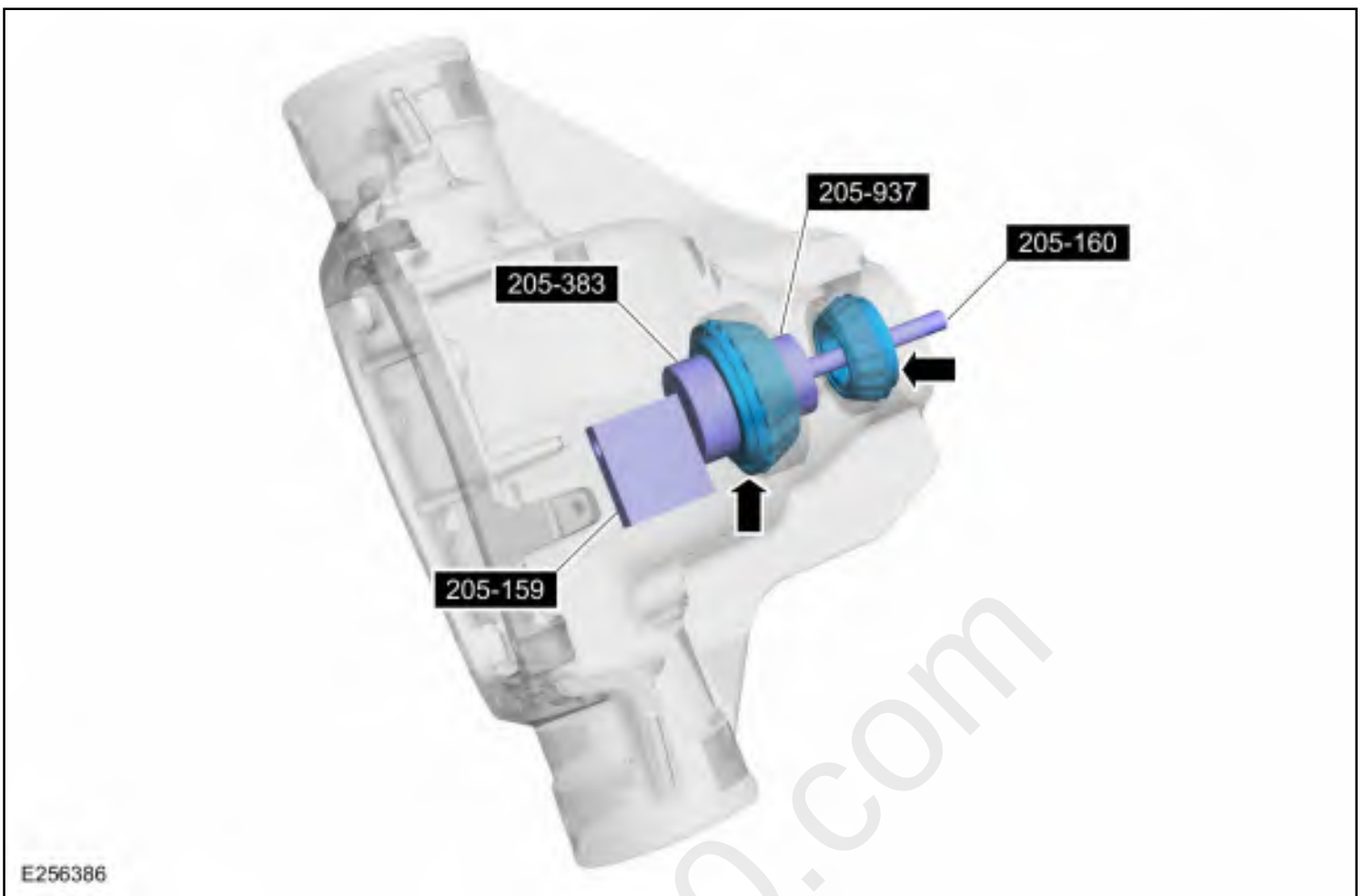


8. Remove the special tool.
Use Special Service Tool: 205-111 (T76P-4020-A11) Handle.



9. Remove the special tools.

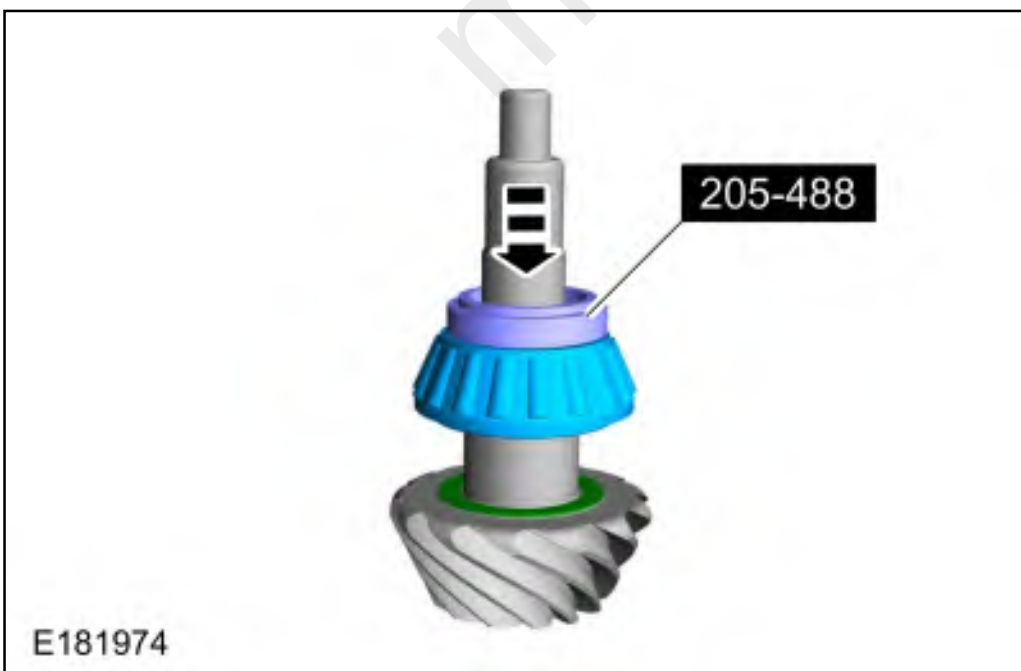
Use Special Service Tool: 205-159 (T80T-4020-F42) Adapter for 205-S156 Pinion Depth Gauge. , 205-160 (T80T-4020-F43) Adapter for 205-S156 Pinion Depth Gauge. , 205-383 (T97T-4020-B) Depth Gauge/Aligner, Drive Pinion. , 205-937 Adapter, Pinion Aligning.



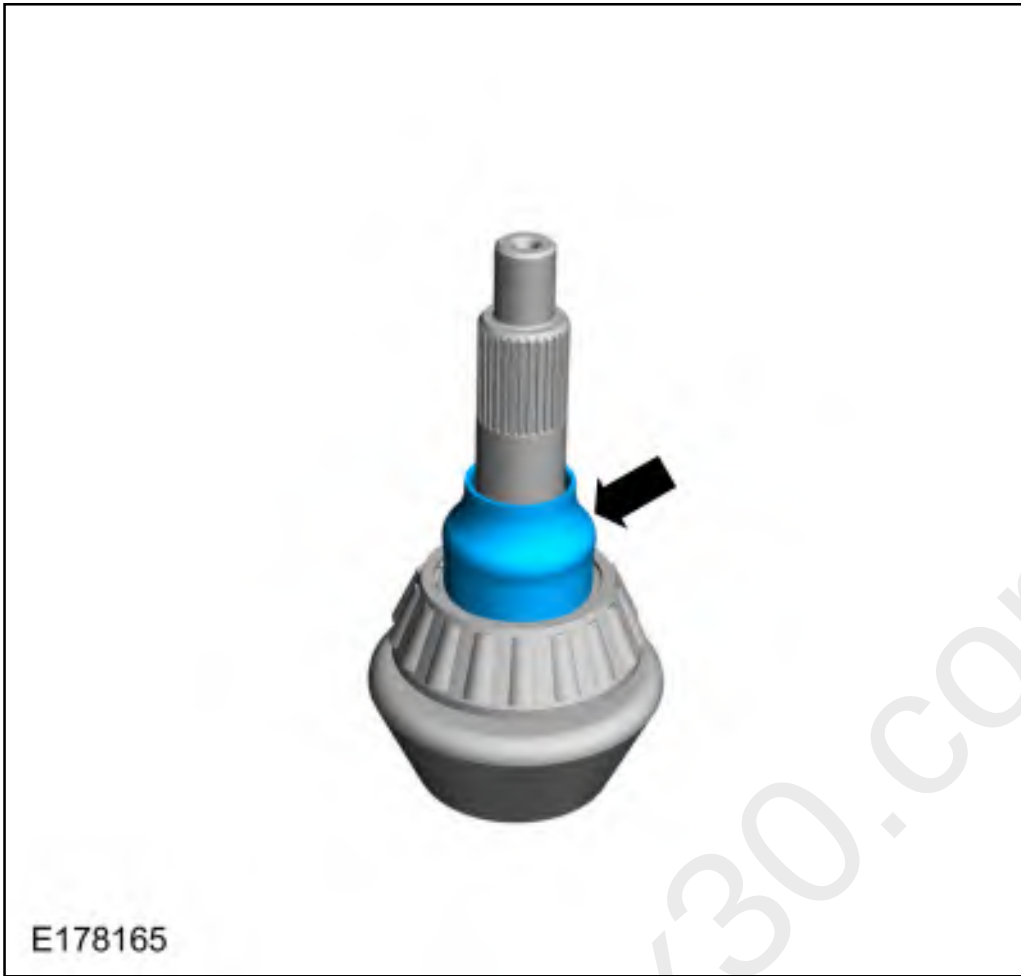
10. Install the drive pinion inner bearing and selected drive pinion bearing adjustment shim until they are firmly seated on the drive pinion.

Use Special Service Tool: 205-488 Installer, Drive Pinion Bearing.

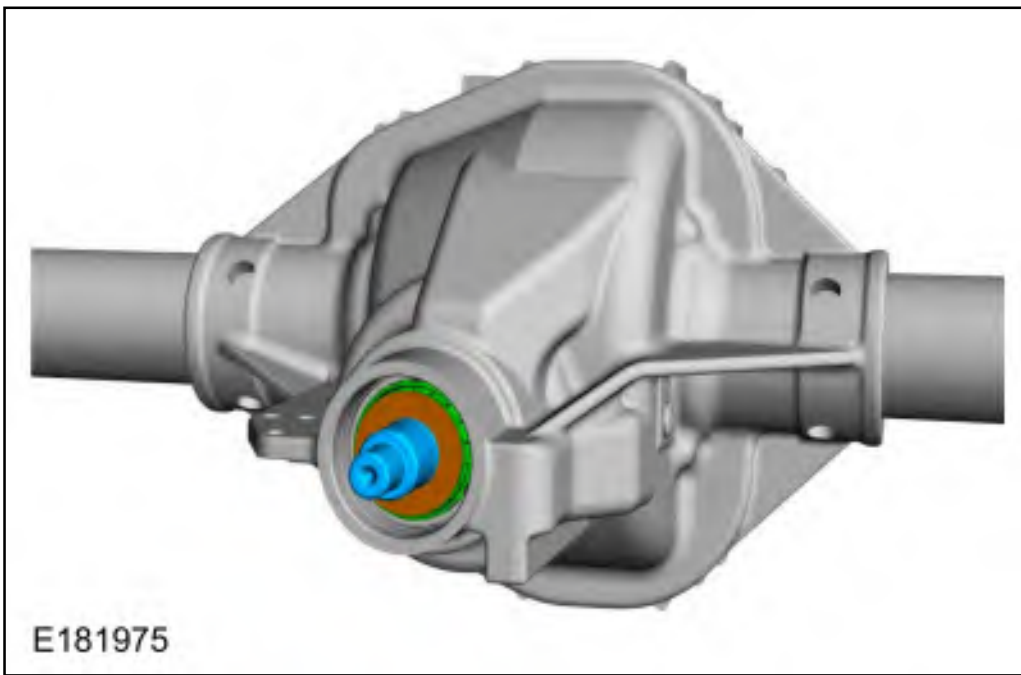
Use the General Equipment: Hydraulic Press



11. Install the new drive pinion collapsible spacer.



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](#) (205-02B Rear Drive Axle/Differential - Vehicles With: Ford 9.75 Inch Ring Gear, Removal and Installation).

14. Install the differential carrier.

Refer to: [Differential Carrier](#) (205-02B Rear Drive Axle/Differential - Vehicles With: Ford 9.75 Inch Ring Gear, Removal and Installation).