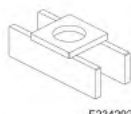
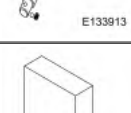
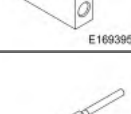
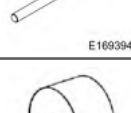
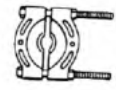


Drive Pinion

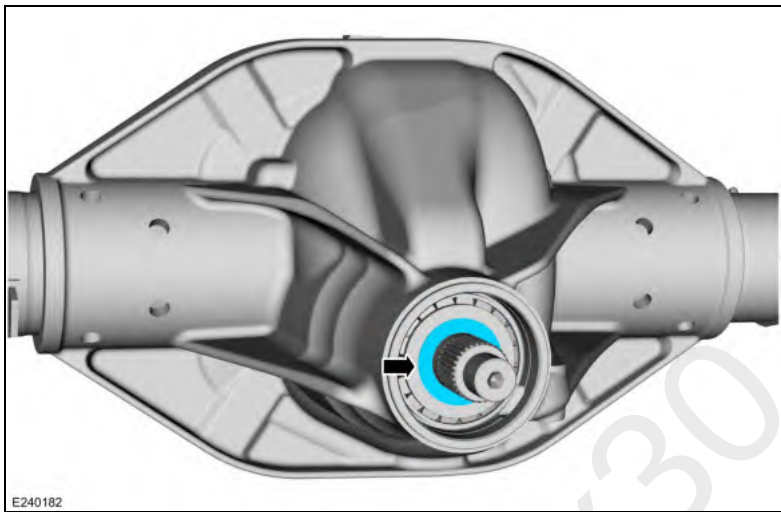
Special Tool(s) / General Equipment

 E234292	205-090 (T75L-1165-B) Plate, Bearing/Oil Seal
 E234294	205-098 (T75T-1176-A) Drawbar, Rear Axle
 E232974	205-1023 Installer, Inner Pinion Bearing Cup
 E232983	205-1032 Protector, Pinion Thread
 E232986	205-1035 Dummy Pinion Bearing
 E232987	205-1036 Gauge Tube
 E232989	205-1038 Installer, Pinion Bearing Head
 E302723	205-1070 Installer, Wheel End Seal - M300LD & M300 BRG
 E234302	205-129 (T79P-4020-A18) Disc, Gauge
 E133913	205-153 (T80T-4000-W) 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
 TKIT-1988-FLM TKIT-1988-F	205-280 (T88T-4020-A) Depth Gauge/Aligner, Drive Pinion TKIT-1988-FLM TKIT-1988-F

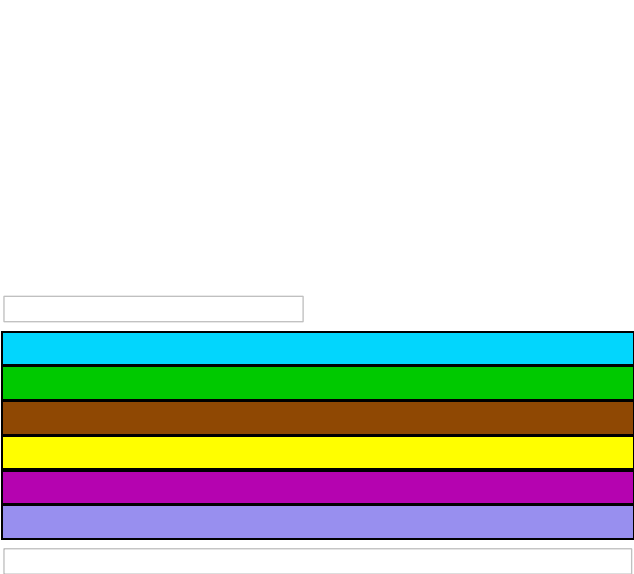
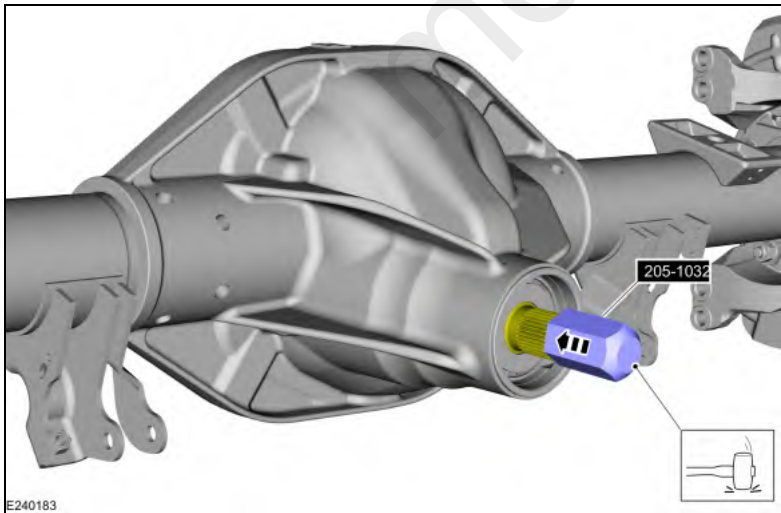
	205-281 (T88T-4020-B) Depth Gauge/Aligner, Drive Pinion (Handle) TKIT-1988-FLM TKIT-1988-F
	205-D064 (D84L-1123-A) Puller, Bearing
Hydraulic Press	
Punch	
Copper Hammer	

Removal

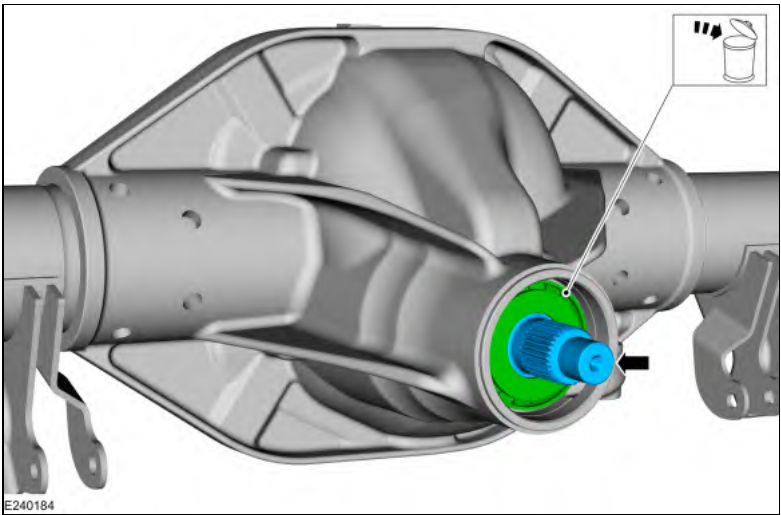
1. Remove the differential carrier.
Refer to: Differential Carrier (205-02B Rear Drive Axle/Differential - Vehicles With: Dana M300, Removal and Installation).
2. Remove the drive pinion seal.
Refer to: Drive Pinion Seal (205-02B Rear Drive Axle/Differential - Vehicles With: Dana M300, Removal and Installation).
3. Remove the drive pinion outer thrust washer.



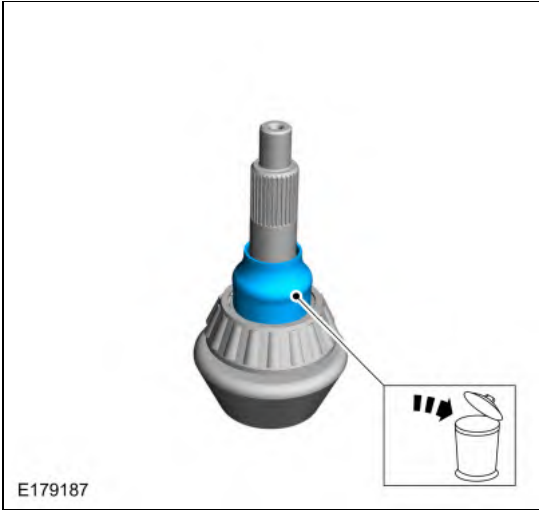
4. Using the special tool and a soft face mallet, tap the drive pinion free of the of the drive pinion outer bearing.
Use Special Service Tool: 205-1032 Protector, Pinion Thread.
Use the General Equipment: Copper Hammer



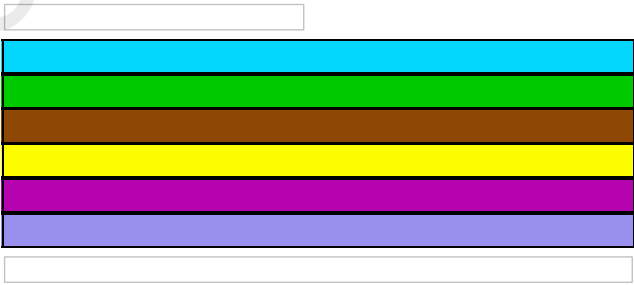
5. Remove the drive pinion and remove and discard the drive pinion outer bearing.



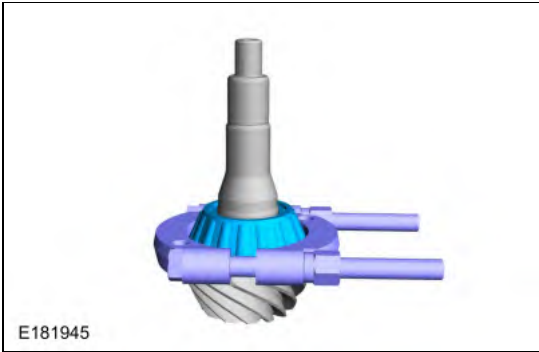
6. Remove and discard the drive pinion collapsible spacer.



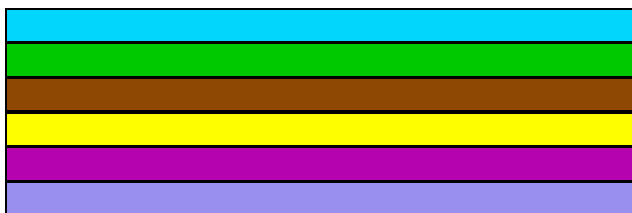
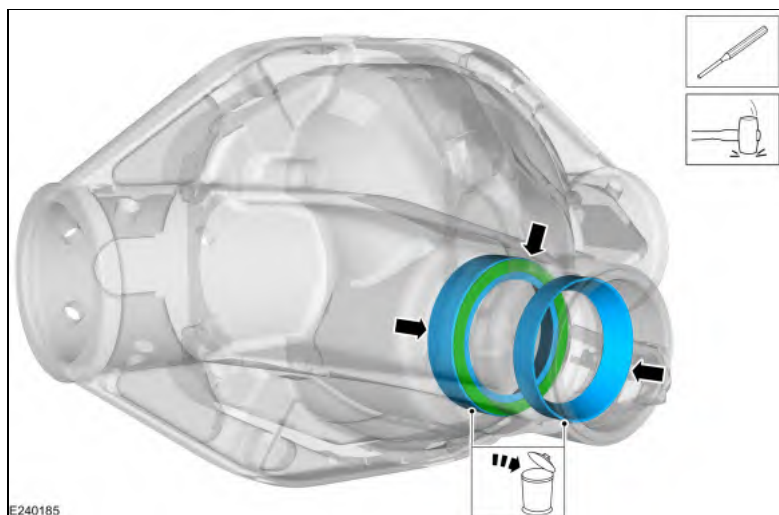
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7. Using the bearing puller and a hydraulic press, remove and discard the inner drive pinion bearing.
Use Special Service Tool: 205-D064 (D84L-1123-A) Puller, Bearing.
Use the General Equipment: Hydraulic Press



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

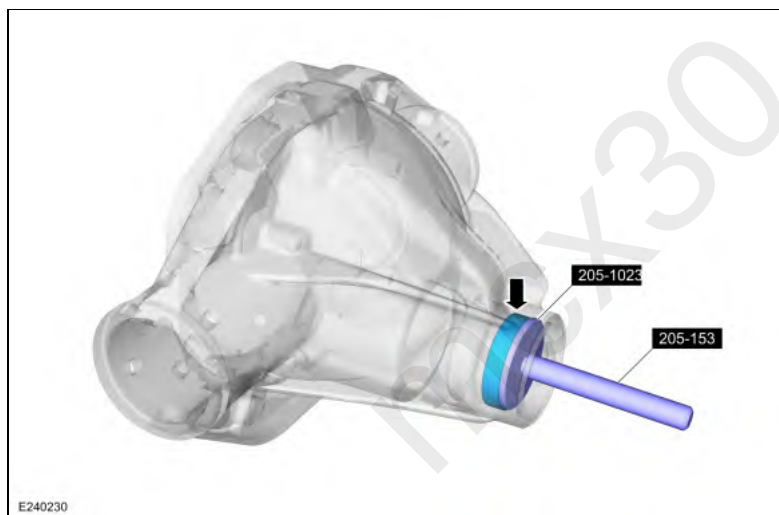


Installation

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 outer drive pinion bearing cup.

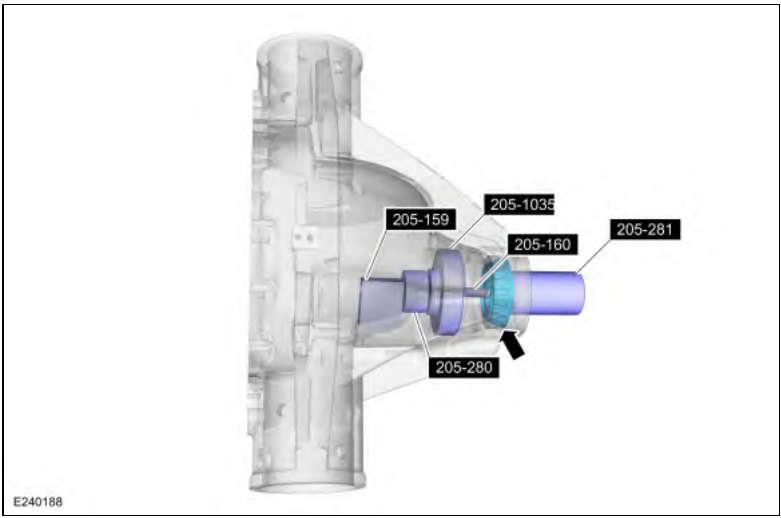
Use Special Service Tool: 205-153 (T80T-4000-W) Handle. , 205-1023 Installer, Inner Pinion Bearing Cup.



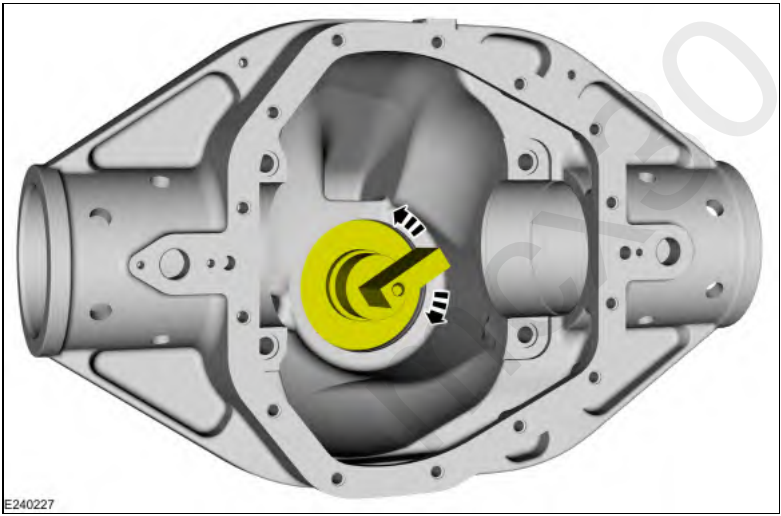
2. **NOTE:** Only tighten finger tight at this stage.

Assemble the pinion depth special tools and the new outer bearing in the differential housing.

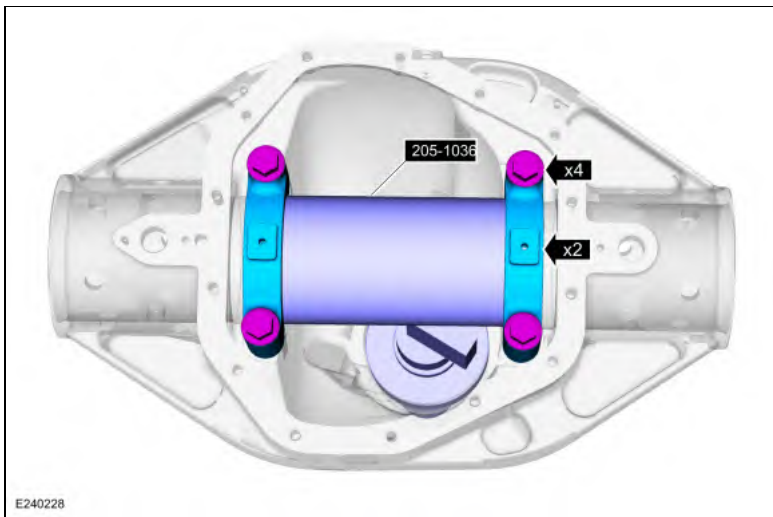
Use Special Service Tool: 205-159 (T80T-4020-F42) Adapter for 205-S156 Pinion Depth Gauge. , 205-160 (T80T-4020-F43) Adapter for 205-S156 Pinion Depth Gauge. , 205-280 (T88T-4020-A) Depth Gauge/Aligner, Drive Pinion. , 205-281 (T88T-4020-B) Depth Gauge/Aligner, Drive Pinion (Handle). , 205-1035 Dummy Pinion Bearing.



- 3.
- Tighten special tools and check for clear rotation.
 - **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.



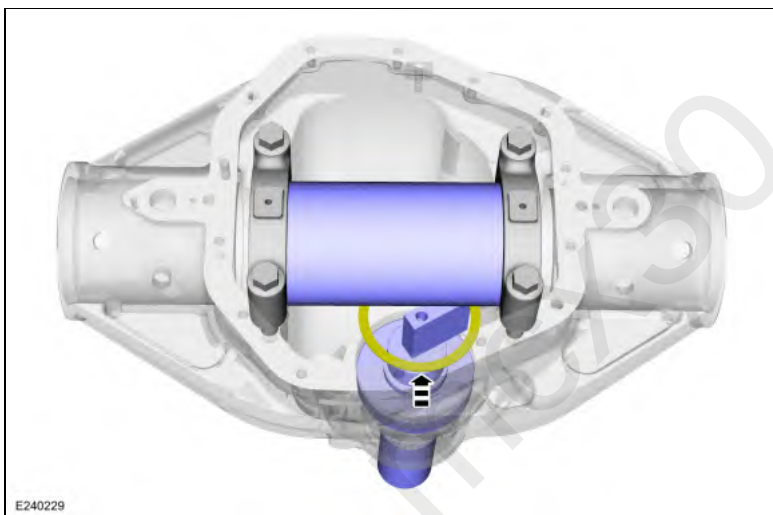
4. Install the special tool and the differential bearing caps and differential bearing cap bolts.
Use Special Service Tool: 205-1036 Gauge Tube.
Torque: 83 lb.ft (112 Nm)



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

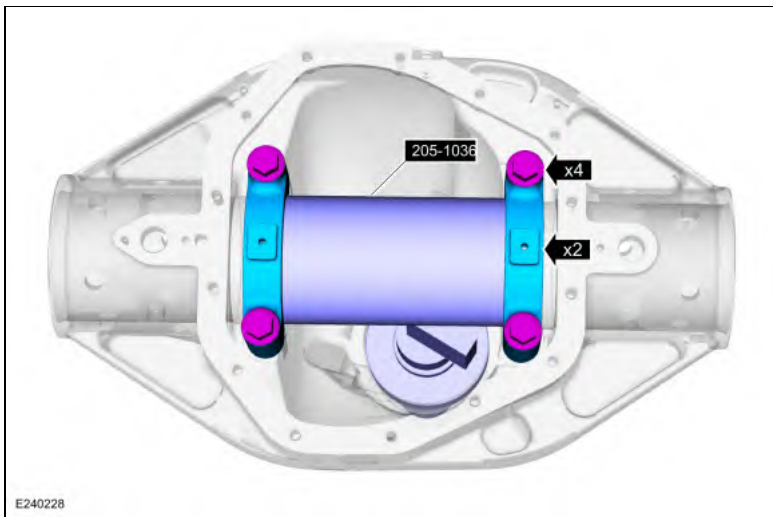
NOTE: A slight drag should be felt for correct drive pinion bearing adjustment shim selection. Do not attempt to force the drive pinion bearing adjustment shim between the gauge block and the gauge tube. This will minimize selection of a drive pinion bearing adjustment shim thicker than required, which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

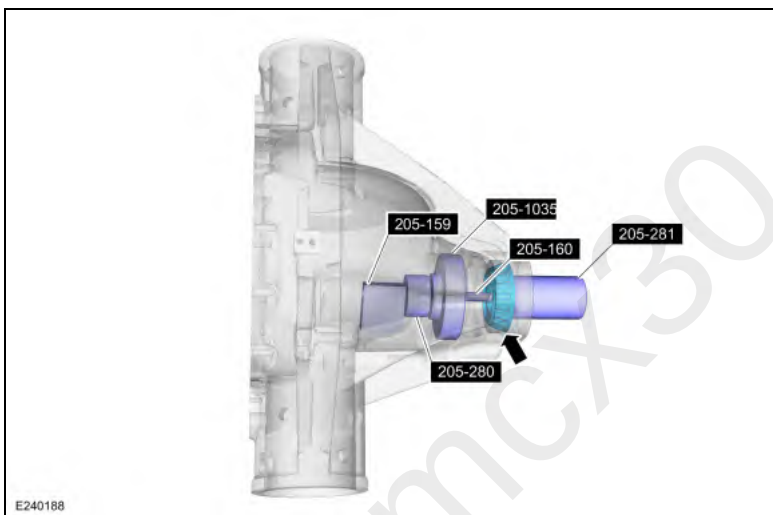


6. **NOTE:** The differential bearing caps need to stay in the correct orientation for installation.

Remove the differential bearing cap bolts and differential bearing caps, remove the special tools.
Use Special Service Tool: 205-1036 Gauge Tube.

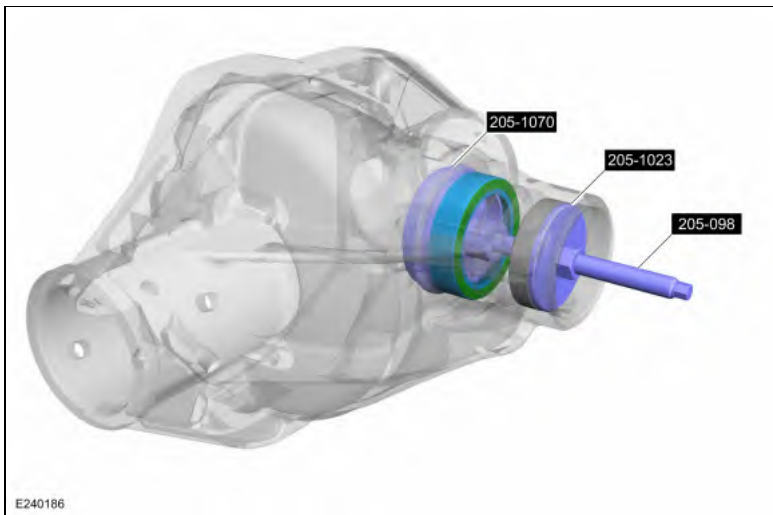


7. Remove the special tools and the outer pinion bearing.
 Use Special Service Tool: 205-129 (T79P-4020-A18) Disc, Gauge. , 205-159 (T80T-4020-F42) Adapter for 205-S156 Pinion Depth Gauge. , 205-160 (T80T-4020-F43) Adapter for 205-S156 Pinion Depth Gauge. , 205-280 (T88T-4020-A) Depth Gauge/Aligner, Drive Pinion. , 205-281 (T88T-4020-B) Depth Gauge/Aligner, Drive Pinion (Handle). , 205-1035 Dummy Pinion Bearing.

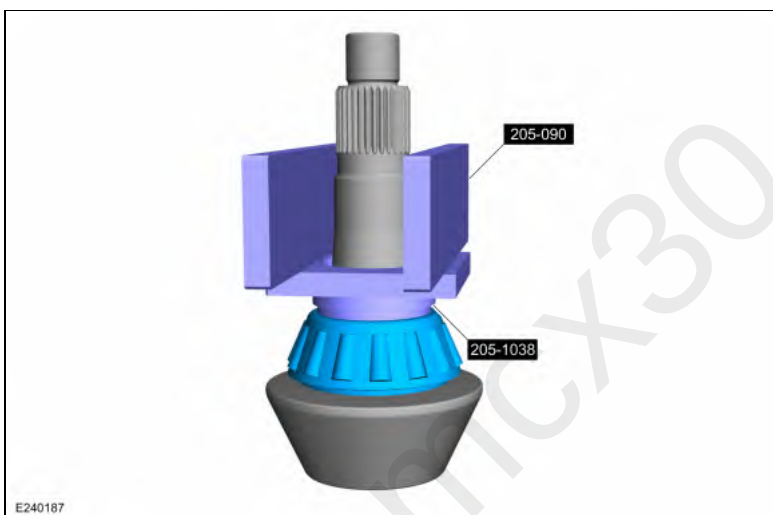


8. **NOTE:** Make sure the drive pinion bearing cups are seated correctly or damage to the components may occur.

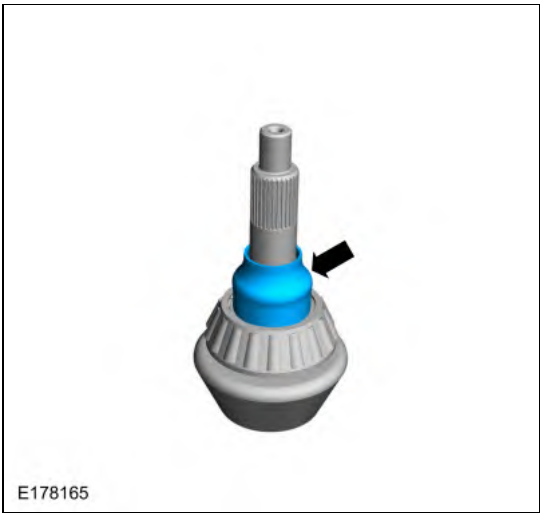
Using the special tools, install the selected pinion depth shim and the new inner drive pinion bearing cup.
 Use Special Service Tool: 205-098 (T75T-1176-A) Drawbar, Rear Axle. , 205-1023 Installer, Inner Pinion Bearing Cup. , 205-1070 Installer, Wheel End Seal - M300LD & M300 BRG.



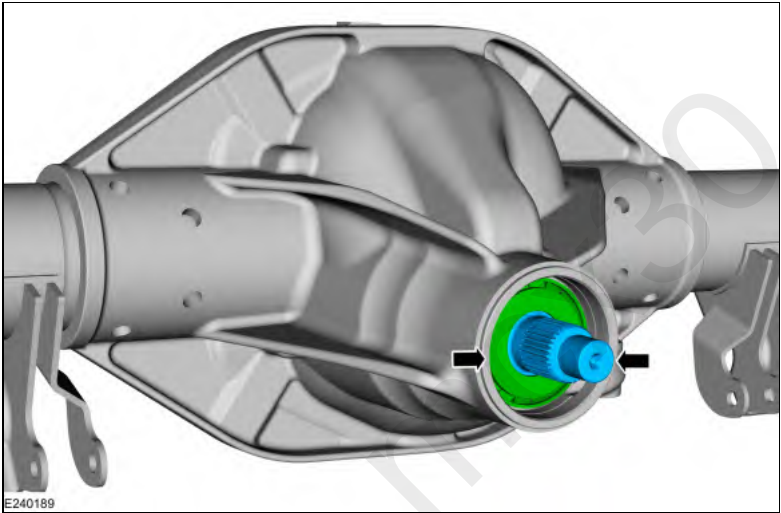
9. Install the drive pinion inner bearing until it is firmly seated on the drive pinion.
 Use Special Service Tool: 205-090 (T75L-1165-B) Plate, Bearing/Oil Seal , 205-1038 Installer, Pinion Bearing Head.
 Use the General Equipment: Hydraulic Press



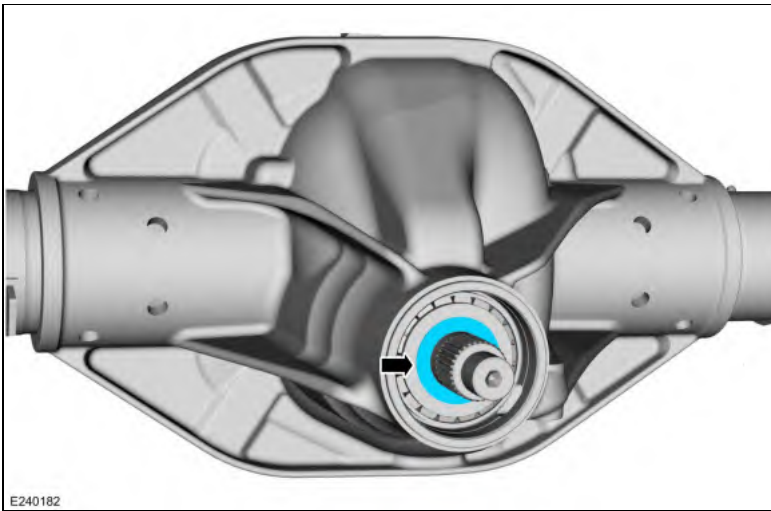
10. Install the new drive pinion collapsible spacer.



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



12. Install the drive pinion outer thrust washer.



13. Install the drive pinion seal.
Refer to: Drive Pinion Seal (205-02B Rear Drive Axle/Differential - Vehicles With: Dana M300, Removal and Installation).
14. Install the differential carrier.
Refer to: Differential Carrier (205-02B Rear Drive Axle/Differential - Vehicles With: Dana M300, Removal and Installation).