

Differential Carrier - Vehicles With: Electronic Locking Differential (ELD)

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
	205-D061 (D83T-4205-C2) Step Plate
 E155534	205-D072 (D97L-4221-A) 2 Jaw Puller
Punch	
Copper Hammer	

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.

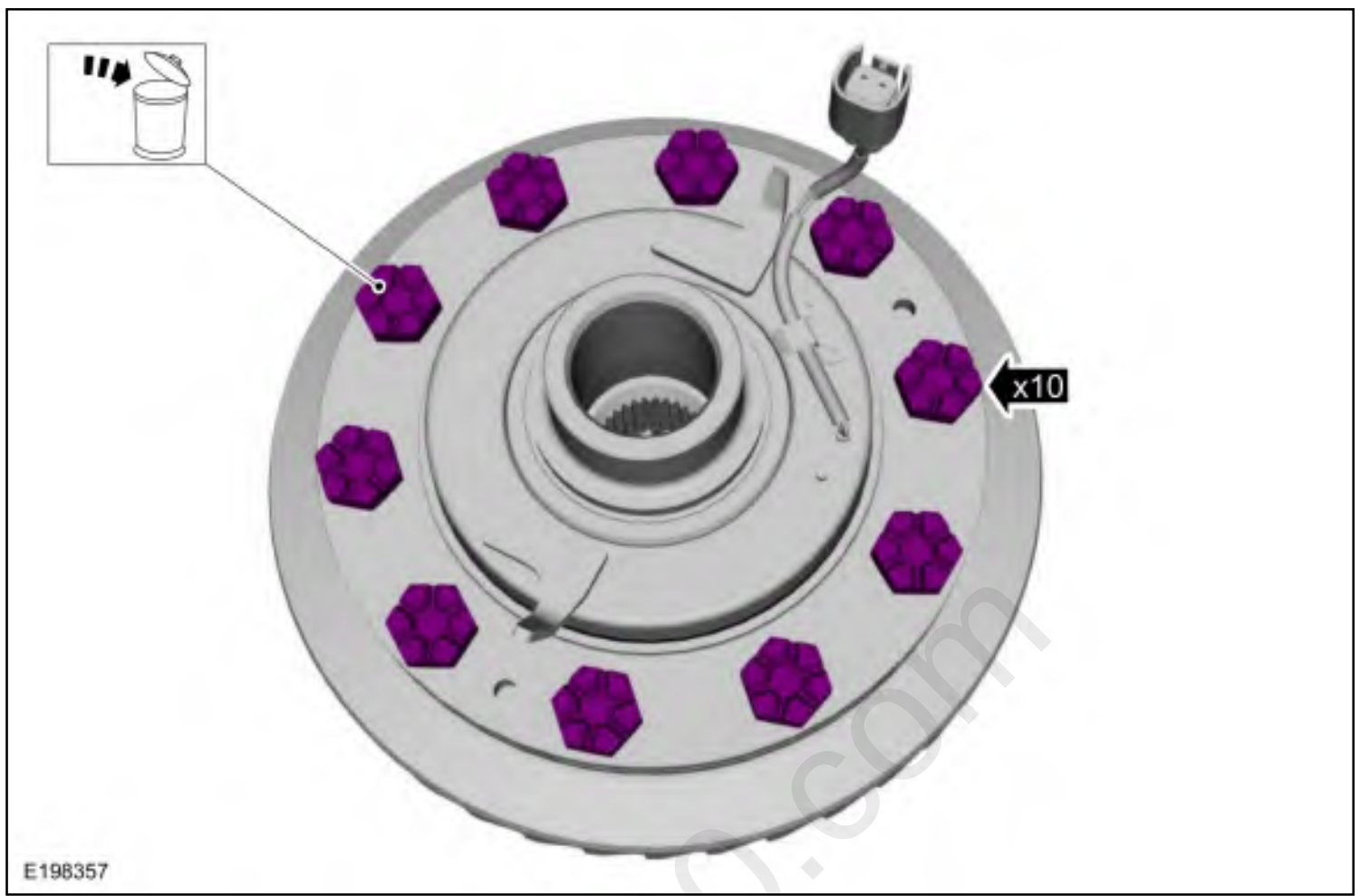
Refer to: [Differential Carrier](#) (205-02A Rear Drive Axle/Differential - Vehicles With: Ford 8.8 Inch Ring Gear, Disassembly and Assembly).

2. Using the general equipment, remove and discard the differential bearings.

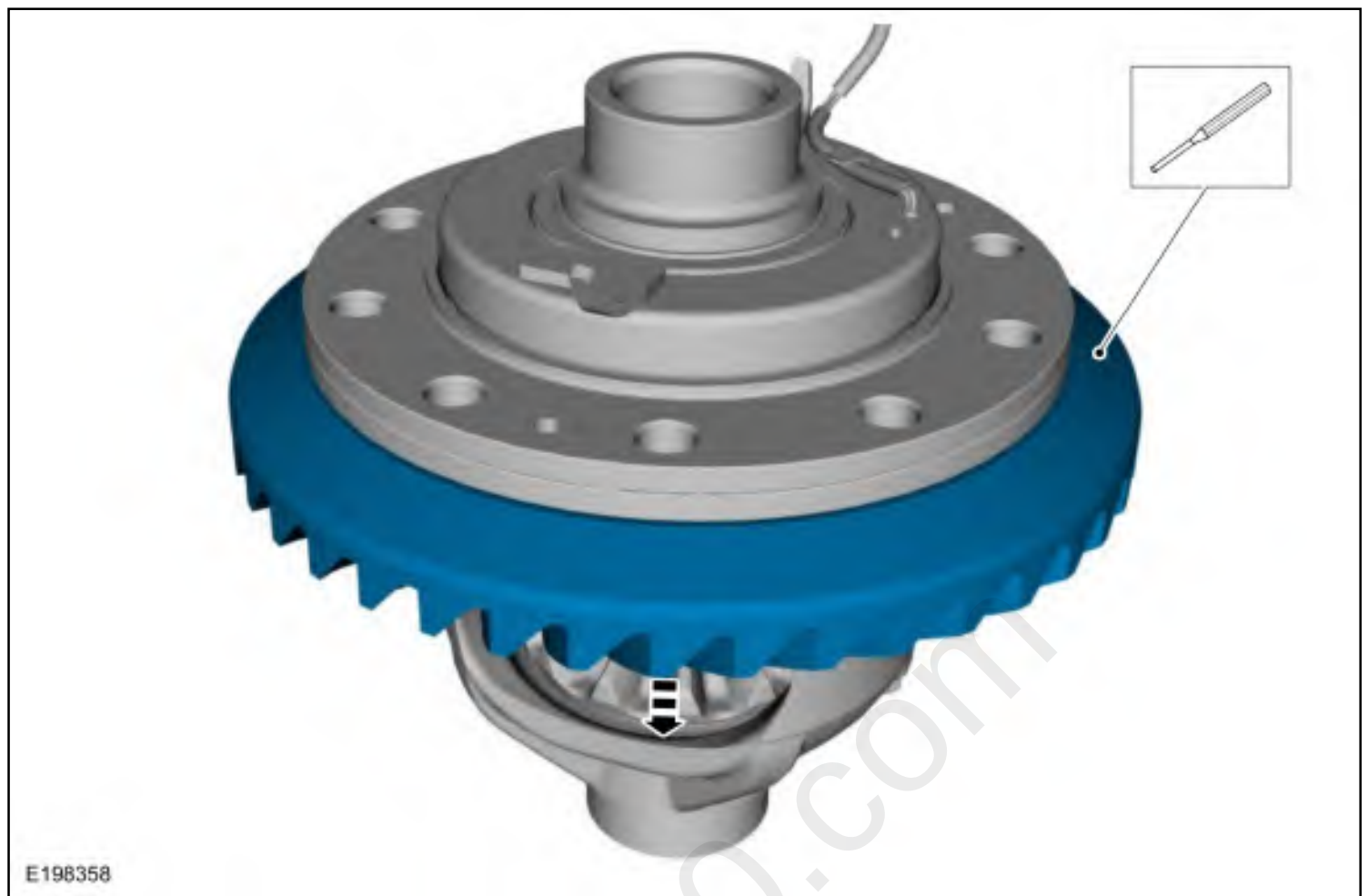
Use Special Service Tool: 205-D072 (D97L-4221-A) 2 Jaw Puller. , 205-D061 (D83T-4205-C2) Step Plate.



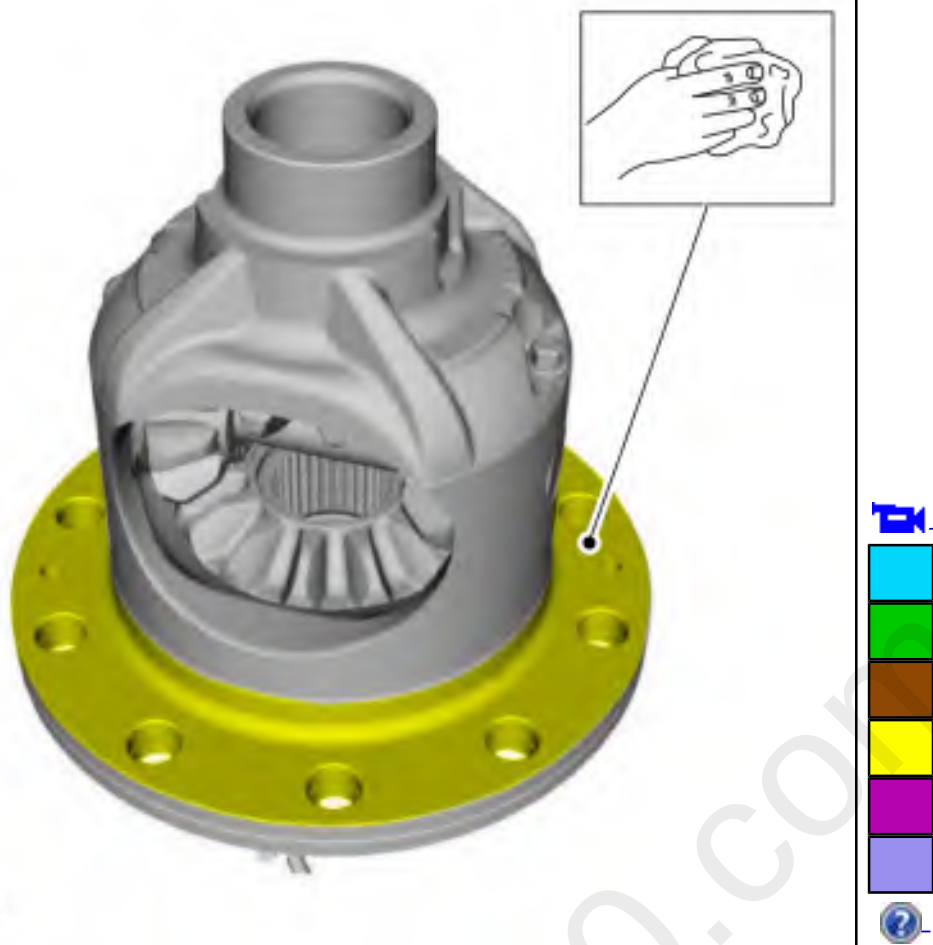
3. Remove and discard the ring gear bolts.



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

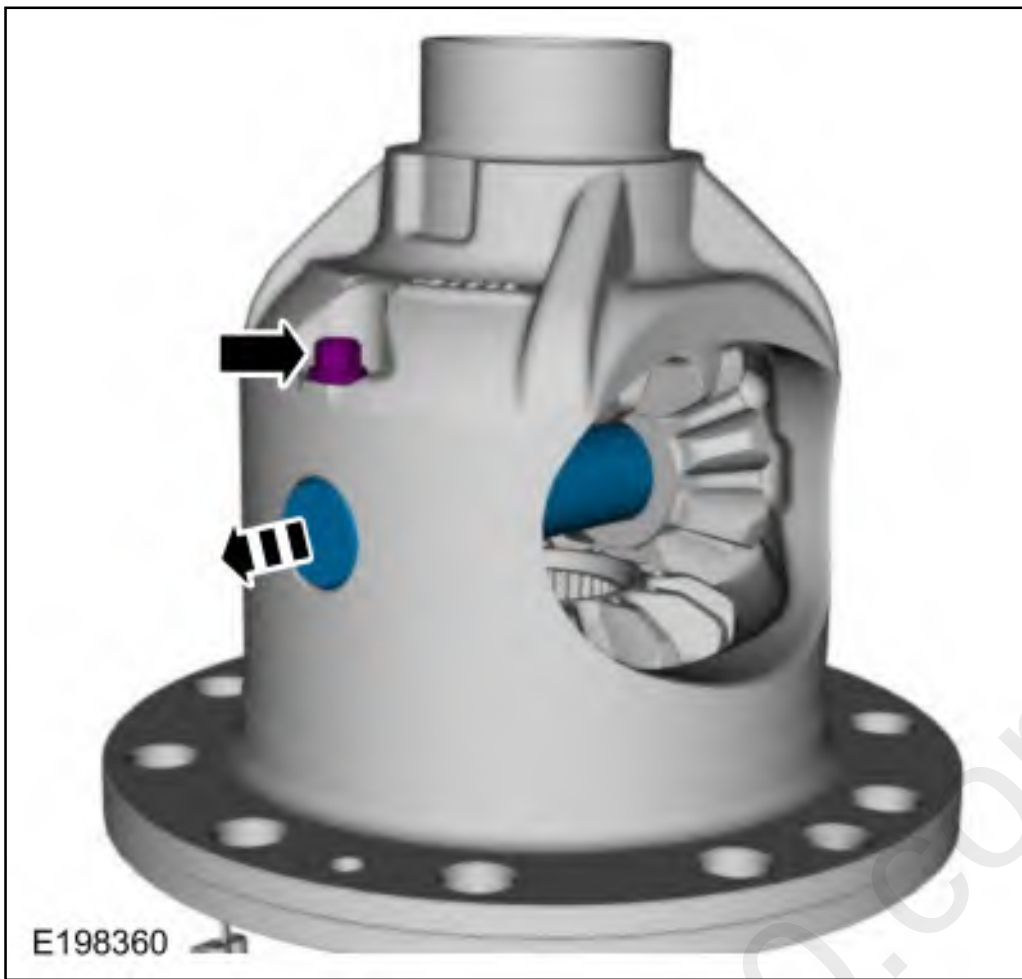


5. Clean the differential case flange of foreign material.



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



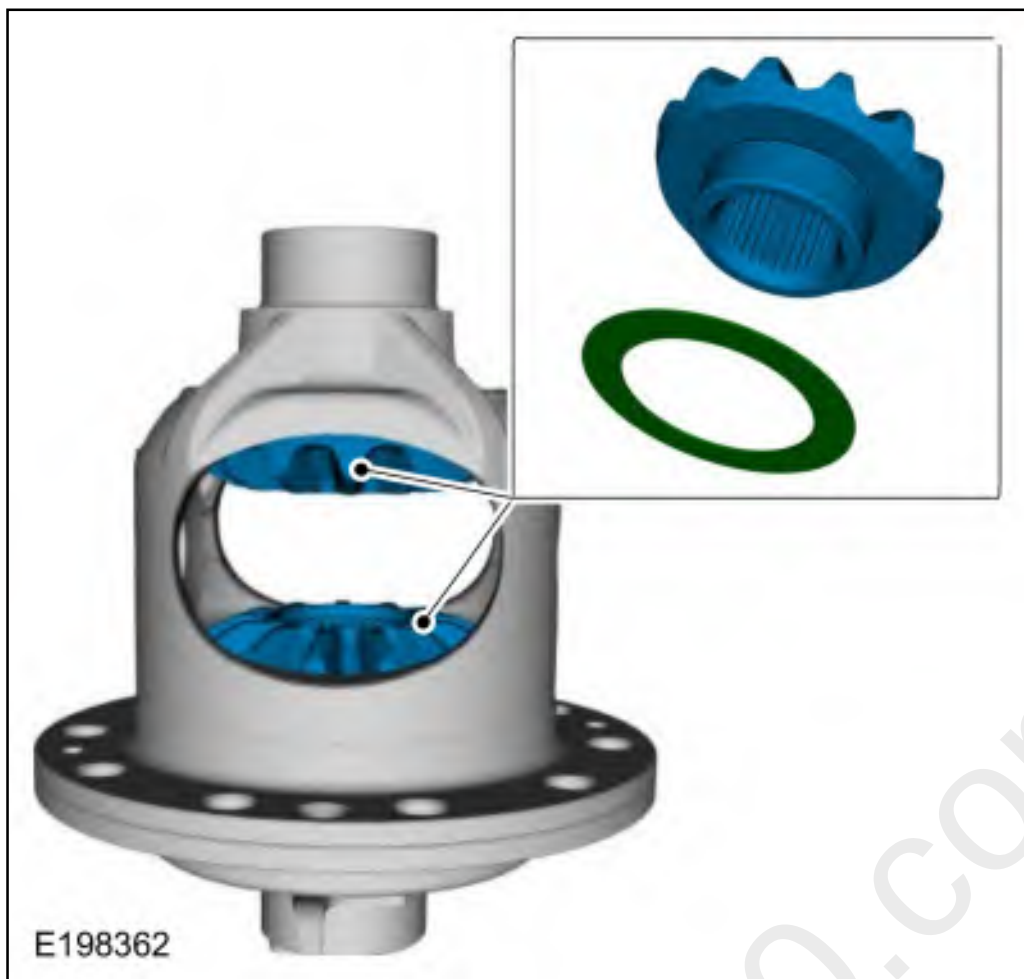
7. Rotate and remove the differential pinion gears and differential pinion gear thrust washers.



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



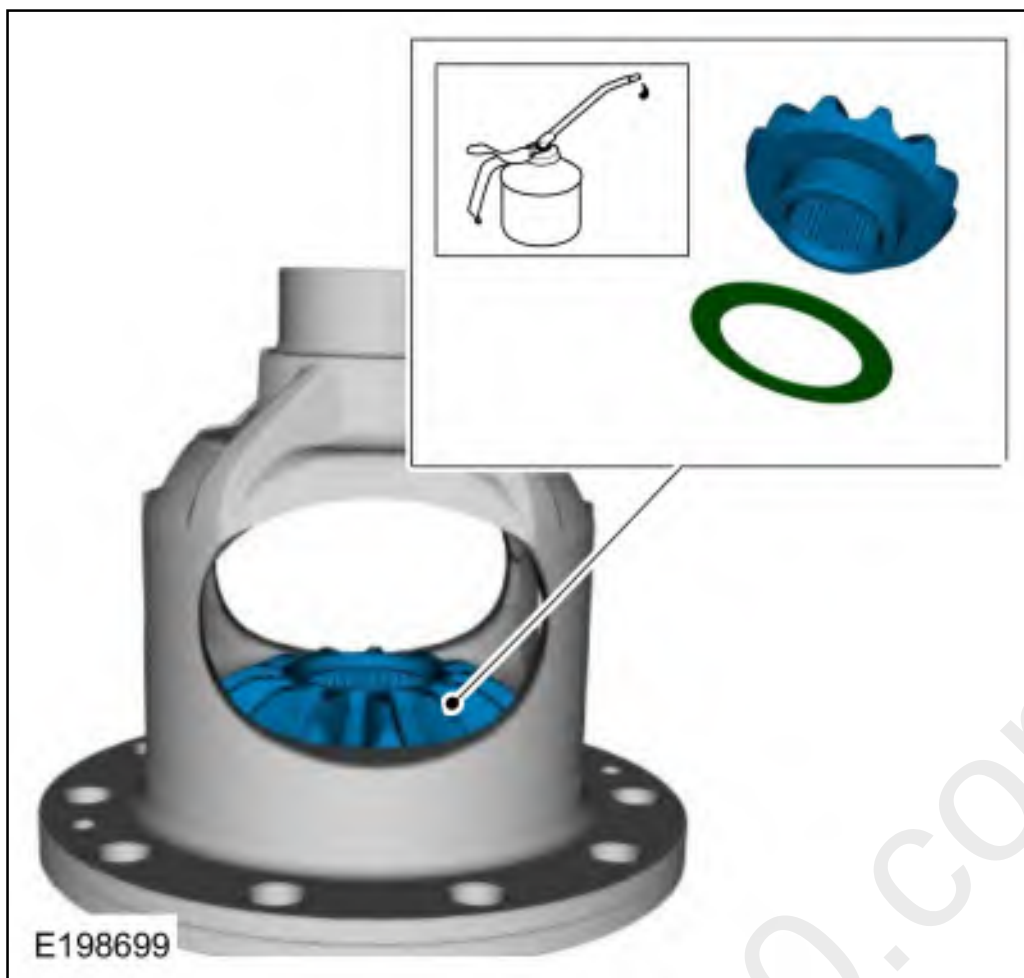
ASSEMBLY

1. **NOTE:** Measure the LH side gear thrust washer that was removed. Replace the LH side gear thrust washer with a new thrust washer of the same thickness.

NOTE: Lubricate the differential side gear thrust washer and the side gear journal with axle lubricant.

Position the LH differential side gear thrust washer on the LH differential side gear and install the gear.

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



2. **NOTE:** Replace the RH side gear thrust washer with a new thrust washer (0.864 mm (0.034 in)) thick.

NOTE: Lubricate the differential side gear thrust washer and the side gear journal with axle lubricant.

Position the RH differential side gear thrust washer on the RH differential side gear and install the gear.

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

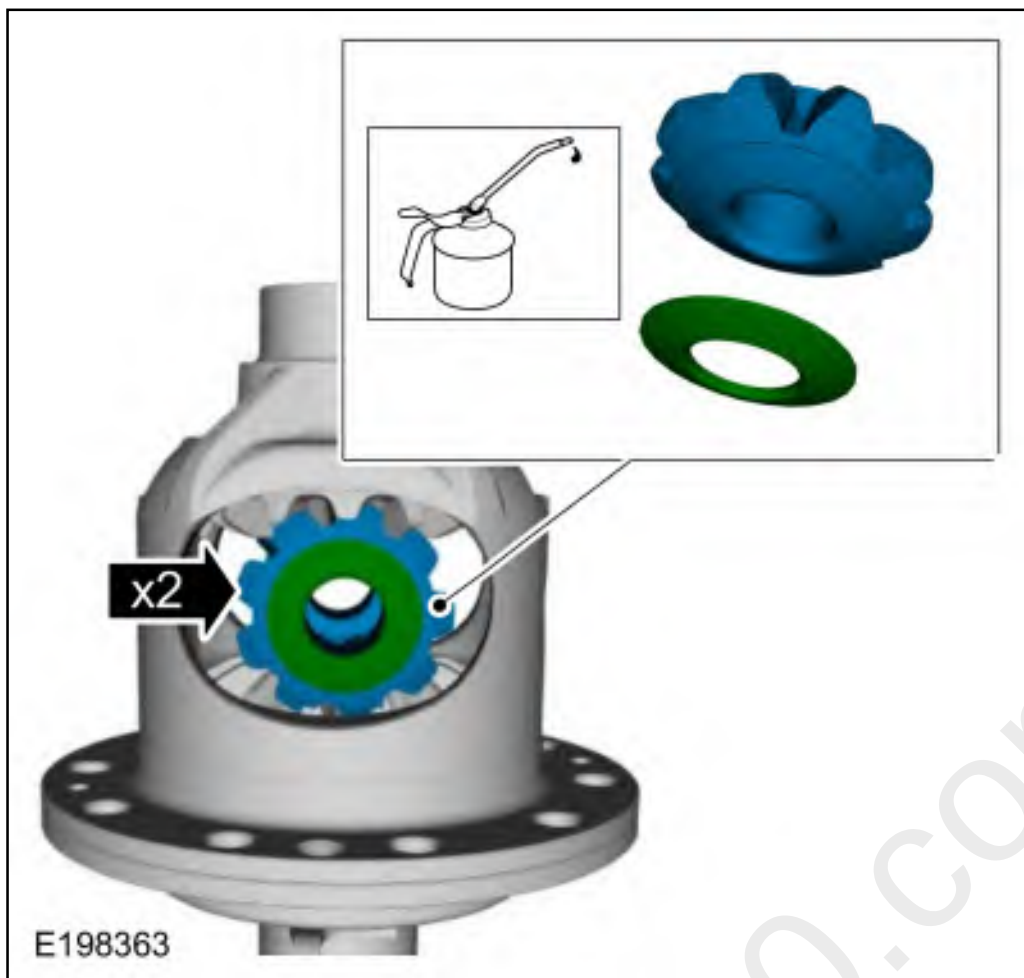


3. **NOTE:** Lubricate both sides of the differential pinion gear thrust washers with axle lubricant.

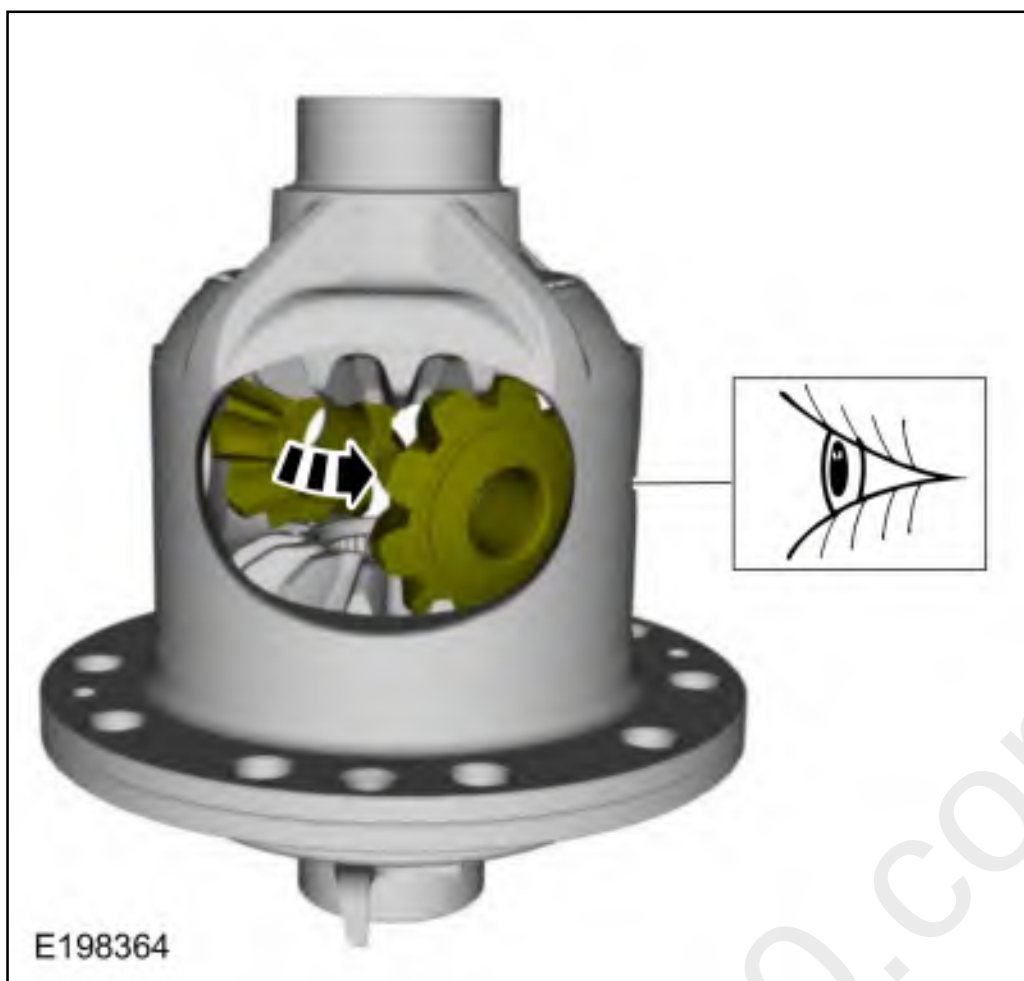
NOTE: Make sure the differential pinion gears are 180 degrees apart so they will align correctly with the pinion shaft bore.

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.

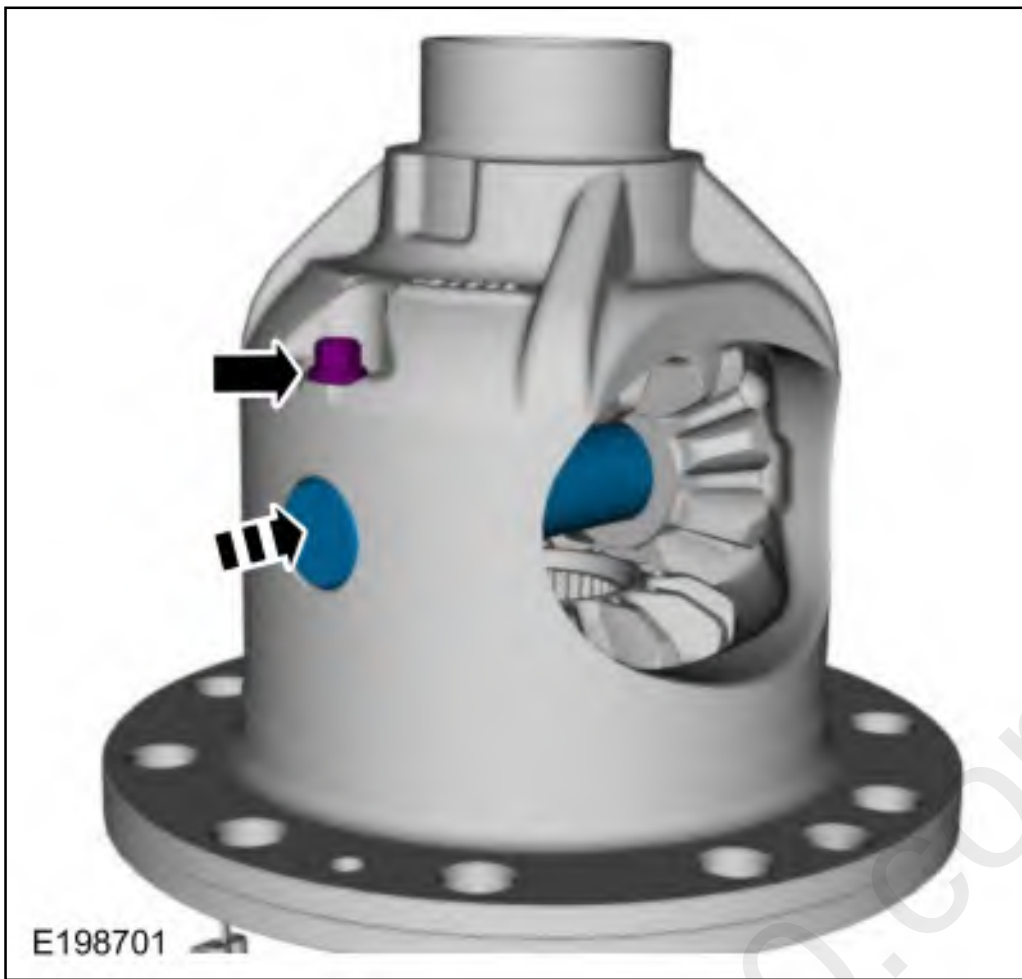
Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)



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

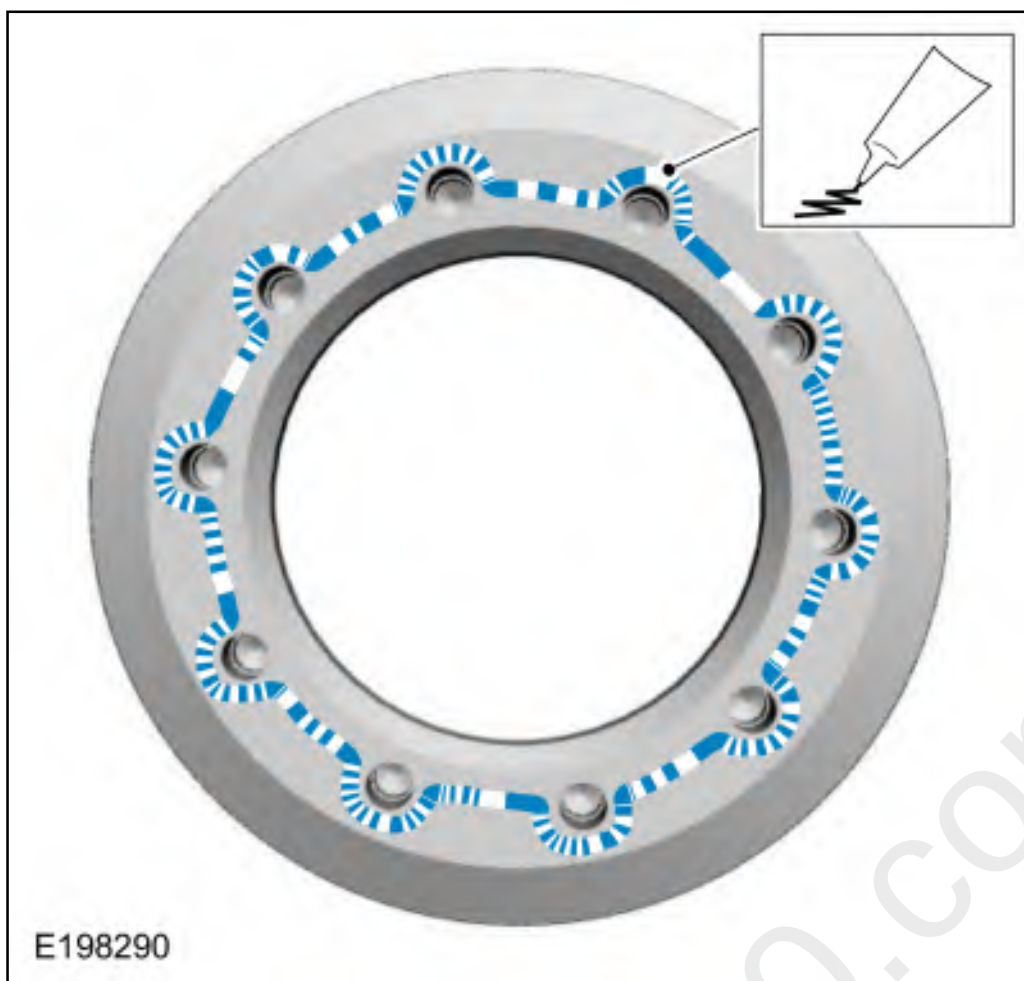


5. Insert the differential pinion shaft, and install a new differential pinion shaft lock bolt finger-tight.



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)

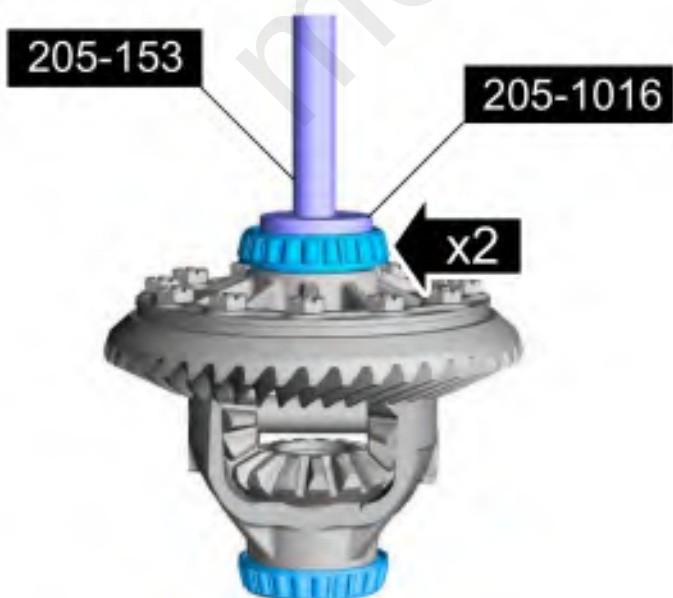
Stage 2: 90°



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



E198800



9. **NOTE:** *Install the differential with the tabs on the ELD coil up against the differential bearing cap mounting surface.*

Install the differential carrier.

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