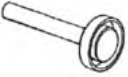
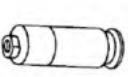


Differential Carrier

Special Tool(s) / General Equipment

 E238640	205-430 Collets, Differential Carrier Bearing TKIT-1999-F/FLM/LT
 E238641	205-431 Retaining Ring, Differential Carrier Bearing TKIT-1999-F/FLM/LT
 E238643	205-432 Step Plate, Differential Carrier Bearing TKIT-1999-F/FLM/LT
	205-D044 (D81T-4221-A) Installer, Differential Carrier Bearing
	308-052 (T77J-7025-B) Remover/Installer, Bearing Tube
	308-092 (T84T-7025-B) Removal Screw, Bearing Tube TKIT-1984-F TKIT-1984-FLM TKIT-1984-LM
Punch	
Copper Hammer	
Vise	

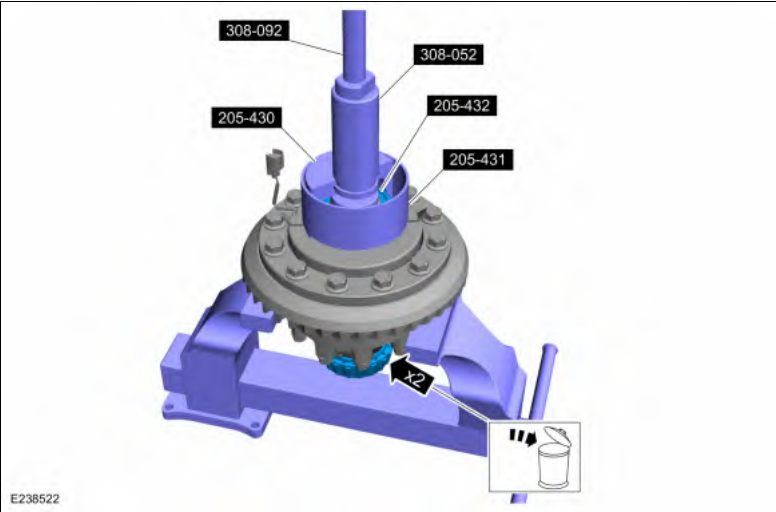
Materials

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

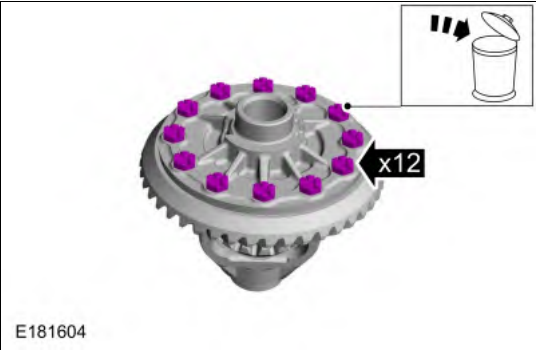
DISASSEMBLY

All vehicles

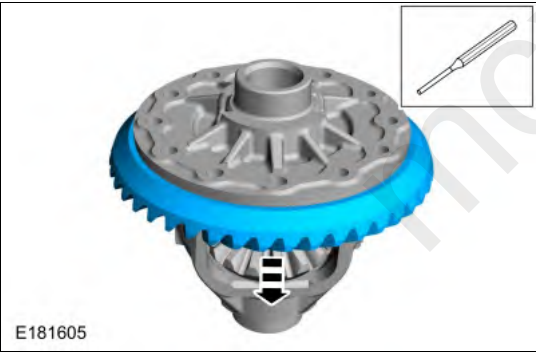
1. Remove the differential carrier.
Refer to: Differential Carrier (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).
2. Remove and discard the differential carrier bearings.
Use Special Service Tool: 205-430 Collets, Differential Carrier Bearing , 205-431 Retaining Ring, Differential Carrier Bearing , 205-432 Step Plate, Differential Carrier Bearing , 308-052 (T77J-7025-B) Remover/Installer, Bearing Tube. , 308-092 (T84T-7025-B) Removal Screw, Bearing Tube.
Use the General Equipment: Vise



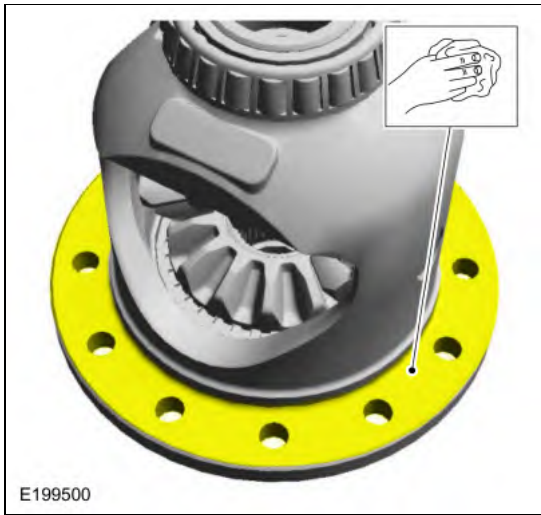
3. Remove and discard the ring gear bolts.



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 ring gear flange.

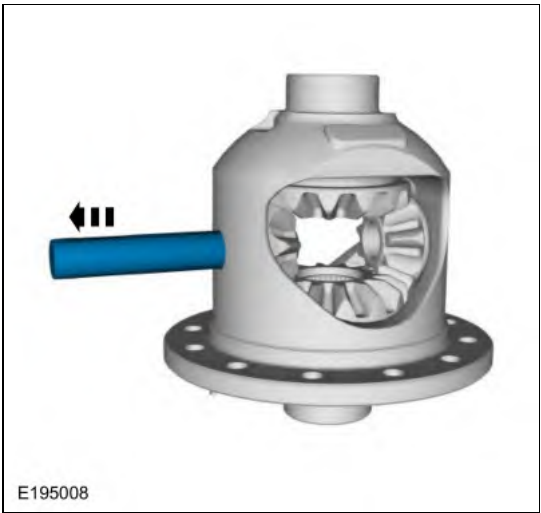


Vehicles equipped with a 1 piece case

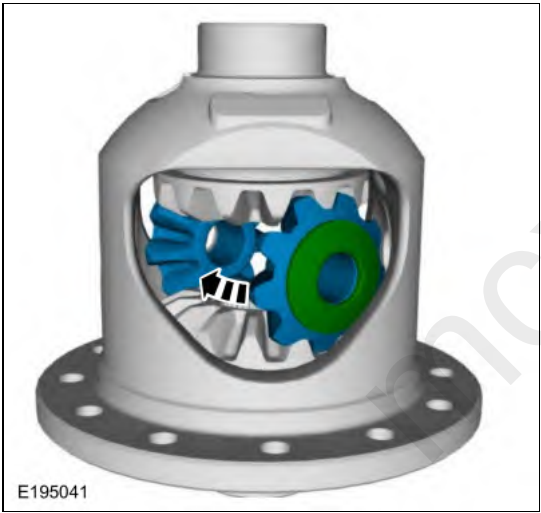
6. Remove the differential pinion shaft lock bolt.



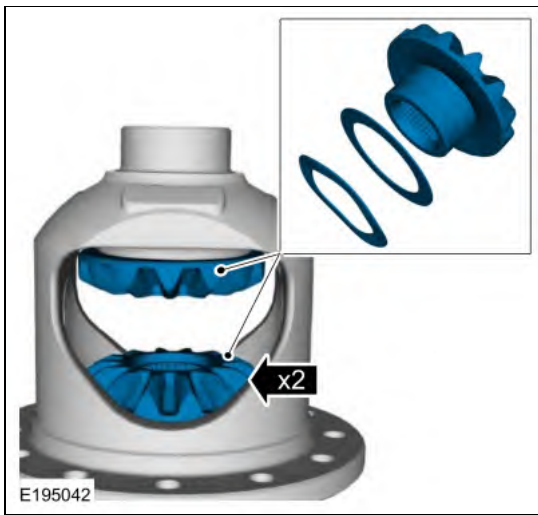
7. Remove the differential pinion shaft.



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

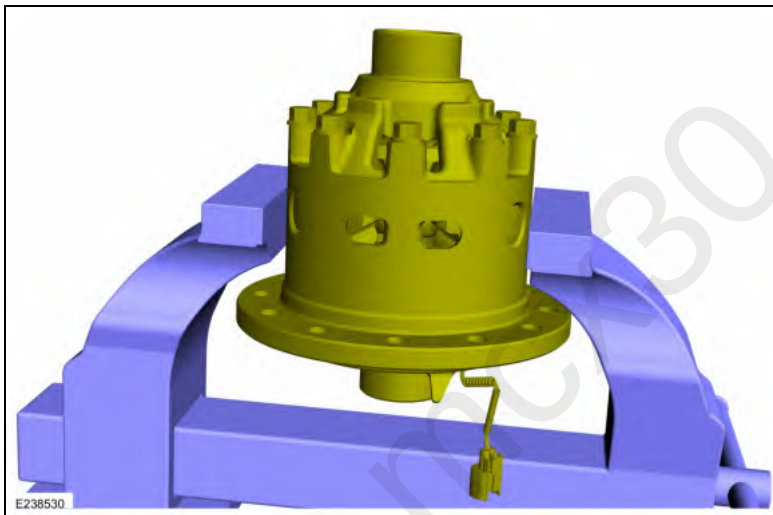


9. Remove the differential side gears, the differential side gear thrust washers and if equipped, the differential side gear wave washers.

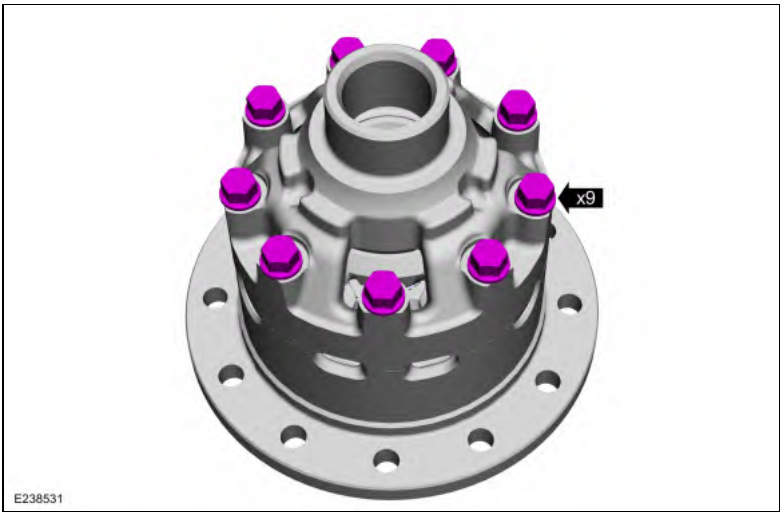


Vehicles equipped with a 2 piece case

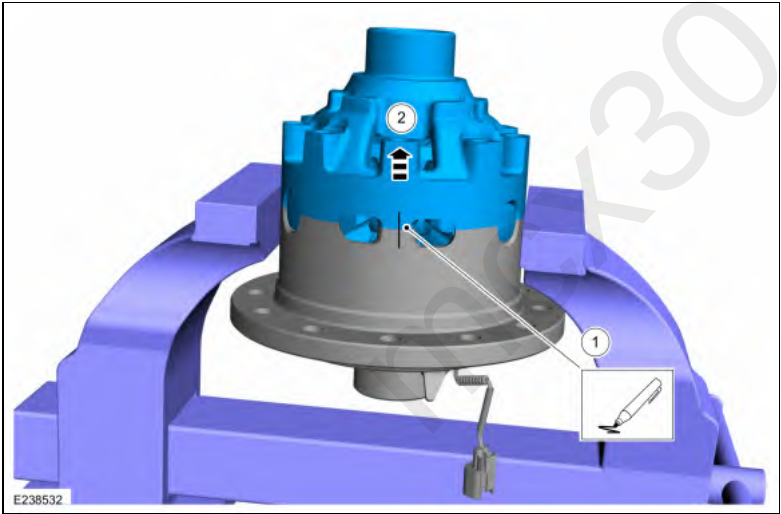
10. Using the special tool, mount the differential carrier on a vise.
Use the General Equipment: Vise



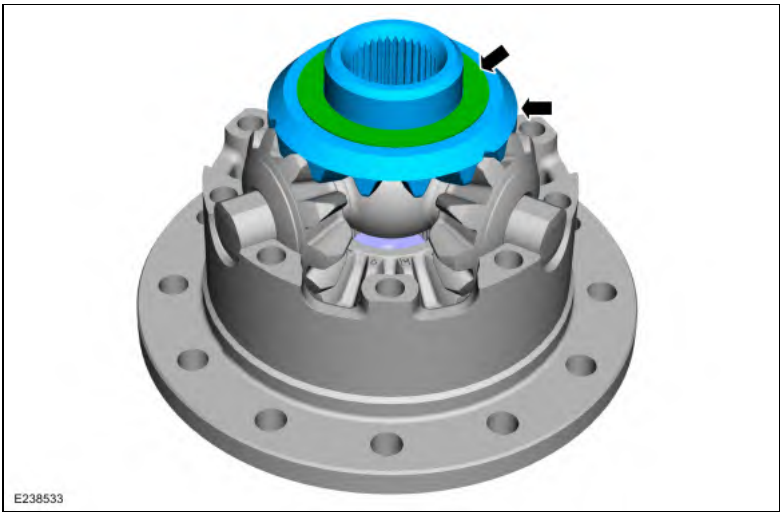
11. Remove the differential carrier case bolts.



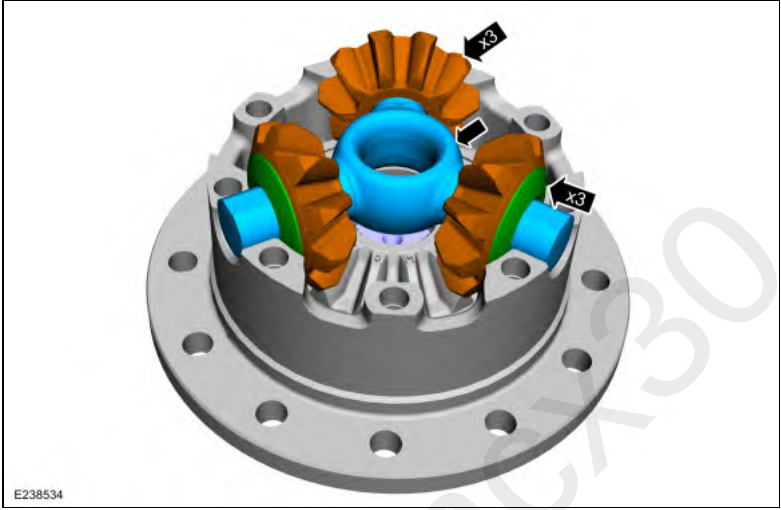
12. Separate the carrier case.
- 1. Index mark the carrier case halves.
 - 2. Separate the carrier case halves
- Use the General Equipment: Vise



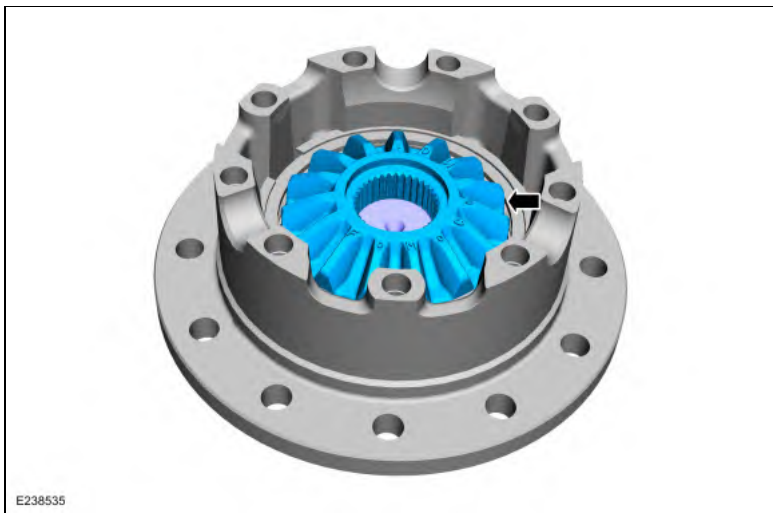
13. Remove the RH side gear and side gear shim.



14. Remove the differential pinion shaft, pinion gears and pinion gear washers.



15. Remove the LH side gear.



16. Remove the LH side gear shim.



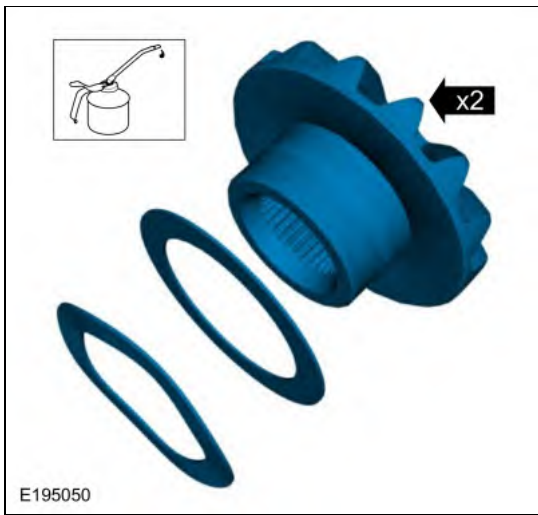
ASSEMBLY

Vehicles equipped with a 1 piece case

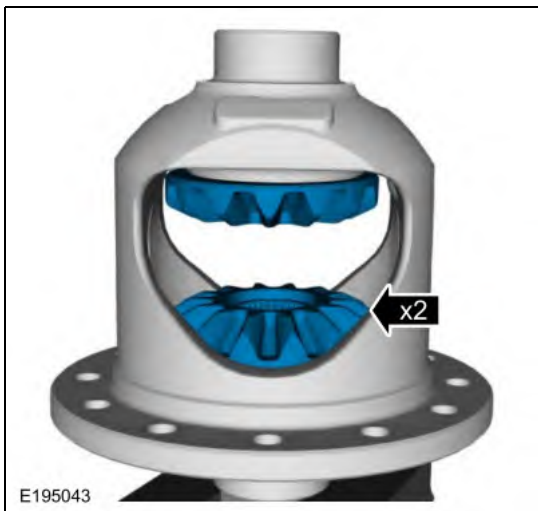
- NOTE:** Lubricate the differential side gear thrust washers, if equipped wave washers and the side gear journals with axle lubricant.

Position the differential side gear thrust washers and if equipped, wave 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.

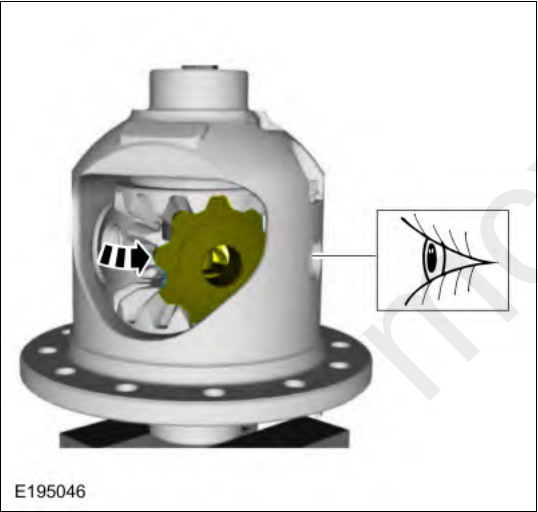
NOTE: Make sure the differential pinion gears are 180 degrees apart so they will align correctly with the pinion shaft bore.

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.

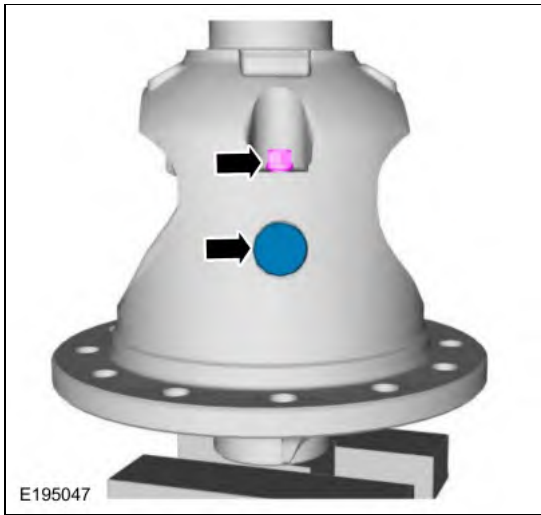
Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)



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

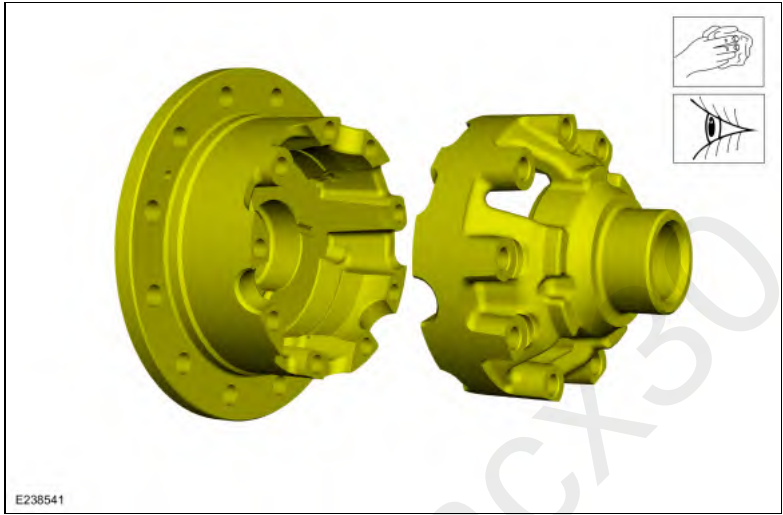


5. Insert the differential pinion shaft, and install a new differential pinion shaft lock bolt.
Torque: 22 lb.ft (30 Nm)



Vehicles equipped with a 2 piece case

6. Clean and inspect the differential case.

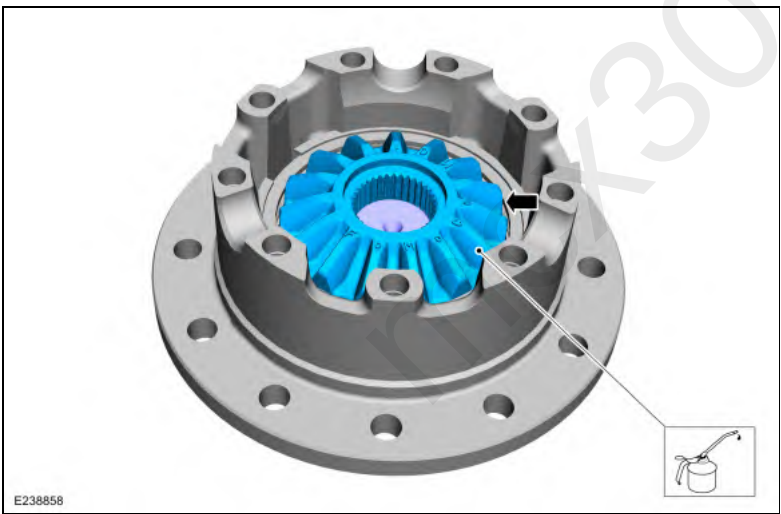


7. Install the LH side gear shim.



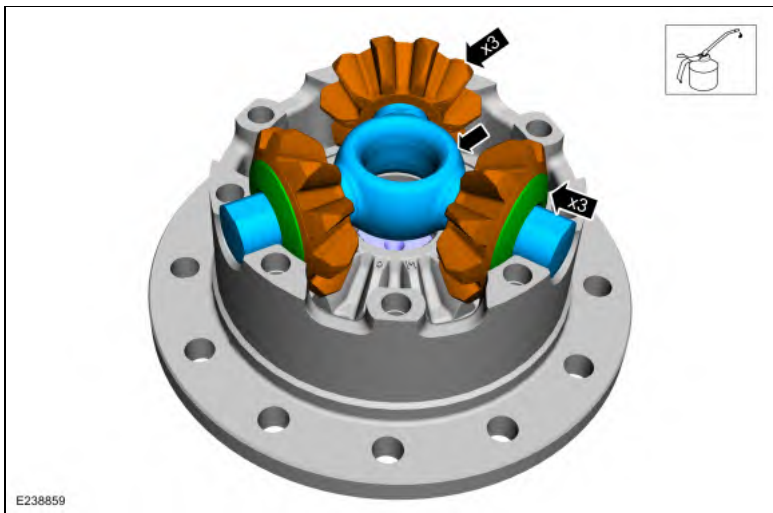
8. Lubricate and install the LH side gear.

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



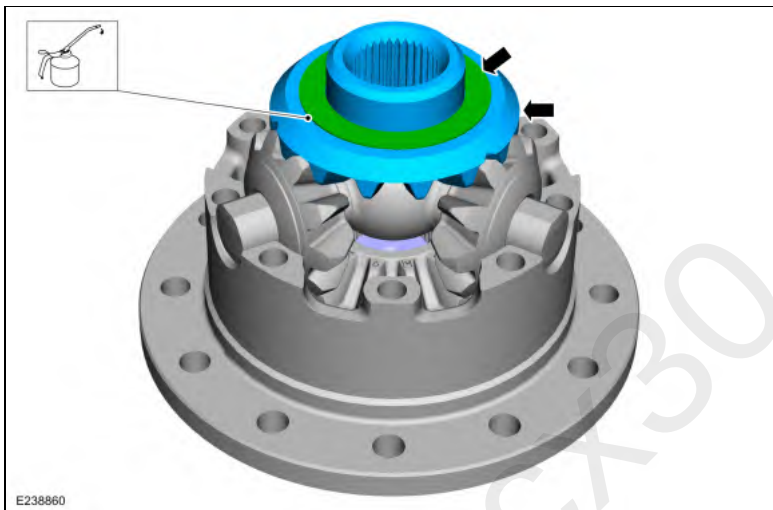
9. Lubricate and install the differential pinion shaft, pinion gears and pinion gear washers.

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

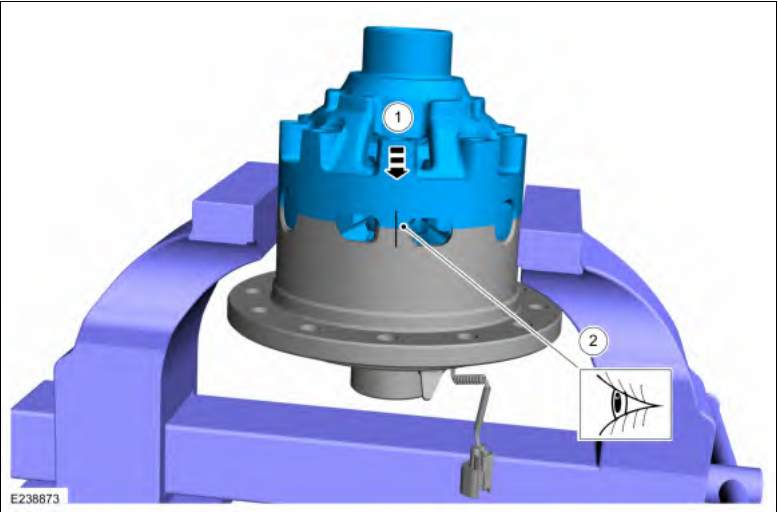


10. Lubricate and install the RH side gear and side gear shim.

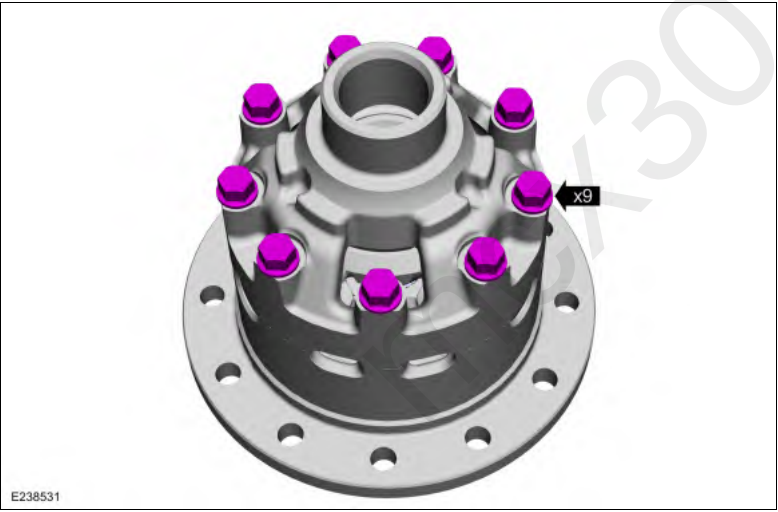
Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)



11. Install the carrier case.
1. Install the carrier case.
 2. Line up the index mark.
- Use the General Equipment: Vise

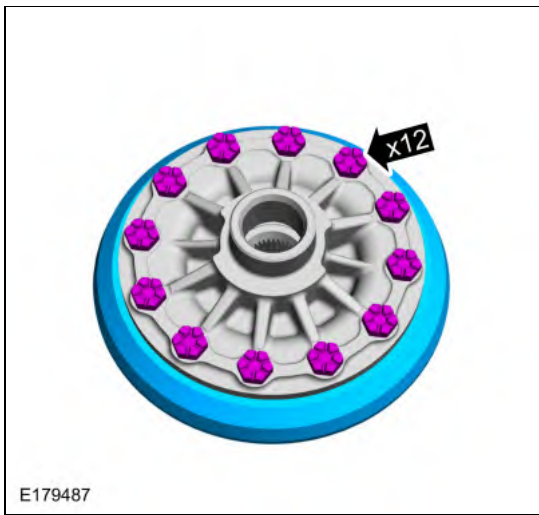


12. Install the differential carrier case bolts.
- Torque:*
- Stage 1: 46 lb.ft (63 Nm)
- Stage 2: 90°

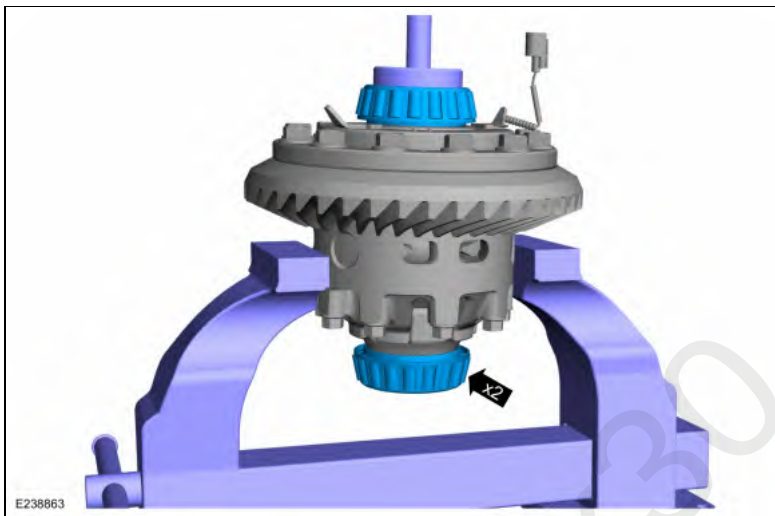


All vehicles

13. **NOTE:** Tighten the ring gear bolts in a cross pattern.
- Install the ring gear and the new ring gear bolts.
- Torque:*
- Stage 1: 46 lb.ft (63 Nm)
- Stage 2: 60°



14. Using the general equipment, install the new differential bearings.
 Use Special Service Tool: 205-D044 (D81T-4221-A) Installer, Differential Carrier Bearing.
 Use the General Equipment: Vise



15. Install the differential carrier.
 Refer to: Differential Carrier (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).