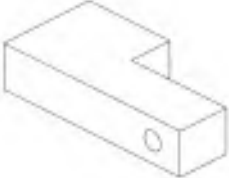
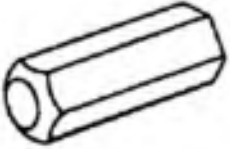
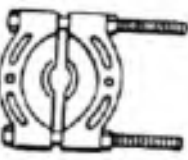


Drive Pinion

Special Tool(s) / General Equipment

 E234288	205-024 (T67P-4616-A) Installer, Drive Pinion Bearing Cup
 E188619	205-1014 Gauge Disc TKIT-2014D-FL_ROW TKIT-2014D-ROW2
 E234299	205-110 (T76P-4020-A10) Gauge Block
 E169393	205-111 (T76P-4020-A11) Handle
 E169394	205-160 (T80T-4020-F43) Adapter for 205-S156 Pinion Depth Gauge

	205-229 (T85T-4209-AH) Protector, Drive Pinion Thread TKIT-1985-FH-1
	205-387 (T97T-4628-A) Installer, Rear Axle Bearing Cup TKIT-1997-F/FLM/LT TKIT-1998-LM (NavigatorR)
 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
Rubber Mallet	
Hydraulic Press	
Punch	
Copper Hammer	

Removal

1. Remove the differential carrier.

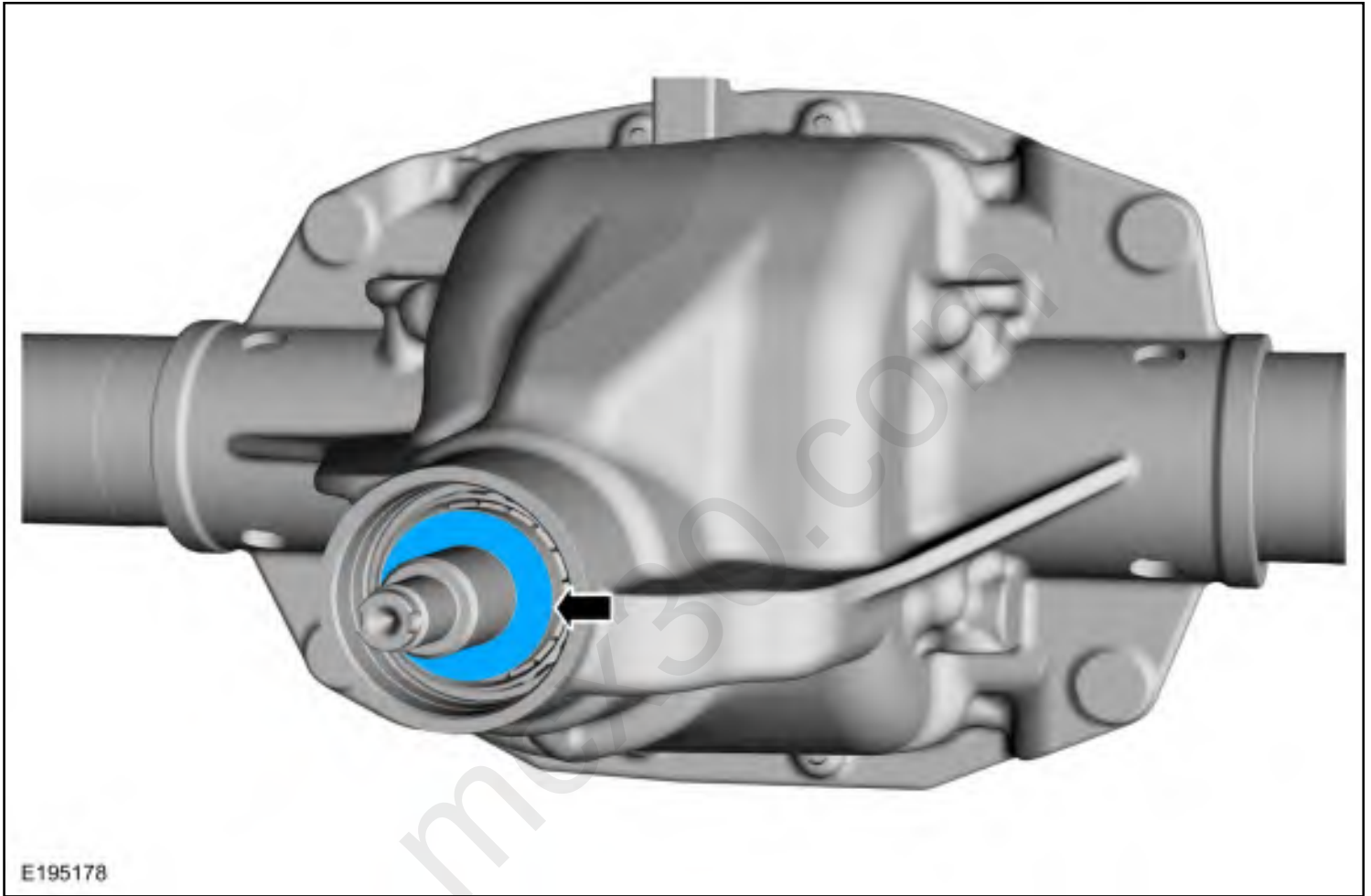
Refer to: [Differential Carrier](#) (205-02A Rear Drive Axle/Differential - Vehicles With: Ford 8.8 Inch

Ring Gear, Removal and Installation).

2. Remove 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).

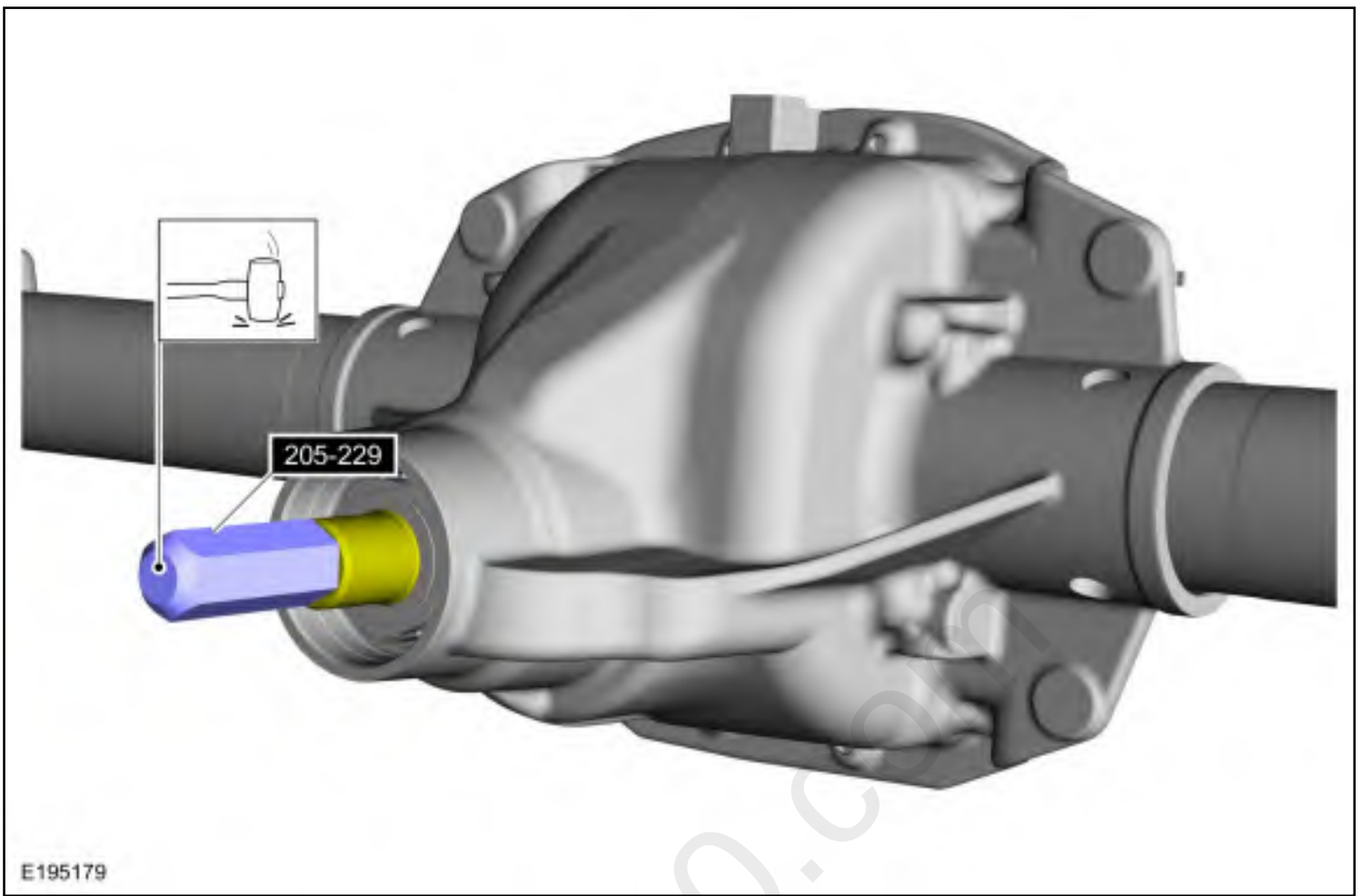
3. Remove the drive pinion outer shim.



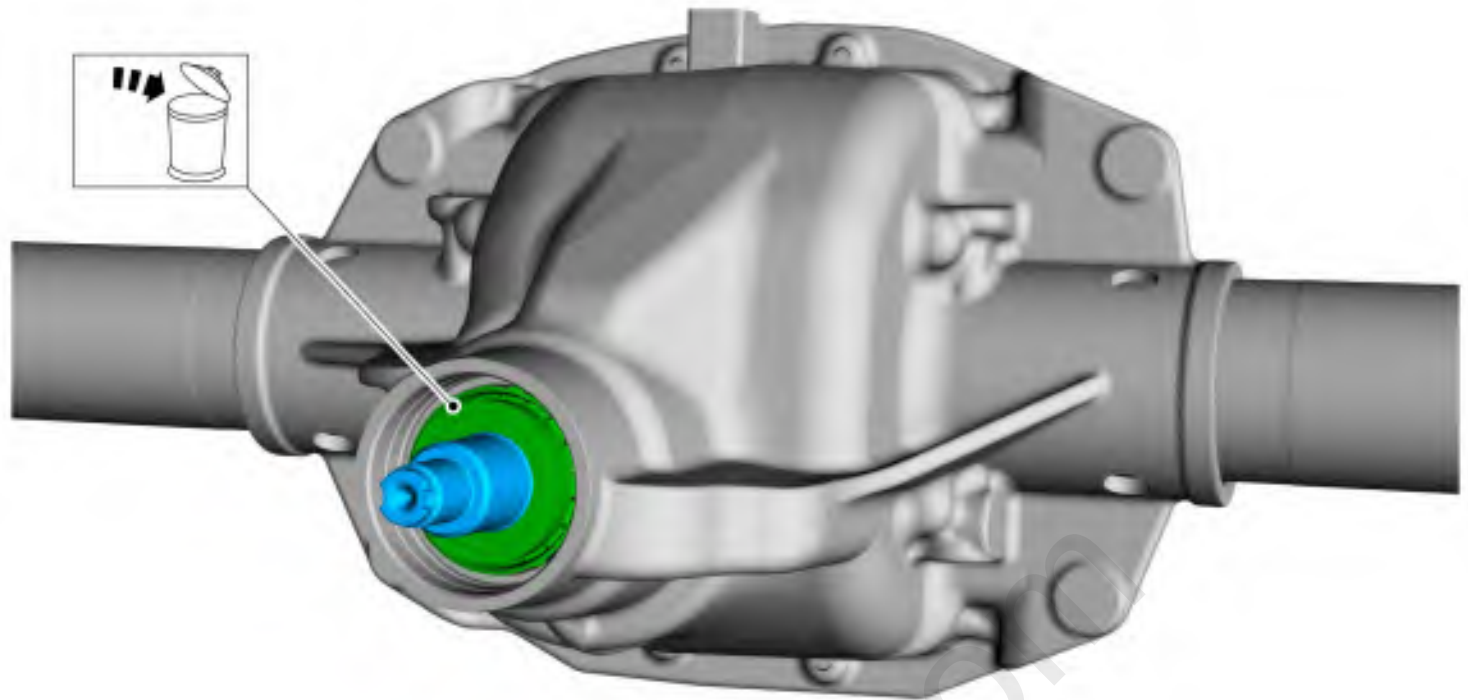
4. Using the special tool and a soft face mallet, tap drive pinion free of the of the drive pinion outer bearing.

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

Use the General Equipment: Rubber Mallet



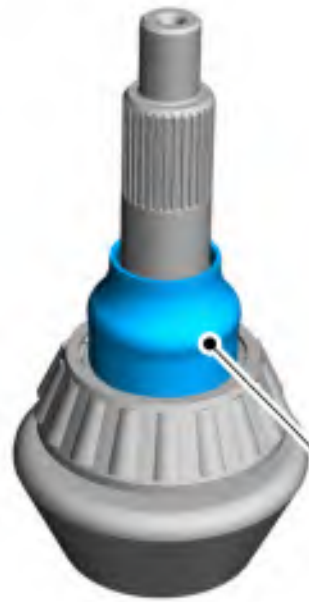
5. Remove the drive pinion and remove and discard the drive pinion outer bearing.



E195180



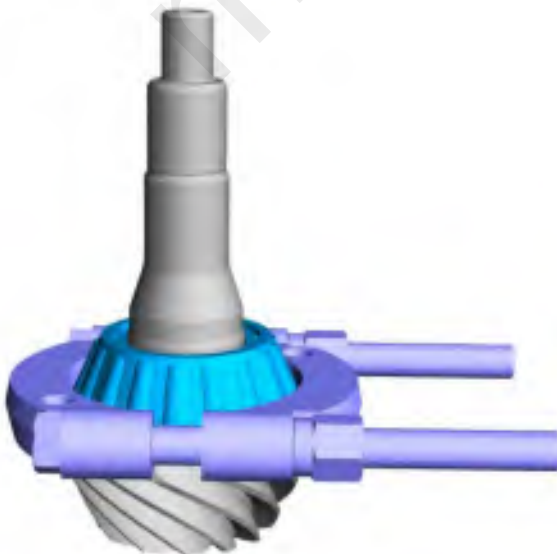
6. Remove and discard the drive pinion collapsible spacer.



E179187



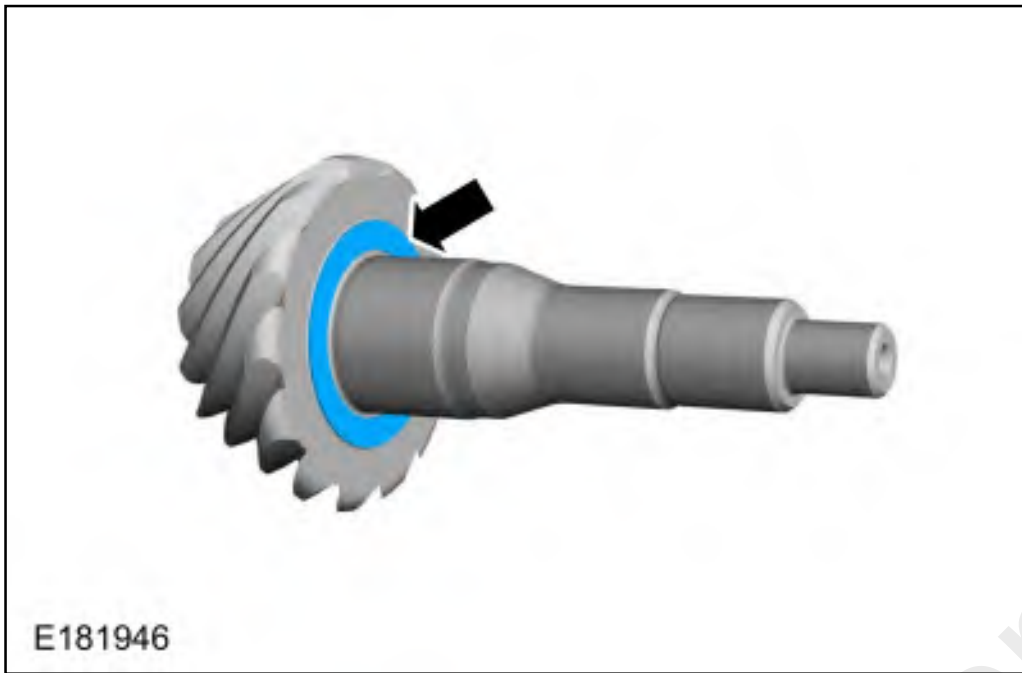
7. Using the bearing puller and a hydraulic press, remove and discard the inner drive pinion bearing.
 Use Special Service Tool: 205-D064 (D84L-1123-A) Puller, Bearing.
 Use the General Equipment: Hydraulic Press



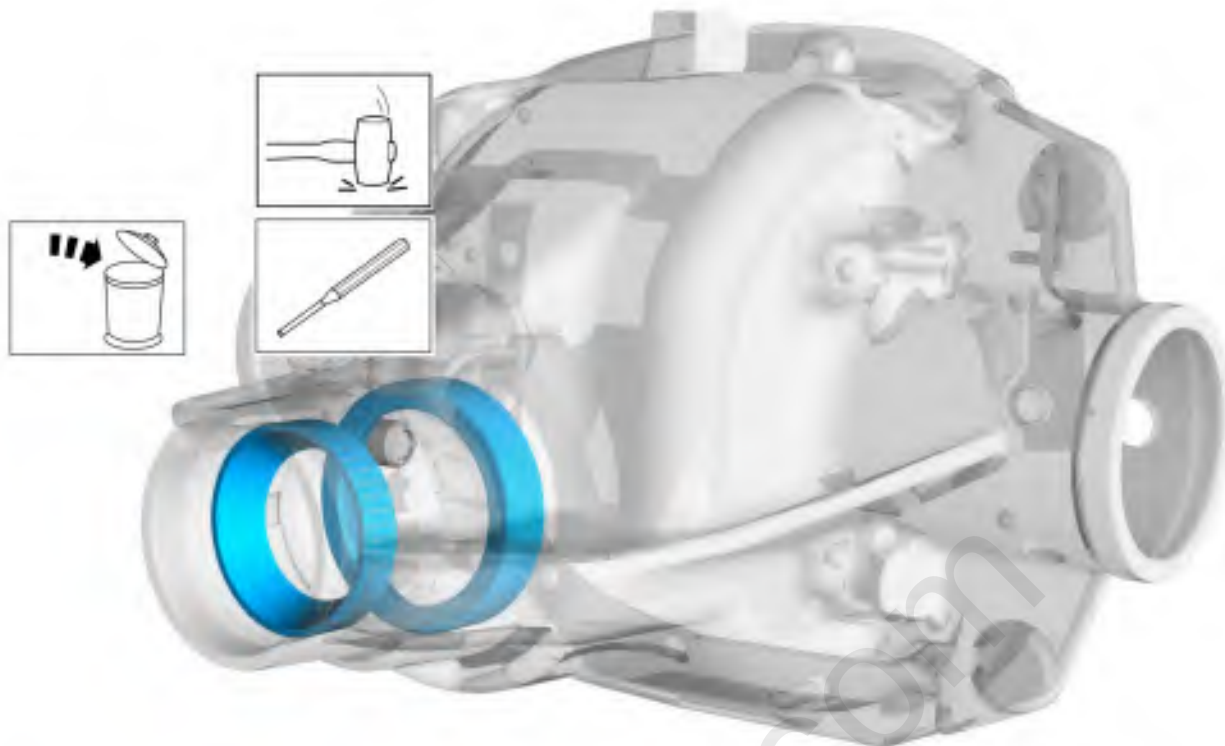
E181945



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



E195181

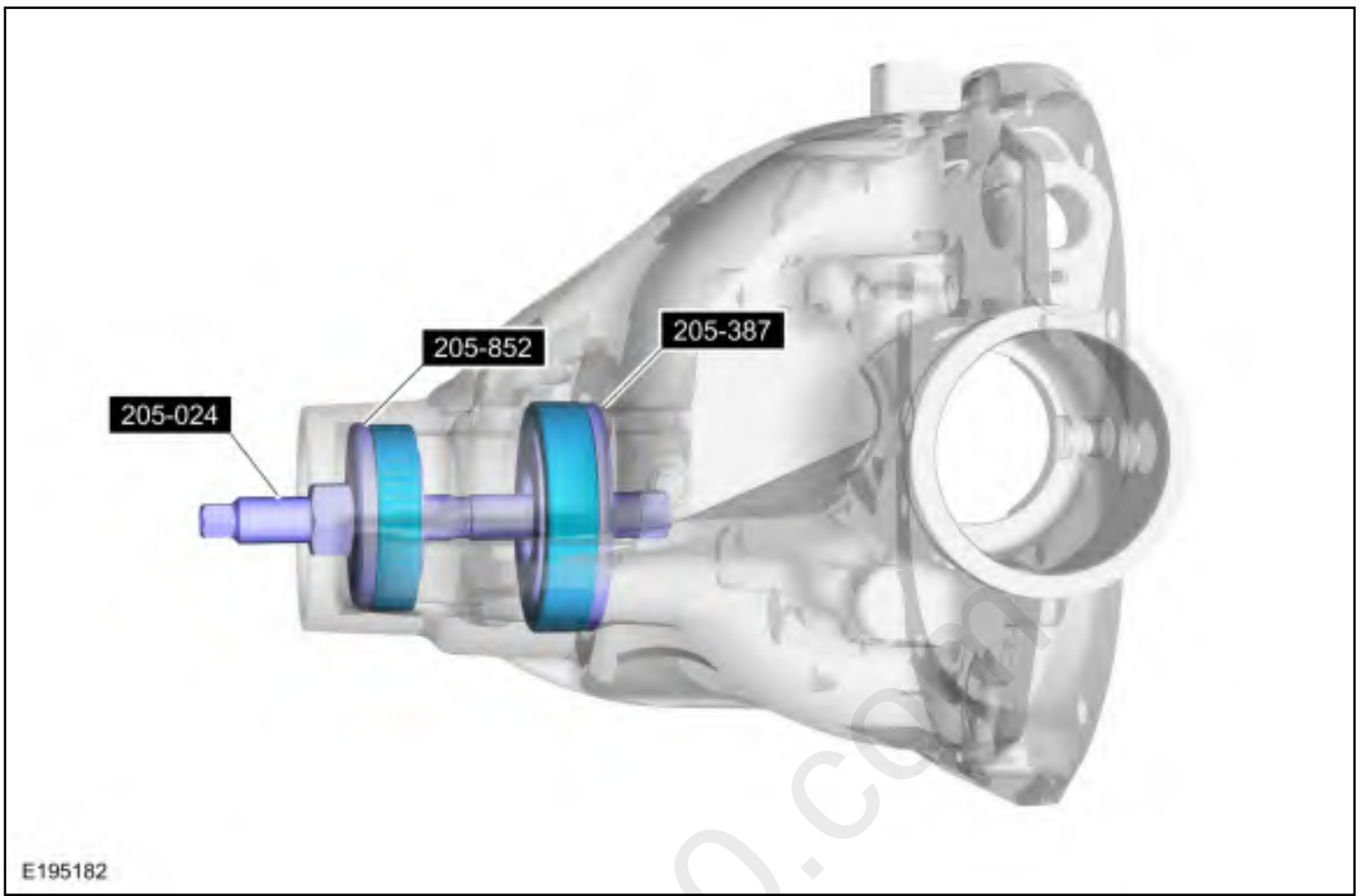
Installation

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. , 205-387 (T97T-4628-A) Installer, Rear Axle Bearing Cup.

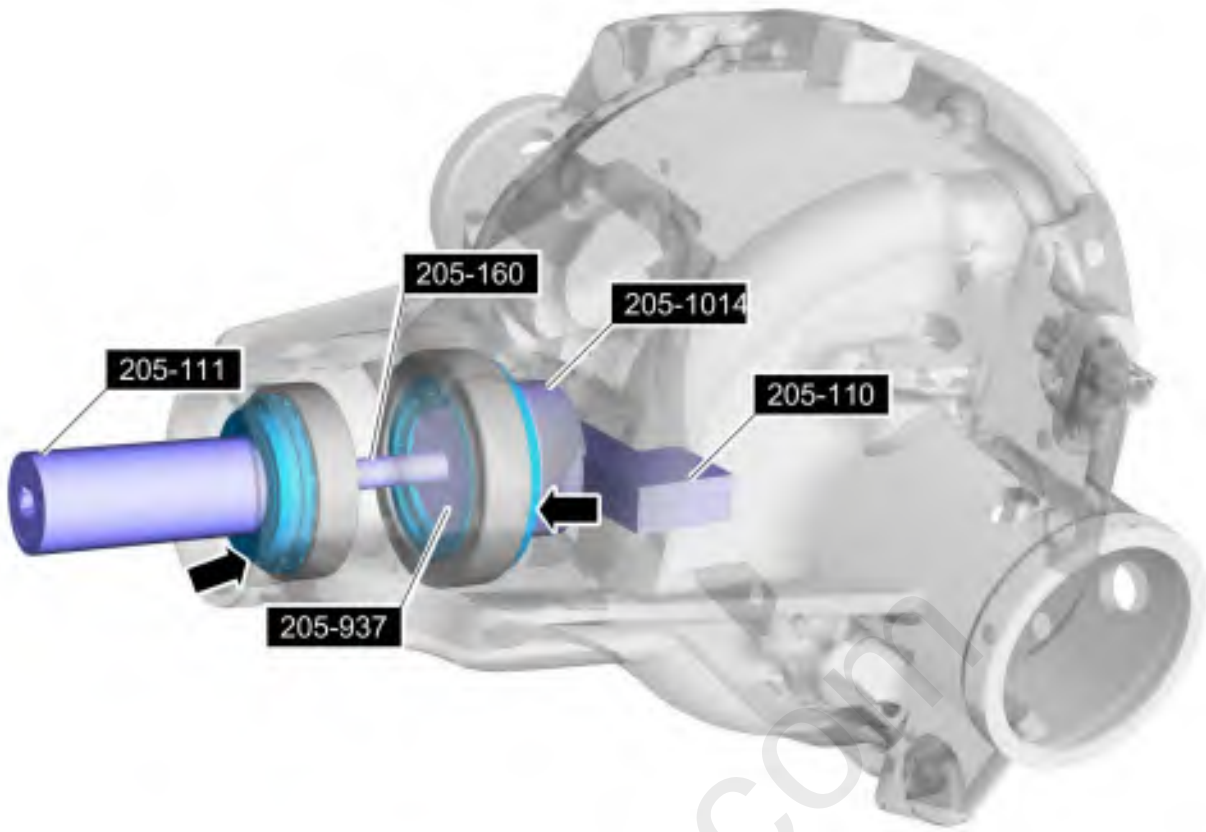


2. **NOTE:** *Only tighten finger tight at this stage.*

Assemble the special tools in the differential housing.

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.



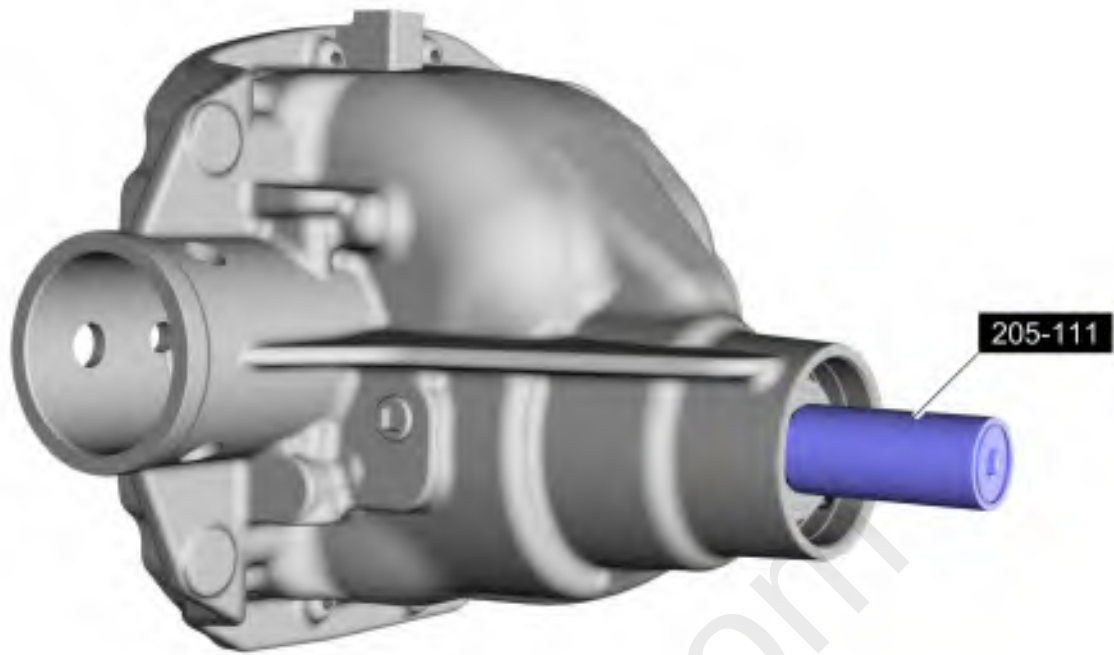
E195222

- **NOTE:** *This step duplicates final drive pinion bearing preload*

Tighten the special tool to the specified torque.

Torque: 18 lb.in (2 Nm)

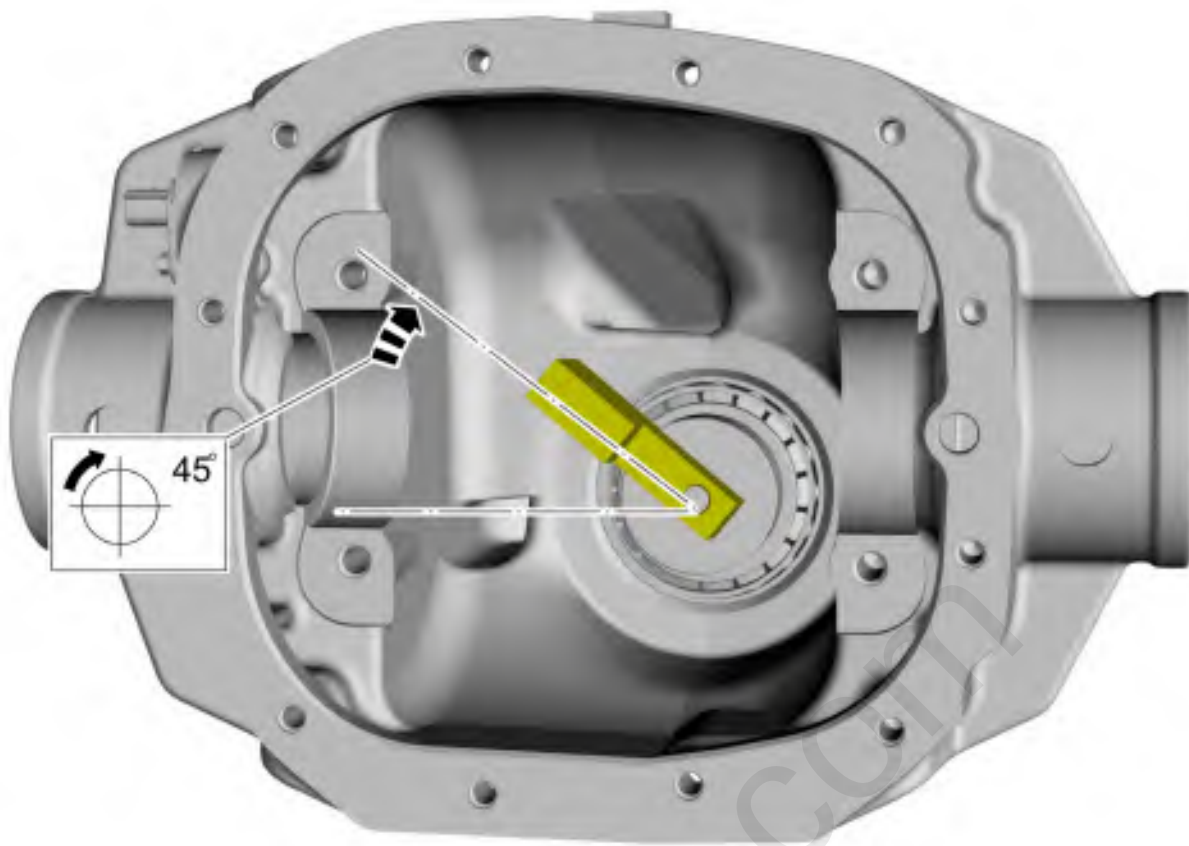
- Slowly rotate and record the rotational torque readings.



E195223

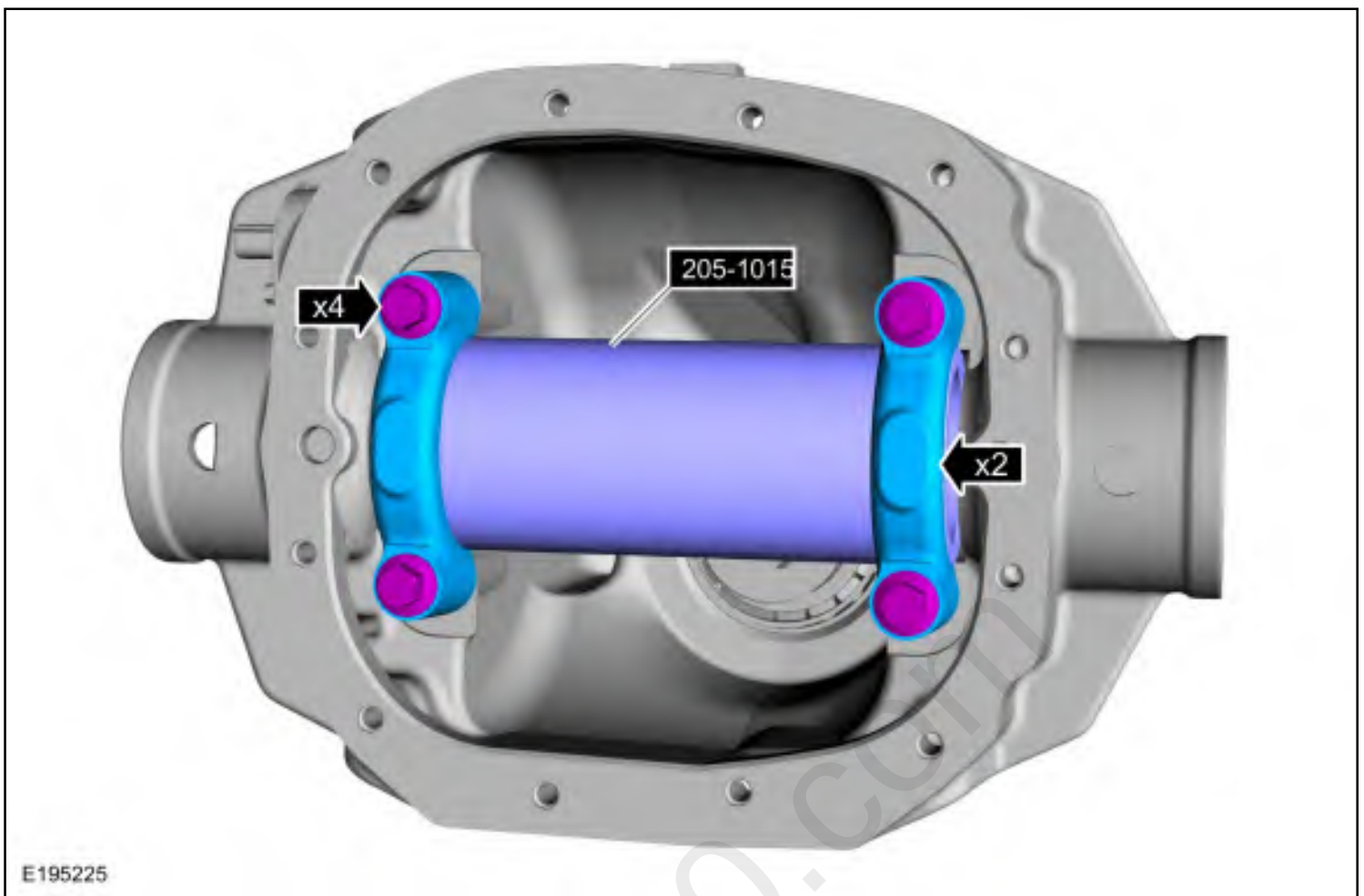


4. Check for proper location of special tools.



E195224

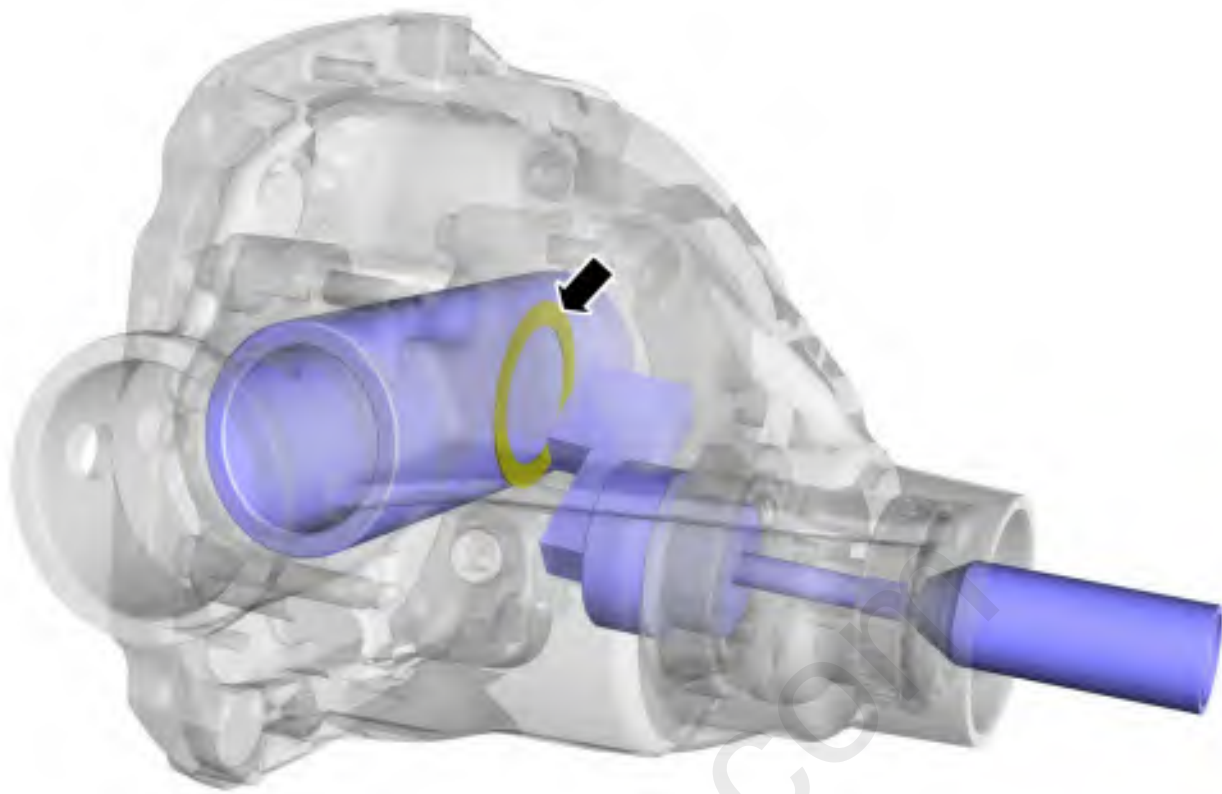
5. Position the special tool. Install the differential bearing caps and differential bearing cap bolts.
Torque: 83 lb.ft (112 Nm)



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.

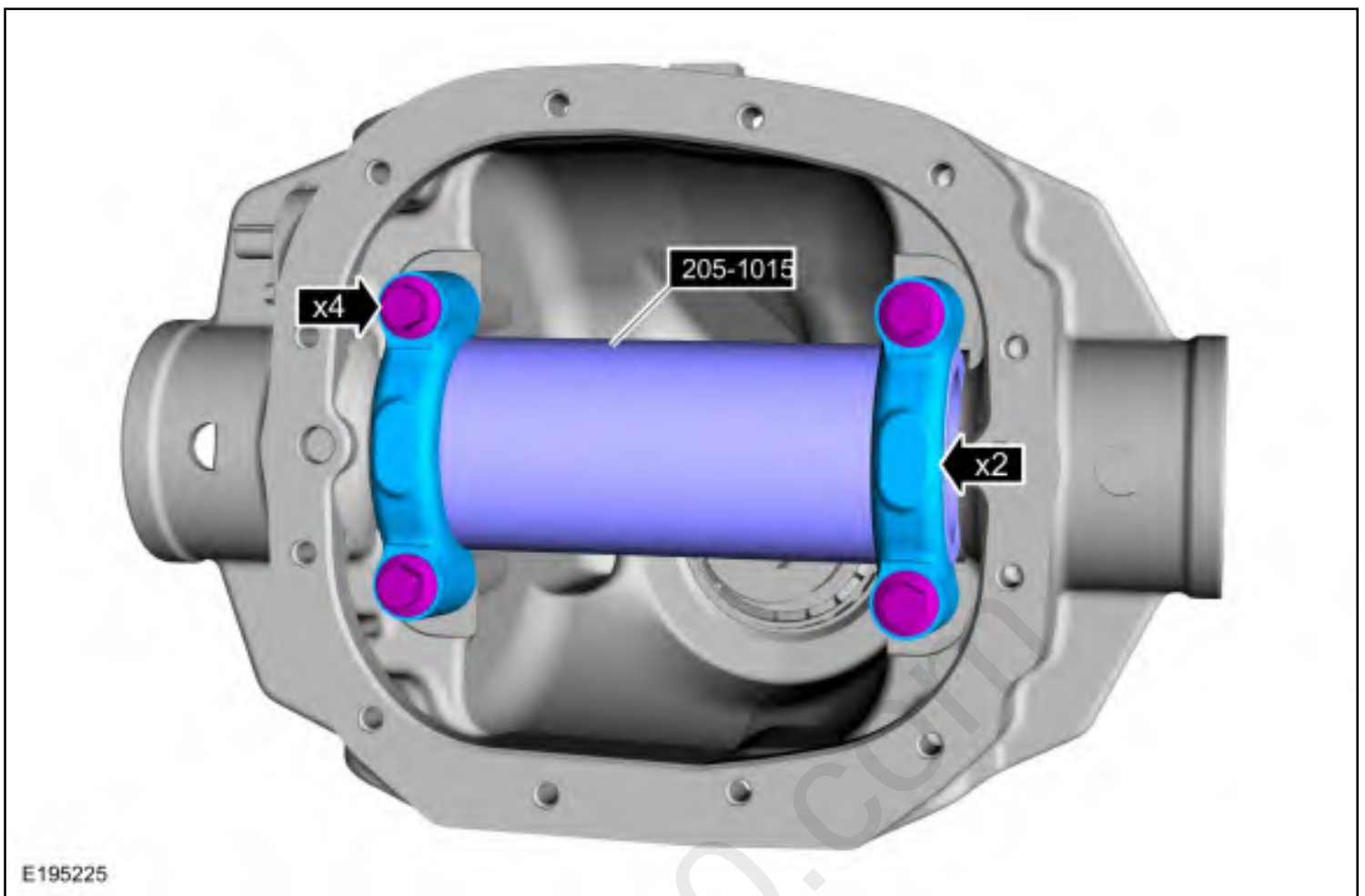
Use a drive pinion bearing adjustment shim as a gauge for drive pinion bearing adjustment shim selection.



E195226

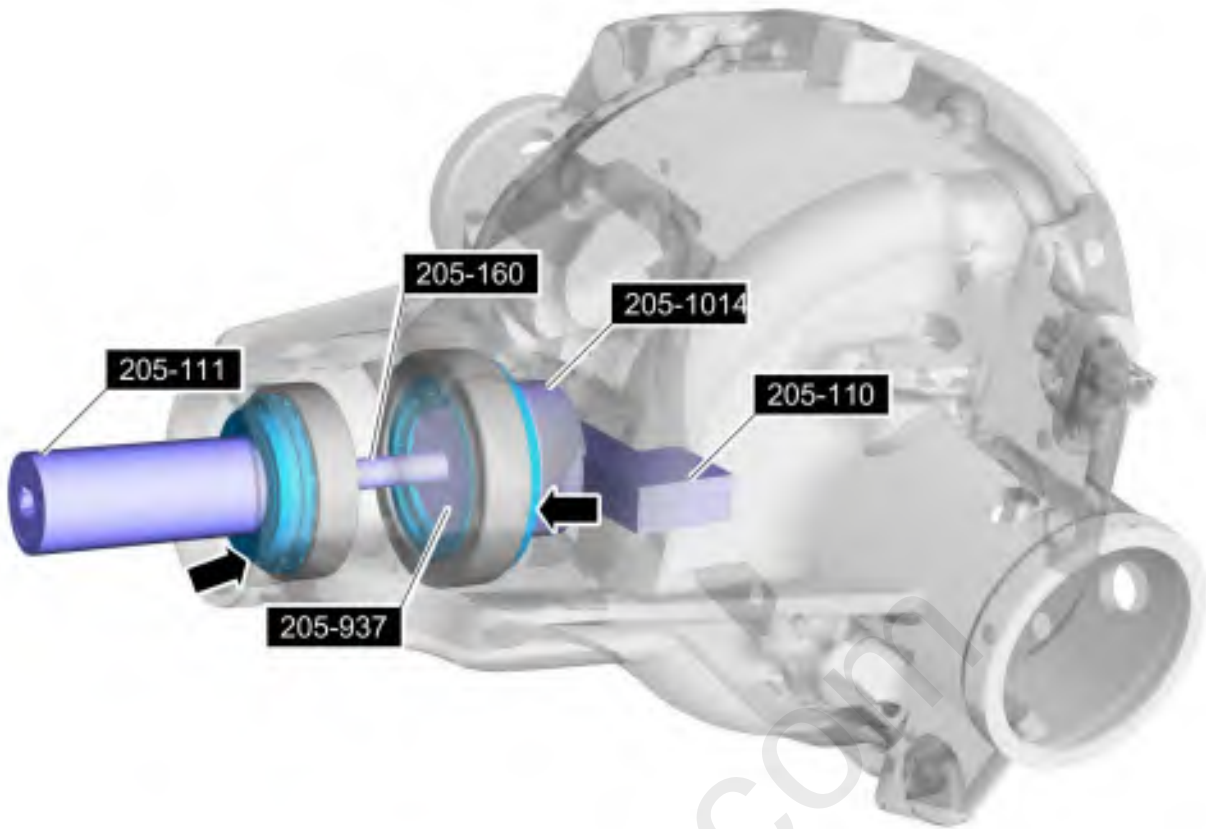
7. **NOTE:** *The differential bearing caps need to stay in the correct orientation for installation.*

Remove the differential bearing cap bolts and differential bearing caps, remove the special tools.



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.

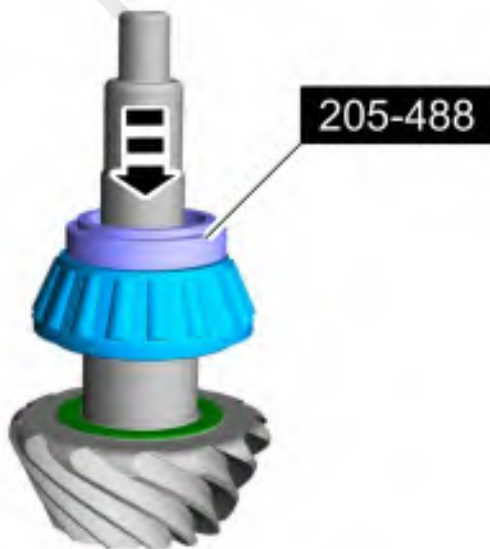


E195222

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

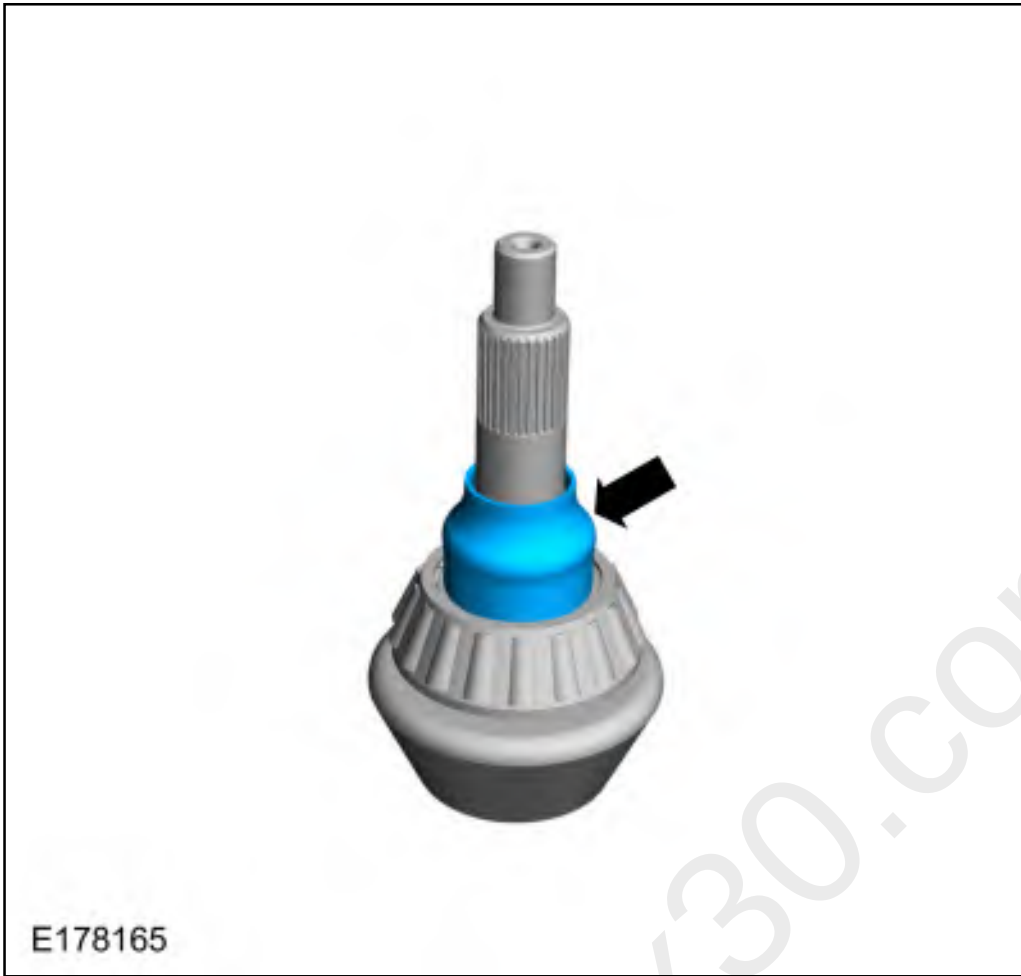
Use Special Service Tool: 205-488 Installer, Drive Pinion Bearing.

Use the General Equipment: Hydraulic Press

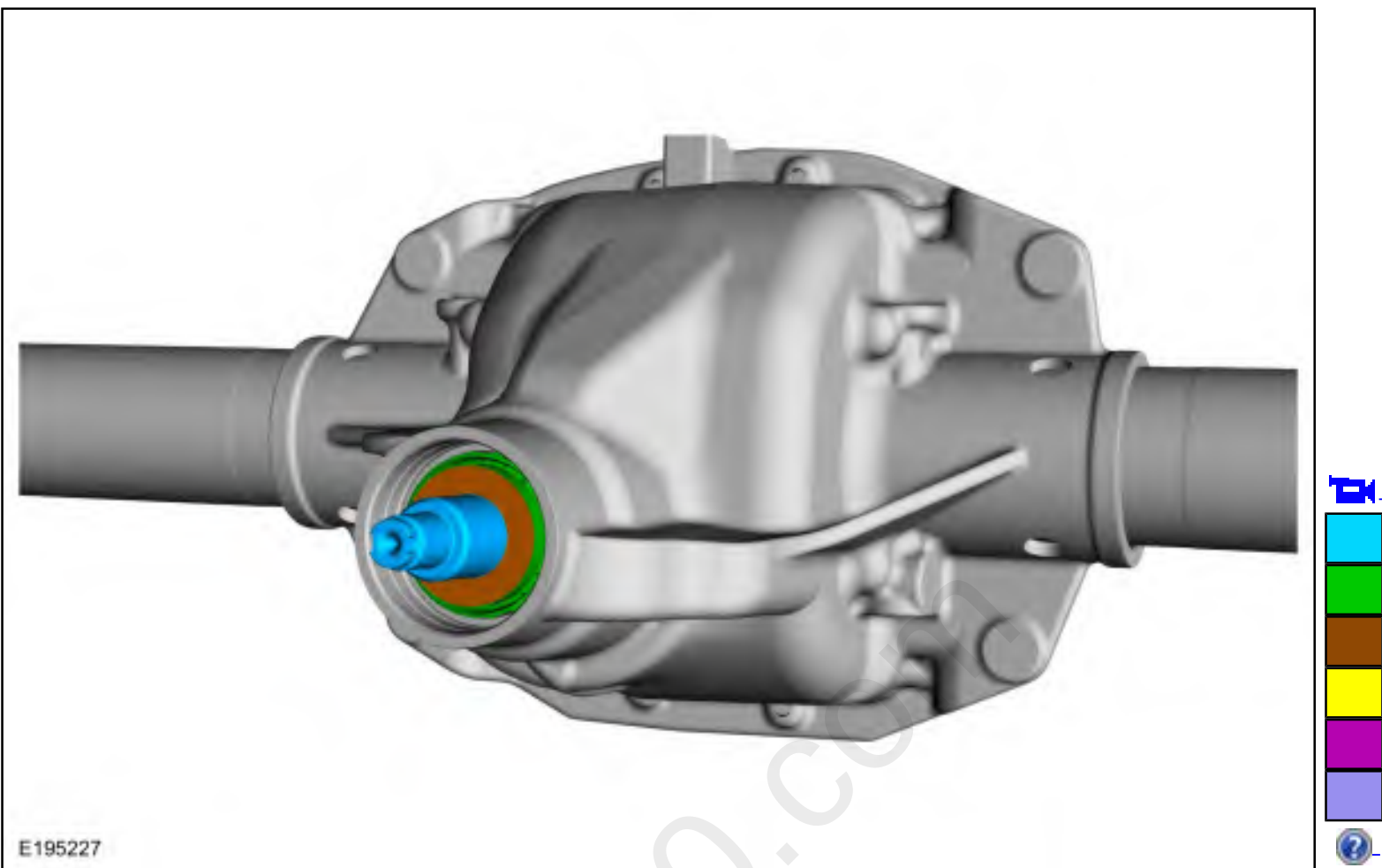


E181974

10. Install the new drive pinion collapsible spacer.



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



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).