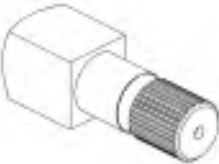
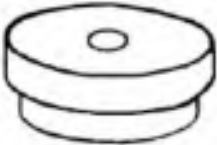


Differential Carrier

Special Tool(s) / General Equipment

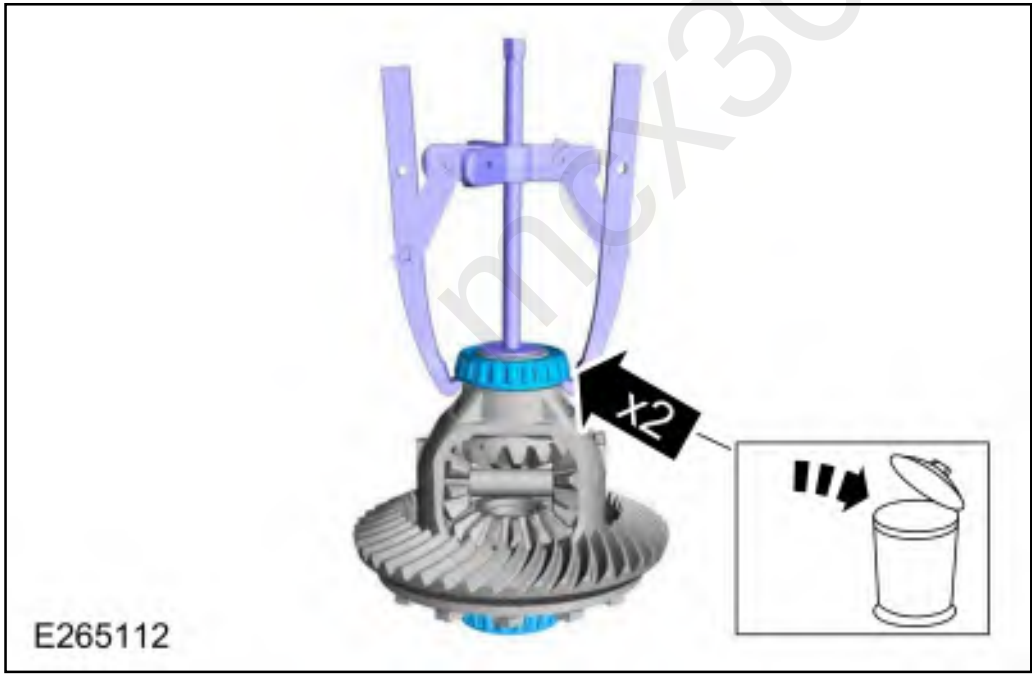
 E188621	205-1016 Installer, Differential Bearing TKIT-2014D-FL_ROW TKIT-2014D-ROW2
 E133913	205-153 (T80T-4000-W) Handle
 E238630	205-384 (T97T-4205-A) Gauge, Differential (Traction Lock) TKIT-1997-F/FLM/LT TKIT-1998-LM (NavigatoR)
	205-D061 (D83T-4205-C2) Step Plate
 E155534	205-D072 (D97L-4221-A) 2 Jaw Puller
Punch	

Materials

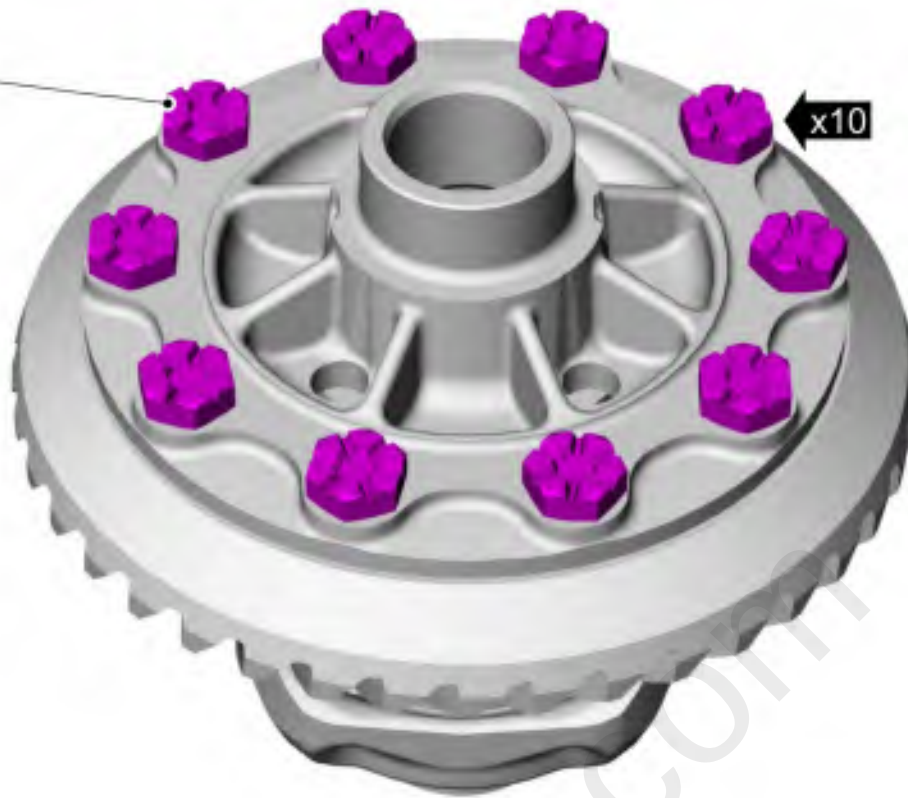
Name	Specification
Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant XY-75W85-QL	WSS-M2C942-A
Maximum Strength Retaining Compound Loctite® 638™	WSK-M2G349-A8

DISASSEMBLY

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. Using the general equipment, remove and discard the differential bearings.
Use Special Service Tool: 205-D072 (D97L-4221-A) 2 Jaw Puller. , 205-D061 (D83T-4205-C2) Step Plate.



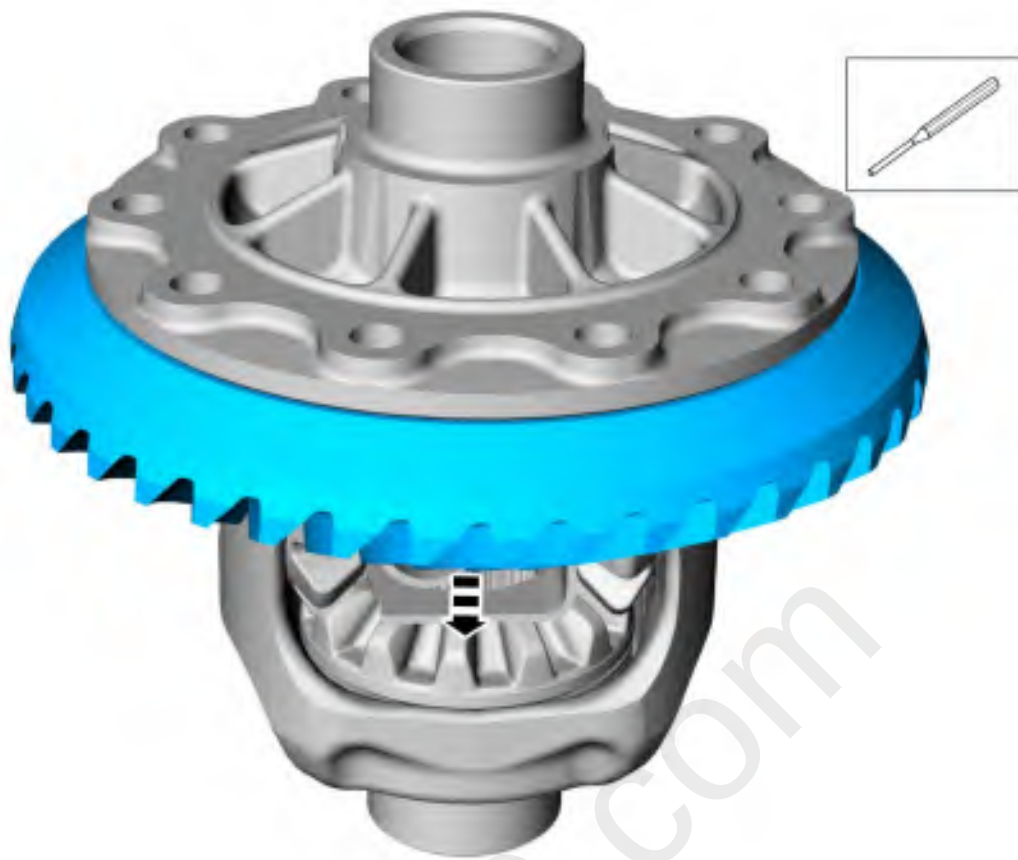
3. Remove and discard the ring gear bolts.



E188074



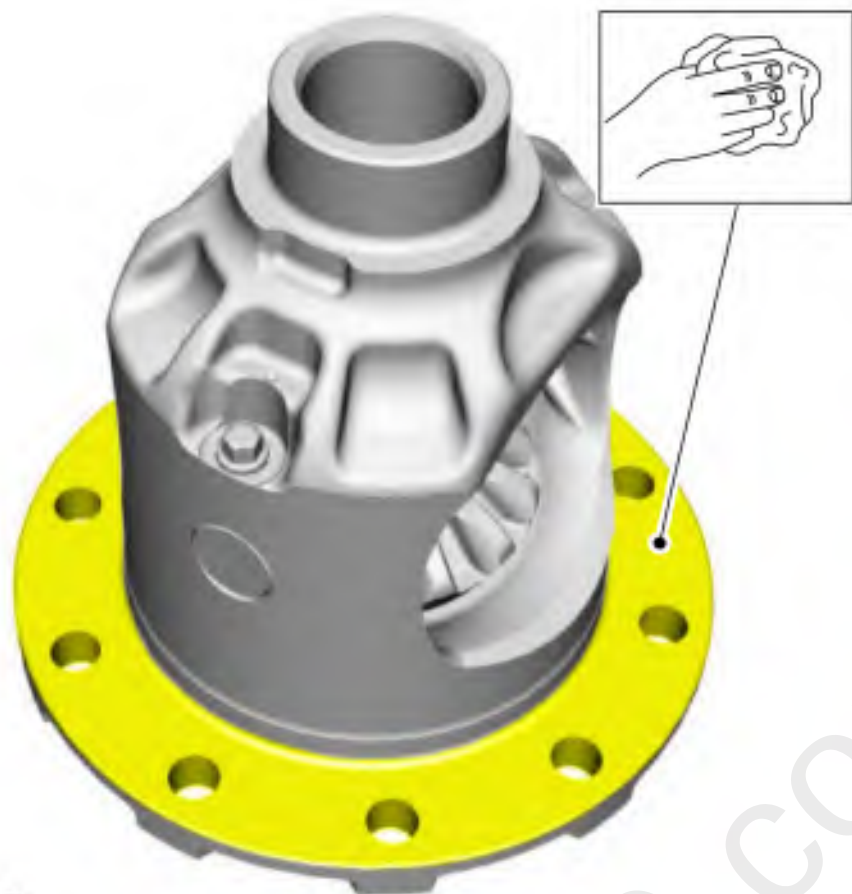
4. Using the brass punch and a soft face hammer, remove the ring gear.
Use the General Equipment: Punch
Use the General Equipment: Copper Hammer



E188075



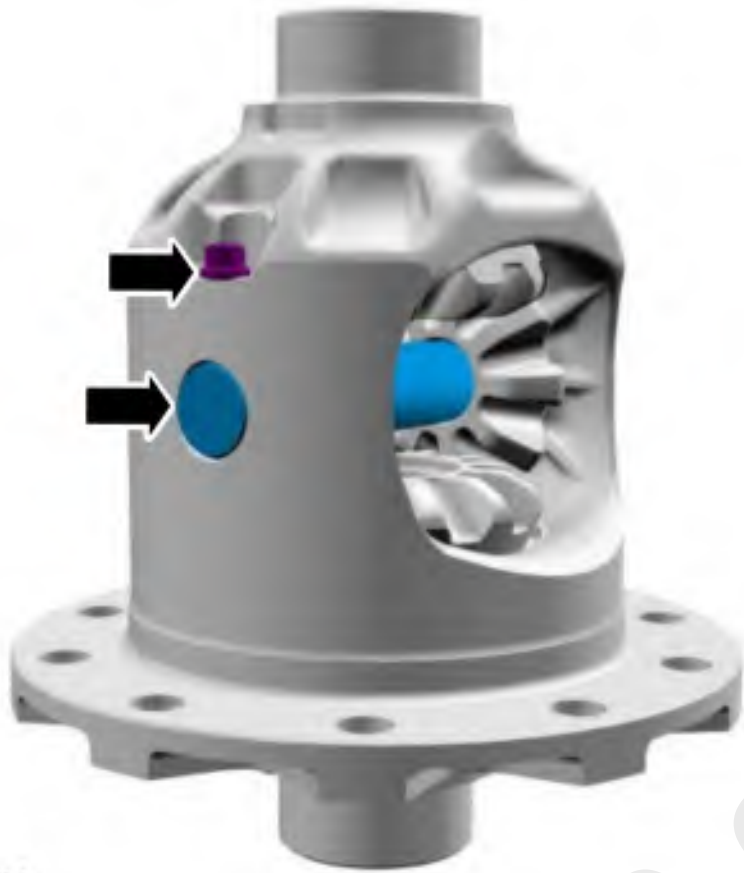
5. Make sure the differential case flange is clean and free of foreign material.



E198187



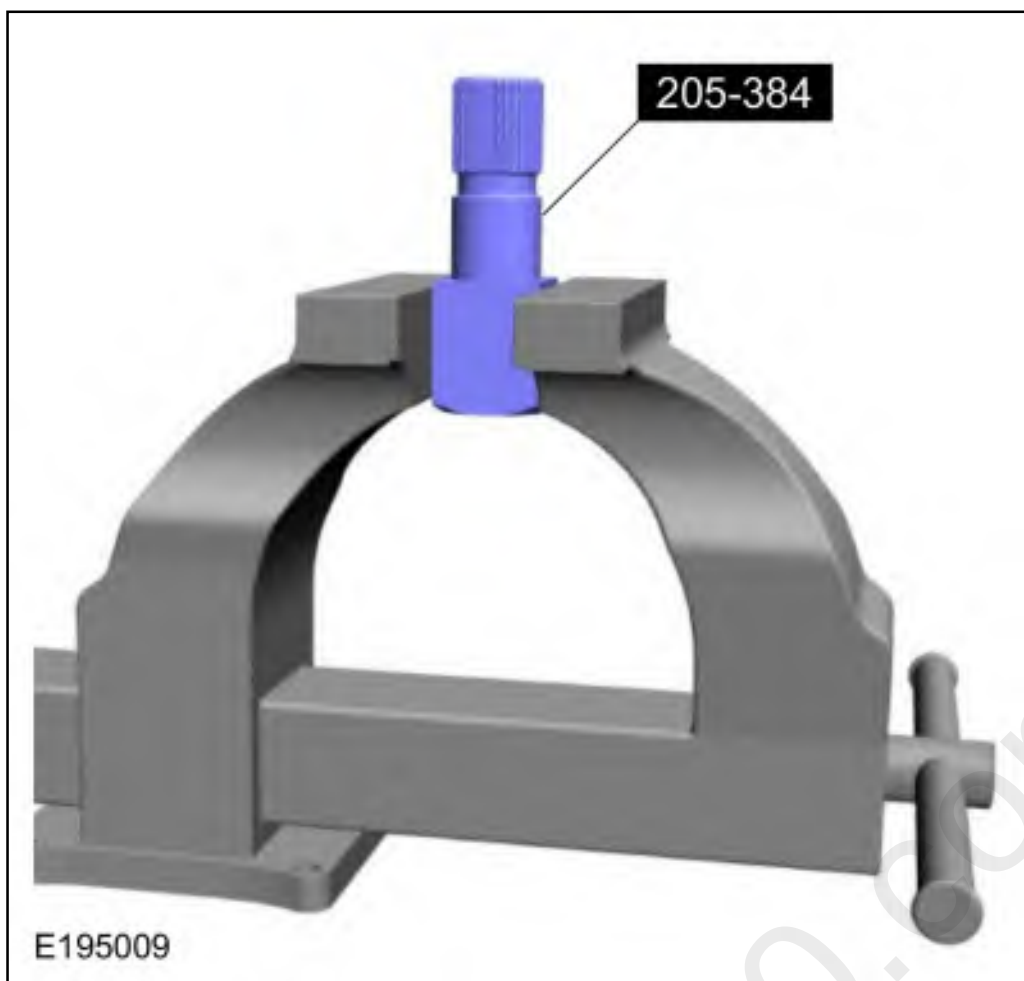
6. Remove the differential pinion shaft lock bolt and the differential pinion shaft.



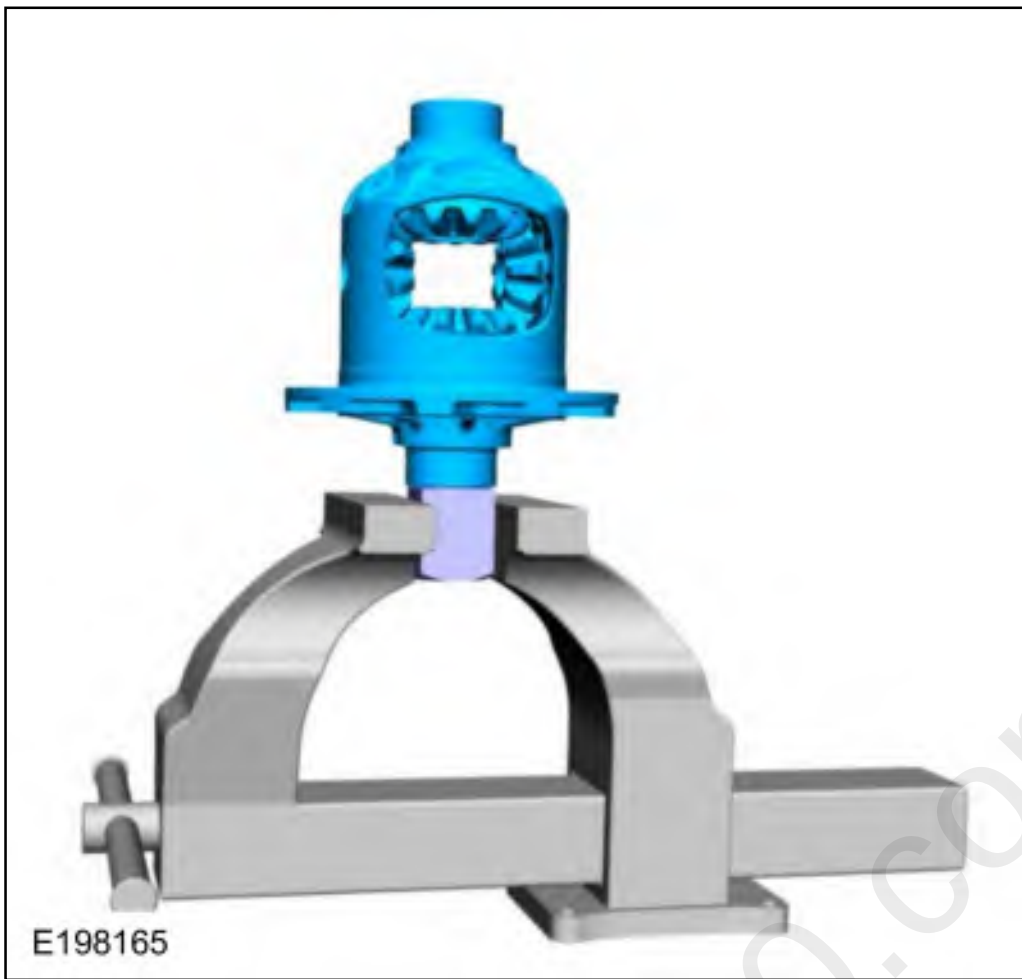
E198164



7. Install the Differential Gauge in a suitable vise.
Use Special Service Tool: 205-384 (T97T-4205-A) Gauge, Differential (Traction Lock).



8. Install the differential case on the Differential Gauge.



9. Rotate and remove the differential pinion gears and differential pinion gear thrust washers.



10. Remove the differential side gears and the differential side gear thrust washers.

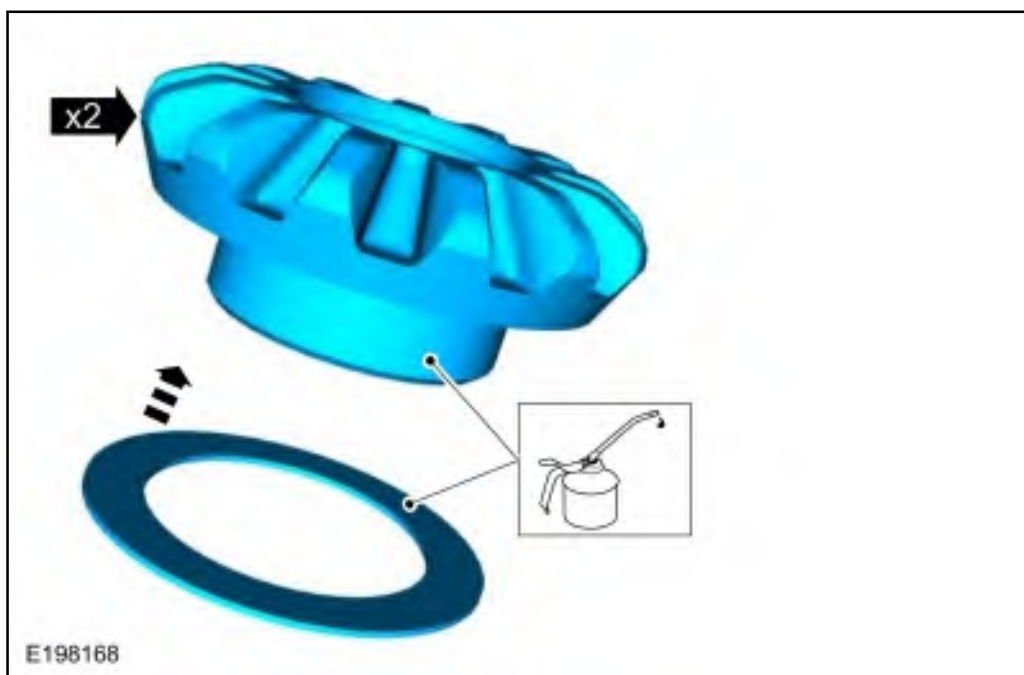


ASSEMBLY

1. **NOTE:** *Lubricate the differential side gear thrust washers and the side gear journals with axle lubricant.*

Position the differential side gear thrust washers on the differential side gears.

Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)



2. Position the differential side gears.



3. **NOTE:** Lubricate both sides of the differential pinion gear thrust washers with axle lubricant.

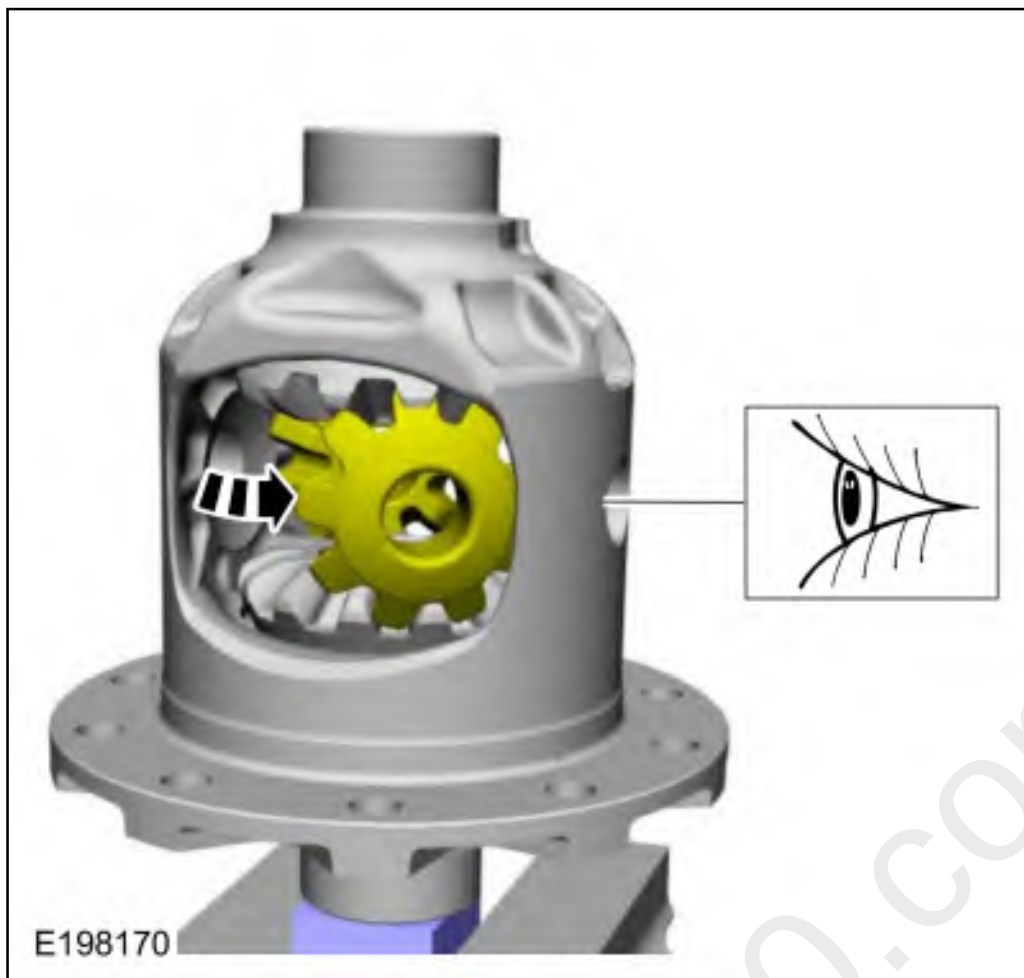
NOTE: Make sure the differential pinion gears are 180 degrees apart so they will align correctly with the pinion shaft bore.

Position the differential pinion gears and differential pinion gear thrust washers in the window of the differential case so they mesh with the differential side gear teeth.

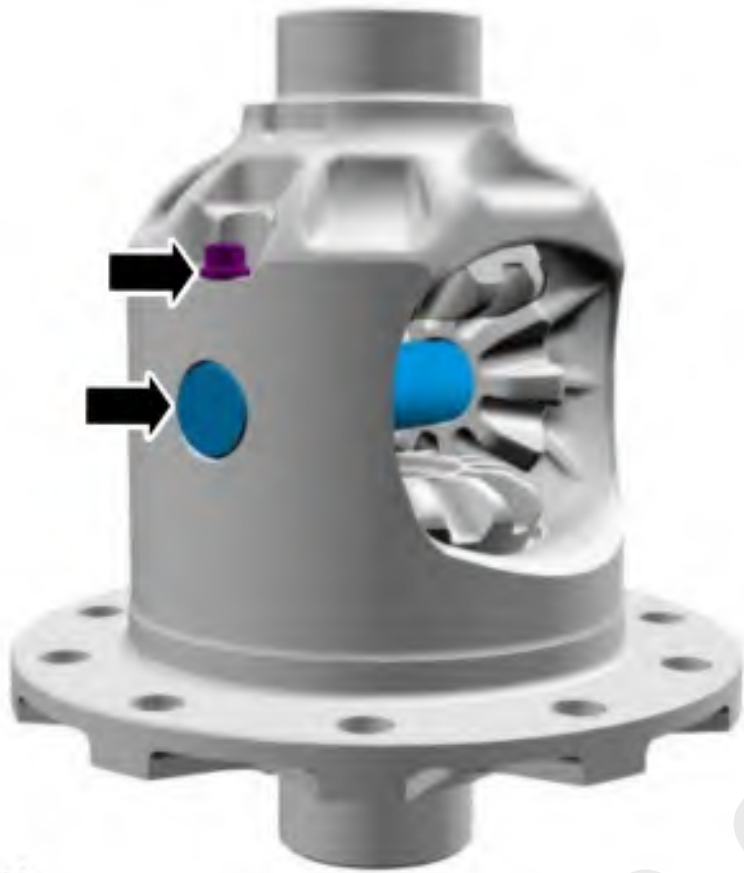
Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)



4. Rotate the differential pinion gears to align the differential pinion shaft bore.



5. Insert the differential pinion shaft, and install a new differential pinion shaft lock bolt finger-tight.

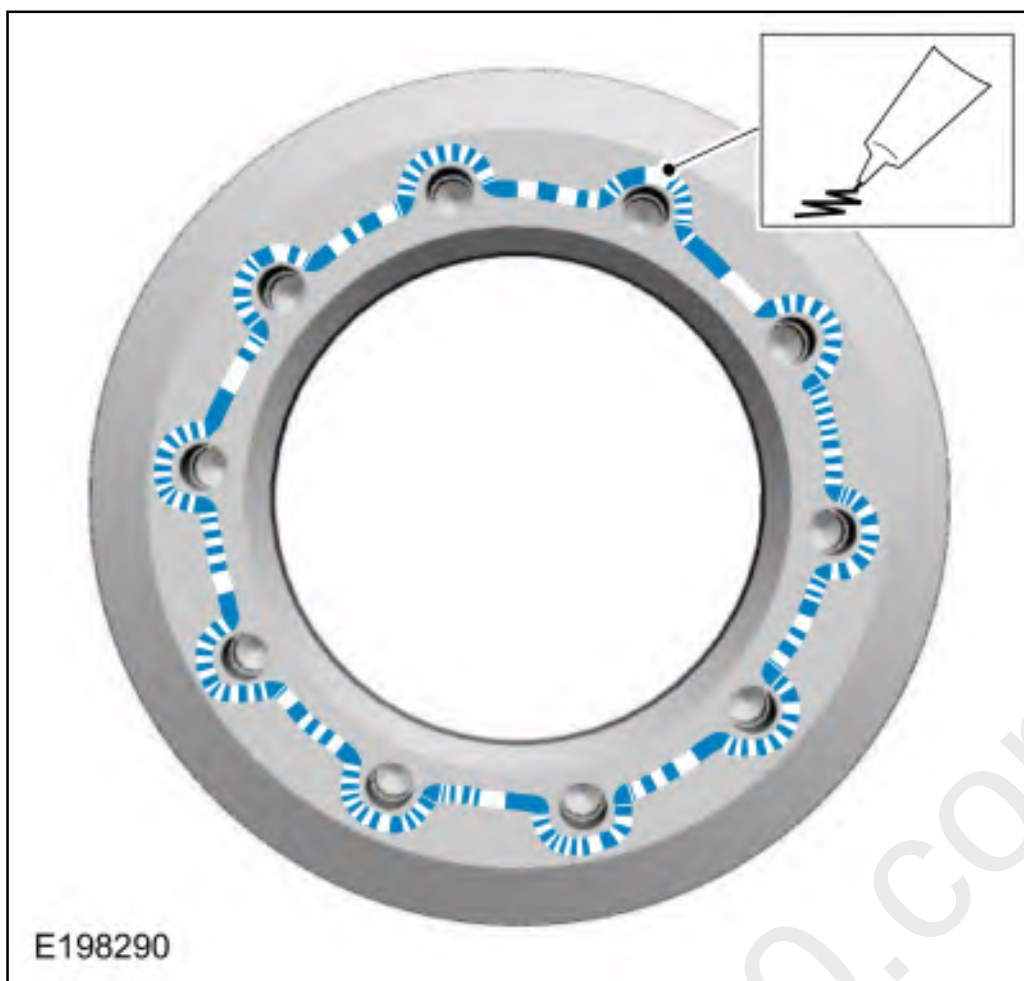


E198164



6. Apply adhesive to the sealing surface of the ring gear.

Material: Maximum Strength Retaining Compound / Loctite® 638™ (WSK-M2G349-A8)



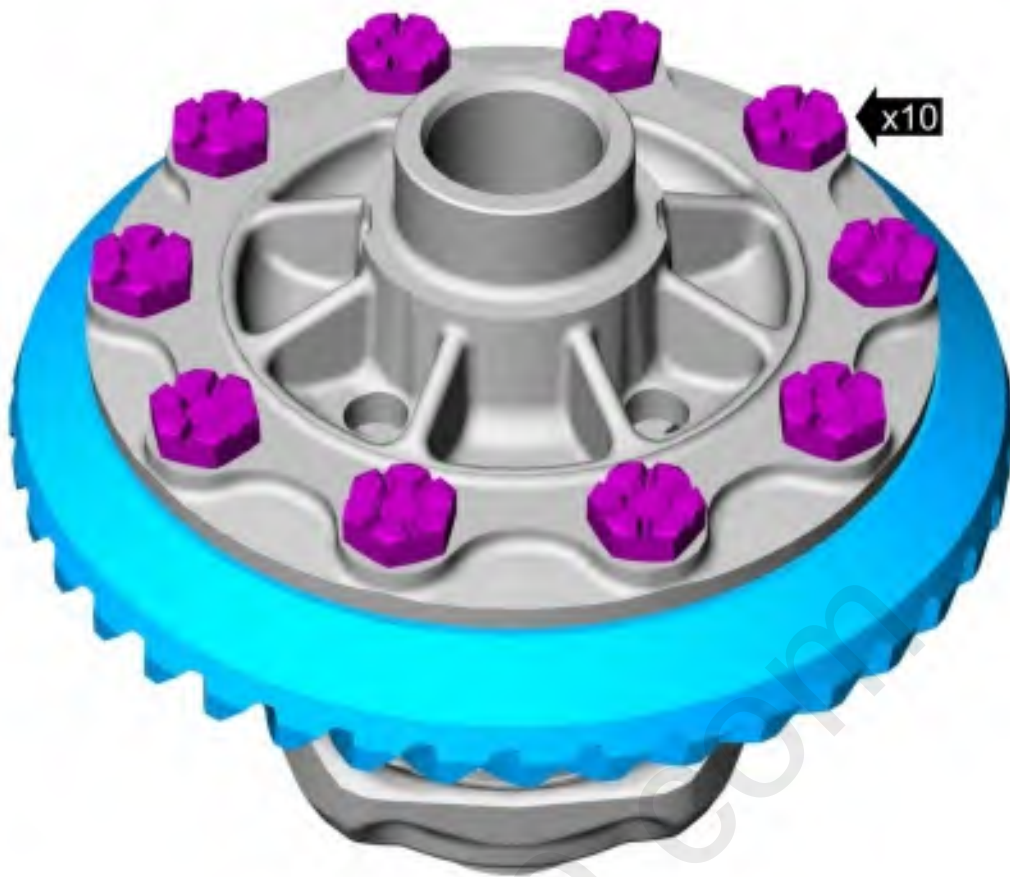
7. **NOTE:** *Tighten the ring gear bolts in a cross pattern.*

Install the ring gear and the new ring gear bolts.

Torque:

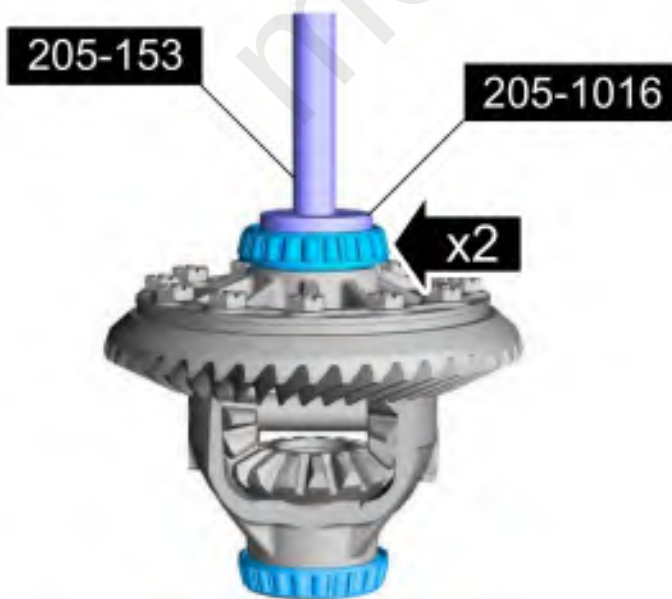
Stage 1: 44 lb.ft (60 Nm)

Stage 2: 90°



E188173

8. Using the general equipment, install the new differential bearings.
 Use Special Service Tool: 205-1016 Installer, Differential Bearing. , 205-153 (T80T-4000-W) Handle.



E198800

9. 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).

Copyright © 2018 Ford Motor Company

mcx30.com