

Differential Carrier

Special Tool(s) / General Equipment

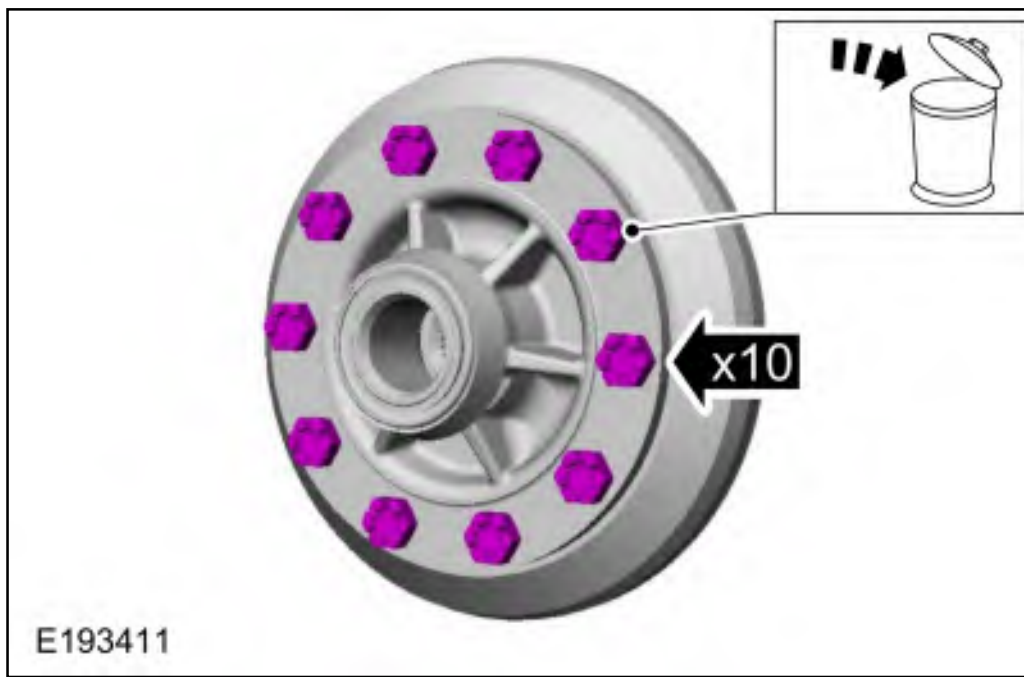
	205-386 (T97T-4205-D) Gauge, Differential (Traction Lock) TKIT-1997-F/FLM/LT TKIT-1998-LM (NavigatoR)
Hydraulic Press	
Punch	
Copper Hammer	
Bearing Separator	

Materials

Name	Specification
Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant XY-75W85-QL	WSS-M2C942-A

DISASSEMBLY

1. Remove the differential carrier.
Refer to: [Differential Carrier](#) (205-03 Front Drive Axle/Differential, Removal and Installation).
2. Remove and discard the differential ring gear bolts.

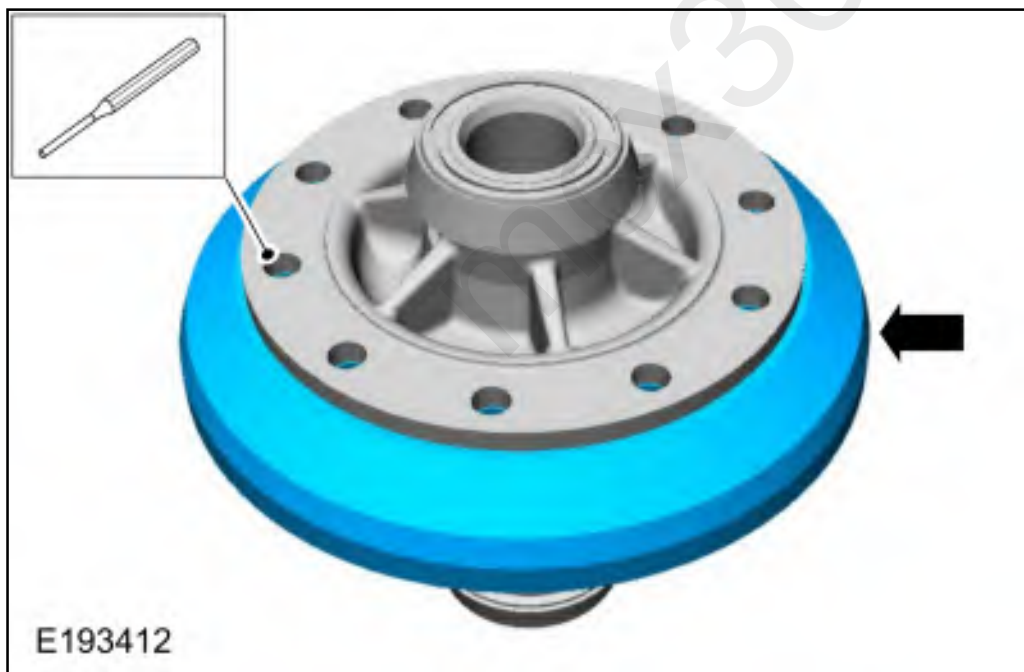


3. **NOTICE:** Care should be taken not to damage the differential ring gear bolt hole threads.

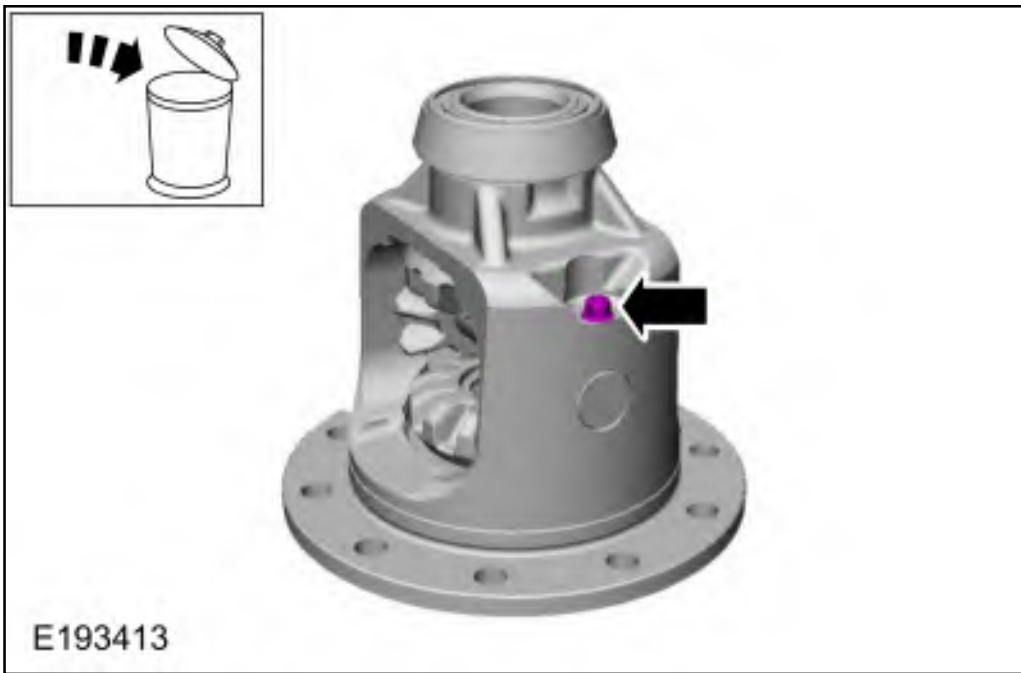
Using a brass punch and copper hammer, separate the ring gear from the differential case.

Use the General Equipment: Punch

Use the General Equipment: Copper Hammer



4. Remove and discard the differential pinion shaft bolt.



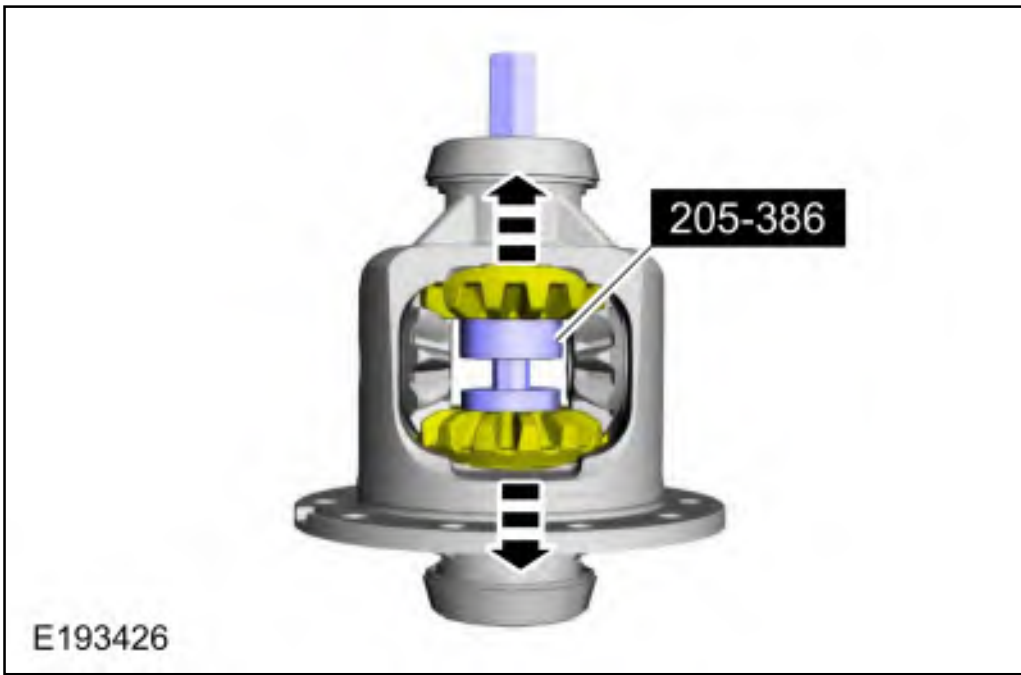
5. Remove the differential pinion shaft.



6. **NOTE:** Do not over tighten the special tool.

Using the special tool, compress the differential side gear wave washers.

Use Special Service Tool: 205-386 (T97T-4205-D) Gauge, Differential (Traction Lock).

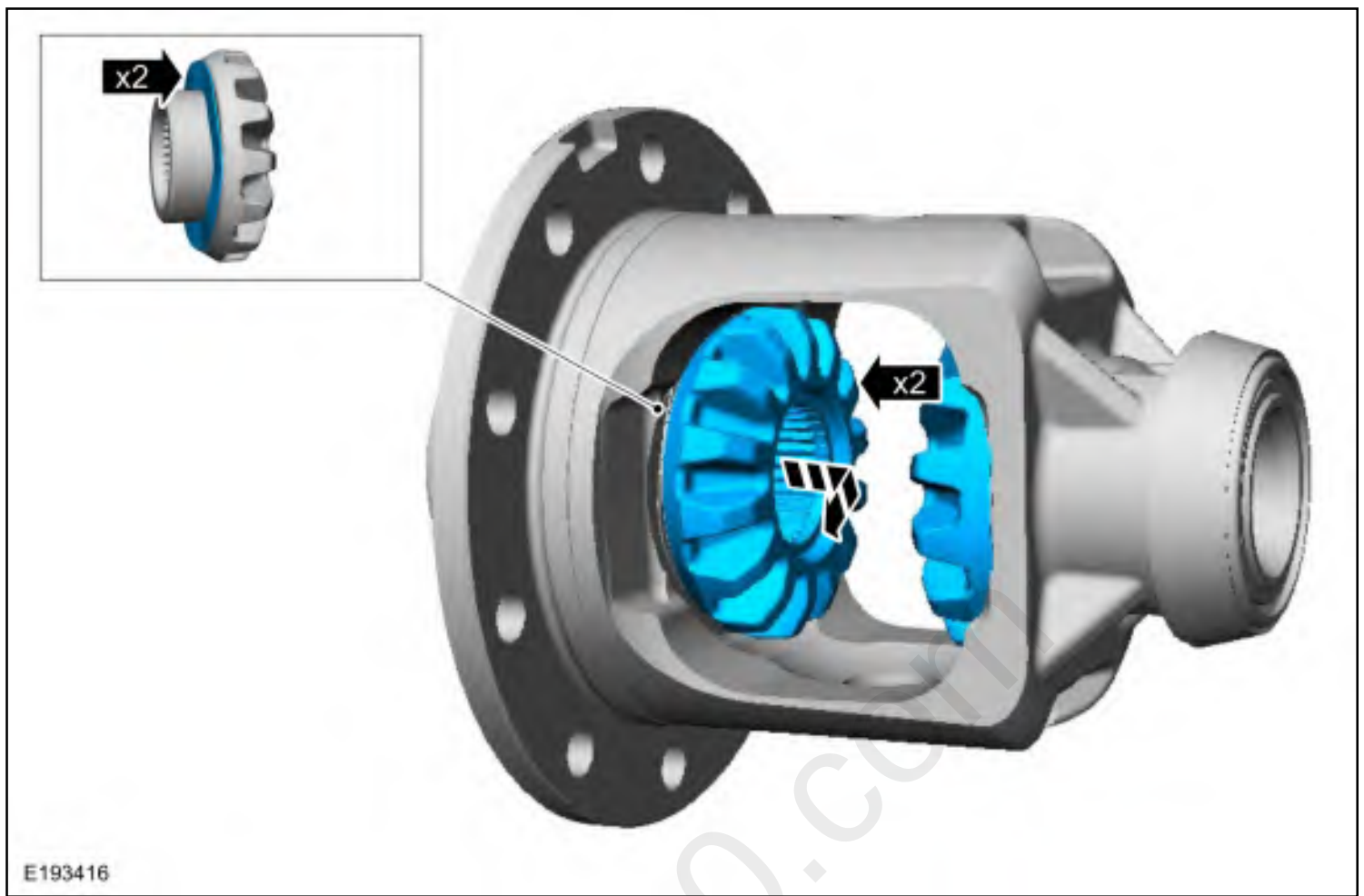


7. Remove the differential pinion thrust washers and the differential pinion gears.



8. **NOTE:** Note the position of the differential side gear wave washer for reassembly.

Remove the differential side gear assemblies.

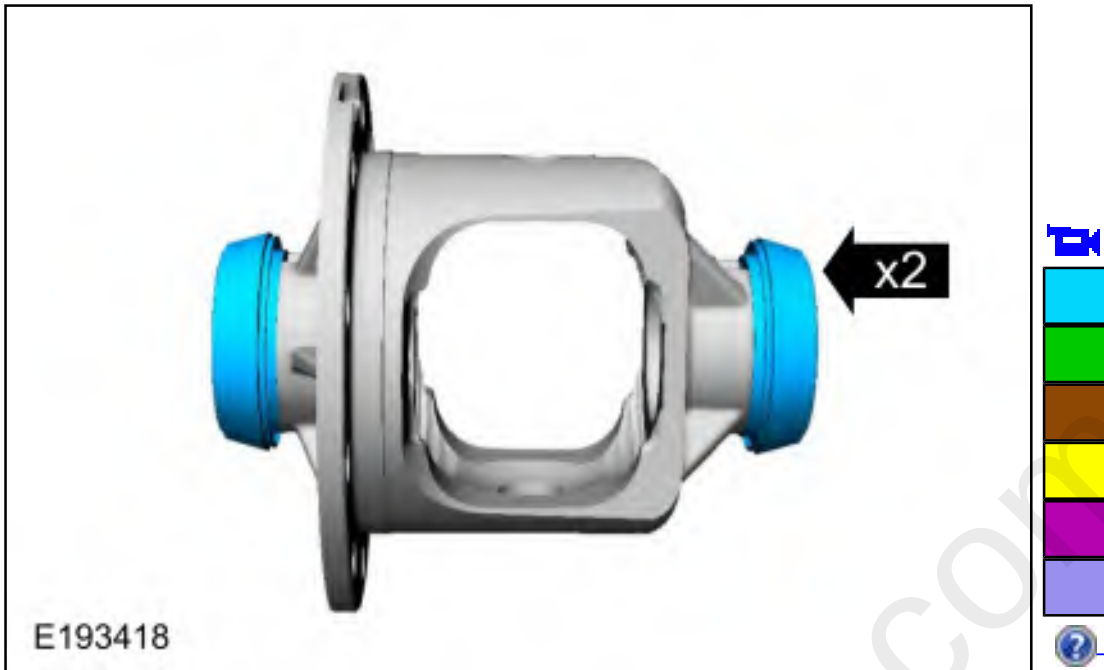


9. Using the general equipment: remove and discard the differential side bearings.
 Use the General Equipment: Hydraulic Press
 Use the General Equipment: Bearing Separator

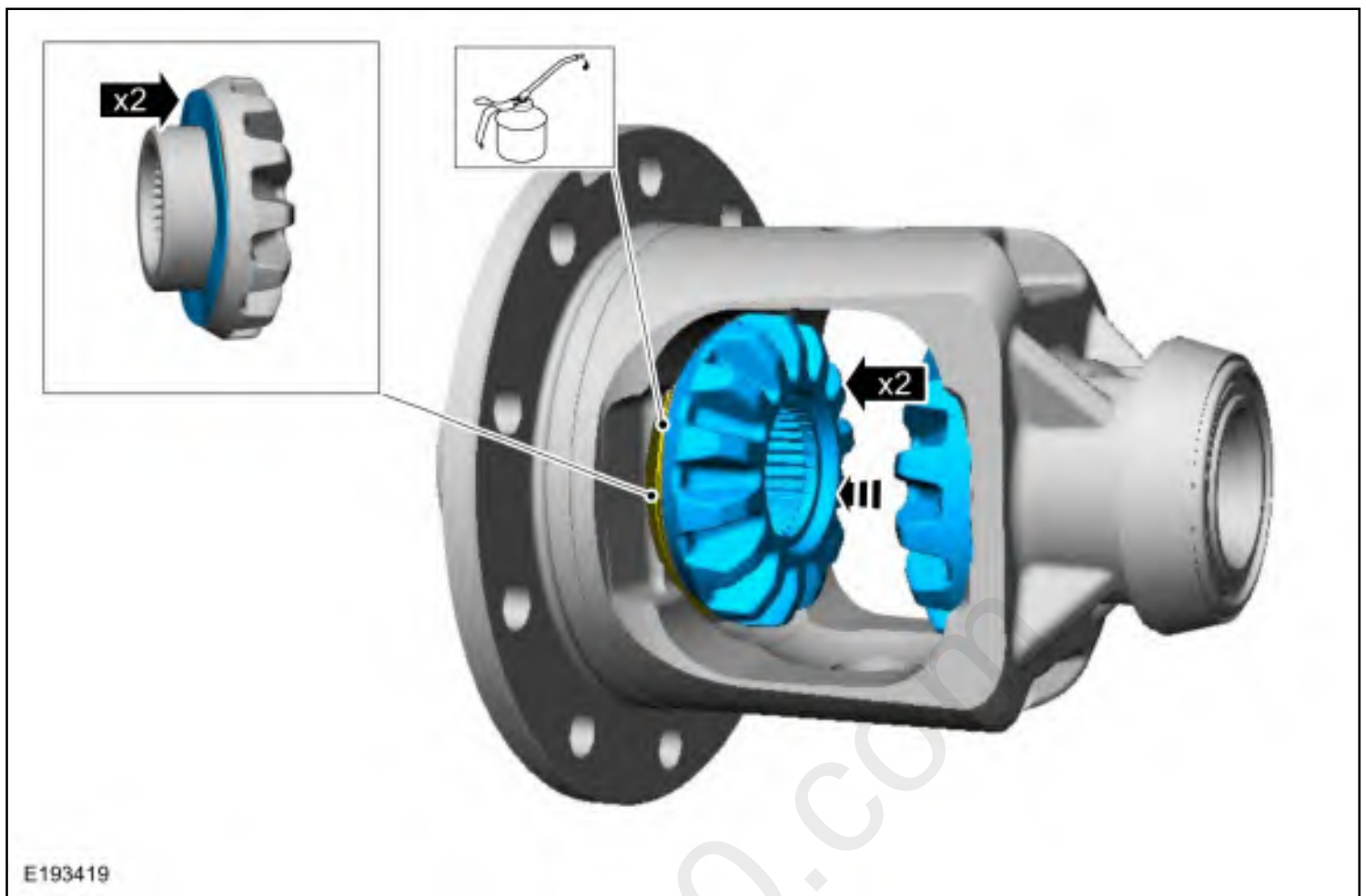


ASSEMBLY

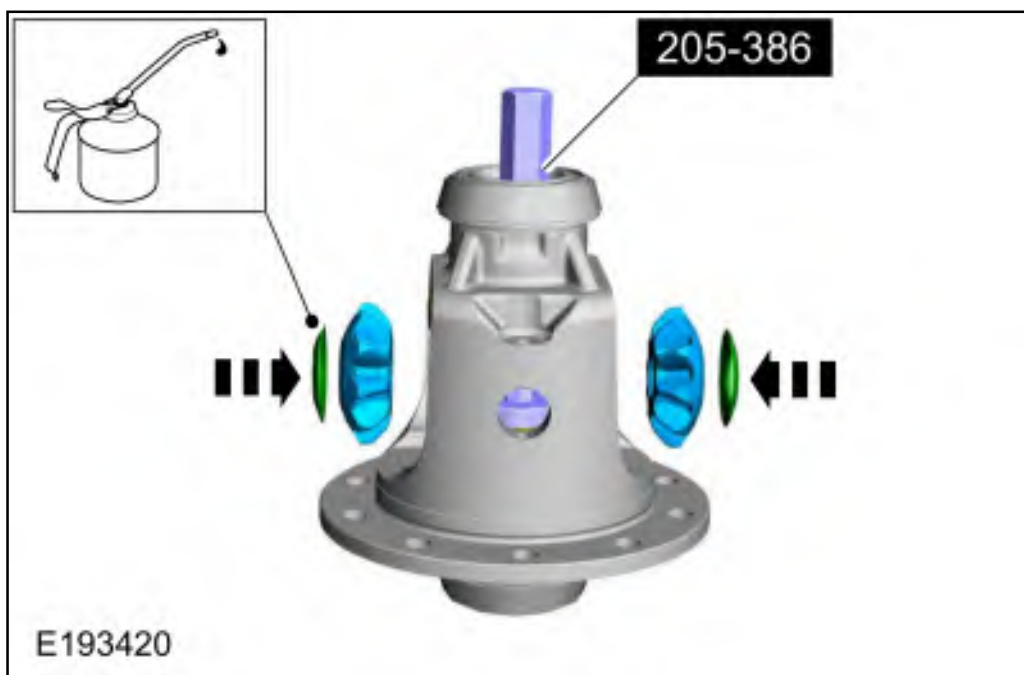
1. Using the general equipment; Install the new differential side bearings.
Use the General Equipment: Hydraulic Press



2. Install the differential side gears in the differential carriers.
 - Lubricate the differential wave washer with axle lubricant.
Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)
 - Install the differential wave washer on the differential side gear.
 - Install the differential side gear assemblies into differential carrier.



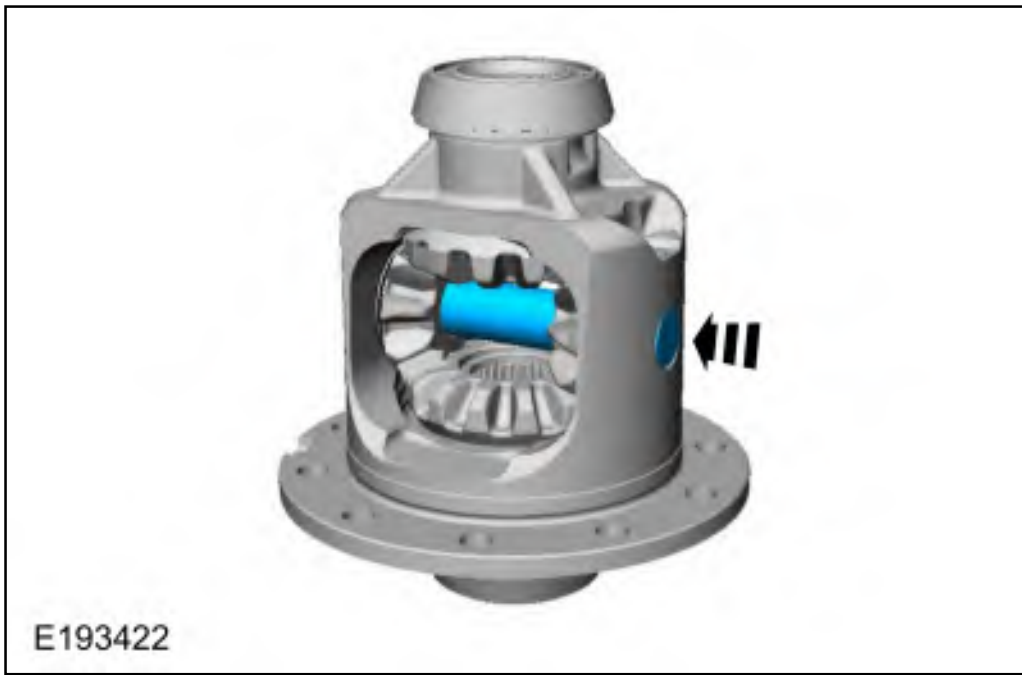
3. With the special tool installed, lubricate the differential pinion thrust washers and the differential pinion gears with axle lubricant and assemble them.
Use Special Service Tool: 205-386 (T97T-4205-D) Gauge, Differential (Traction Lock).
Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)



4. Using the special tool, rotate the differential pinion gears to align with the differential pinion shaft bore and remove the special tool.
Use Special Service Tool: 205-386 (T97T-4205-D) Gauge, Differential (Traction Lock).



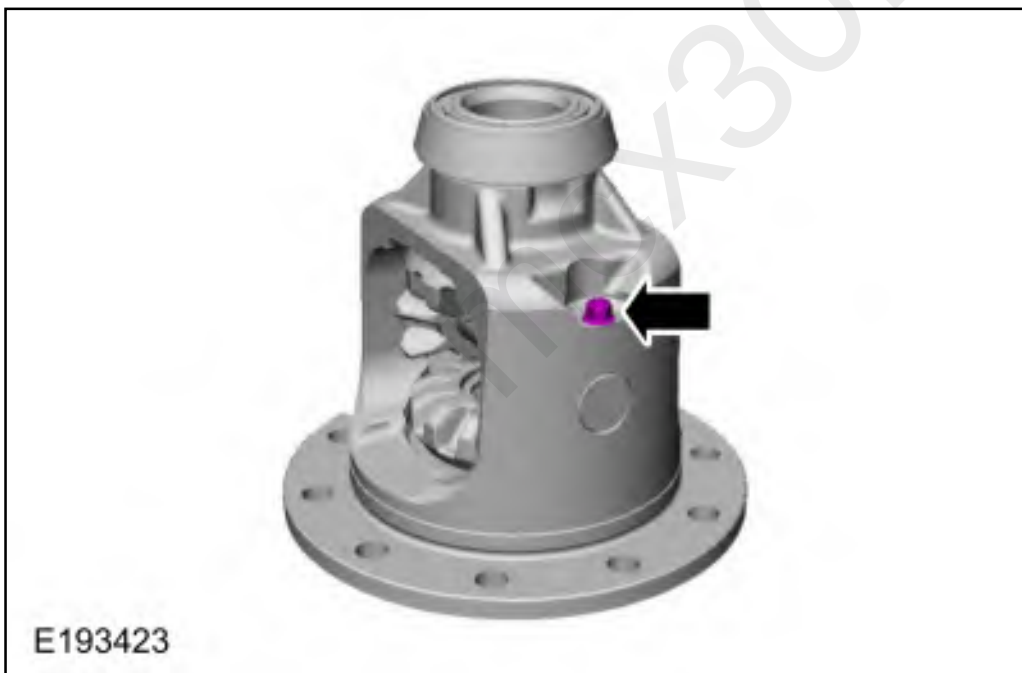
5. Install the differential pinion shaft.



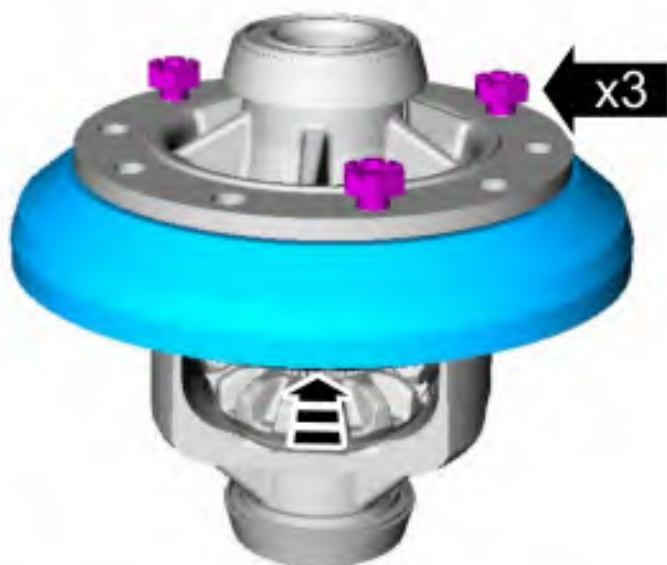
6. **NOTE:** *If a new pinion shaft bolt is unavailable, coat the threads with sealer.*

Install the new differential pinion shaft bolt.

Torque: 22 lb.ft (30 Nm)



7. Install the ring gear onto the differential carrier. Align the ring gear using 3 new bolts. Using the general equipment: press the ring gear into place.
Use the General Equipment: Hydraulic Press



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8. Install the remaining new ring gear bolts.
Torque: 94 lb.ft (128 Nm)



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9. Install the differential carrier.
Refer to: [Differential Carrier](#) (205-03 Front Drive Axle/Differential, Removal and Installation).