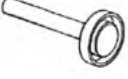
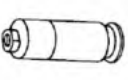


Differential Carrier - Vehicles With: Electronic Locking Differential (ELD)

Special Tool(s) / General Equipment

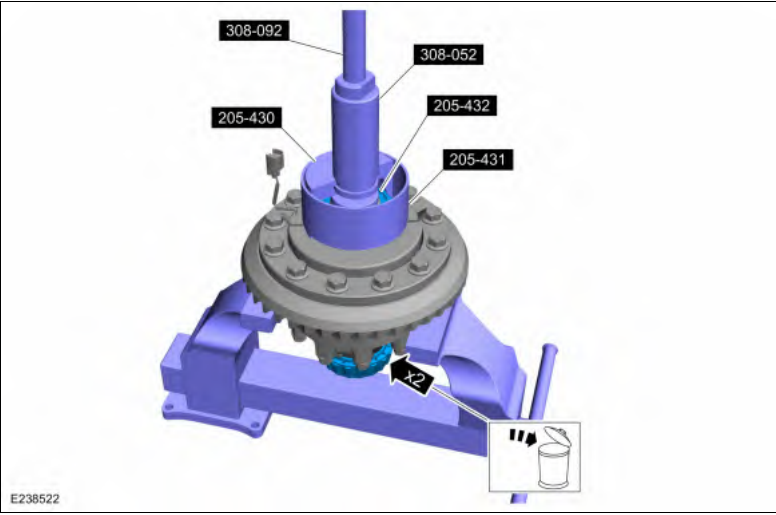
 E238640	205-430 Collets, Differential Carrier Bearing TKIT-1999-F/FLM/LT
 E238641	205-431 Retaining Ring, Differential Carrier Bearing TKIT-1999-F/FLM/LT
 E238643	205-432 Step Plate, Differential Carrier Bearing TKIT-1999-F/FLM/LT
	205-D044 (D81T-4221-A) Installer, Differential Carrier Bearing
	308-052 (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

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



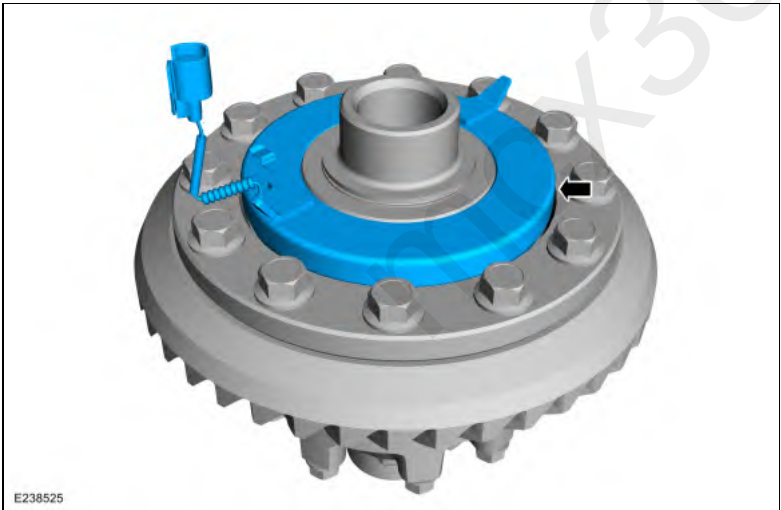
3. Remove the ELD coil retaining ring.



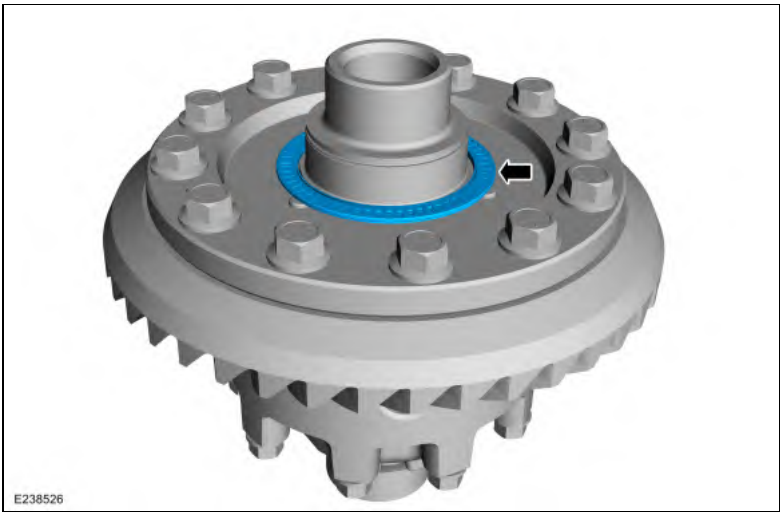
4. Remove the ELD coil retaining ring washer.



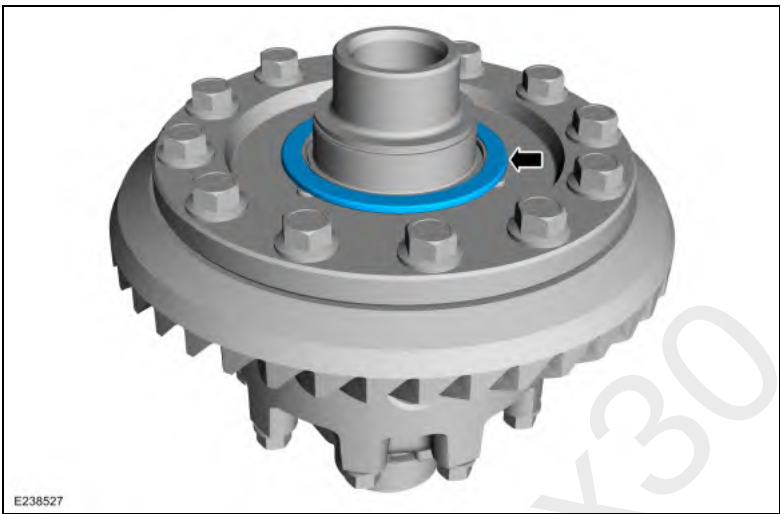
5. Remove the ELD coil.



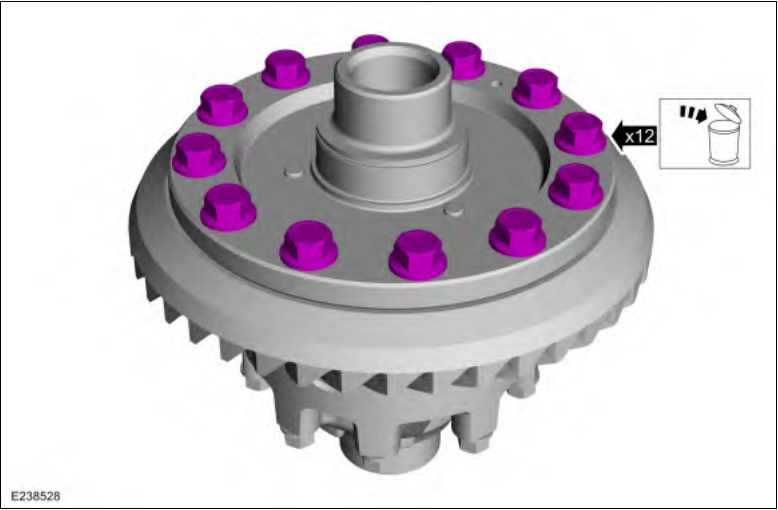
6. Remove the ELD coil thrust bearing.



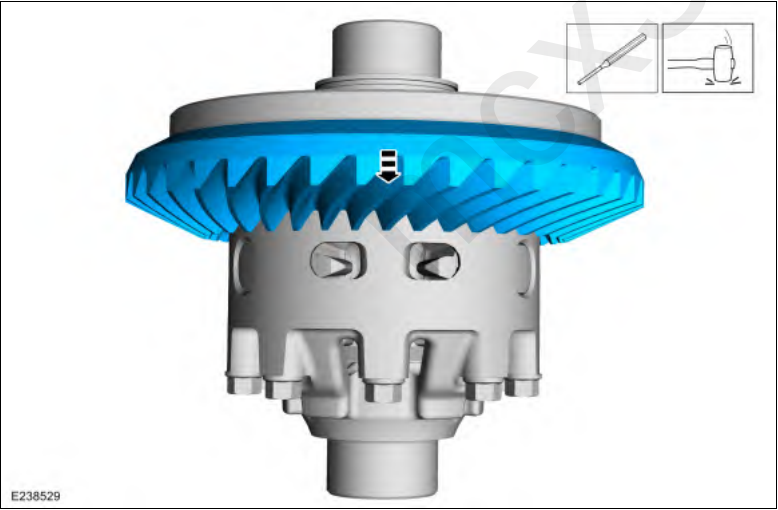
7. Remove the ELD coil thrust plate.



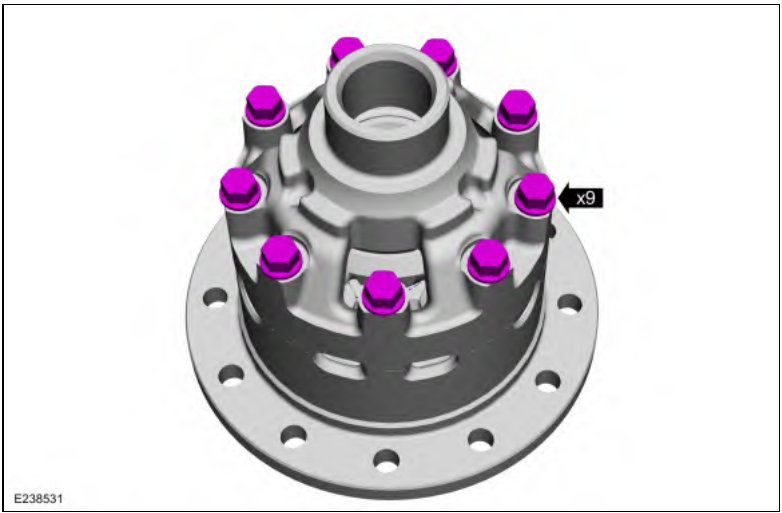
8. Remove and discard the ring gear bolts.



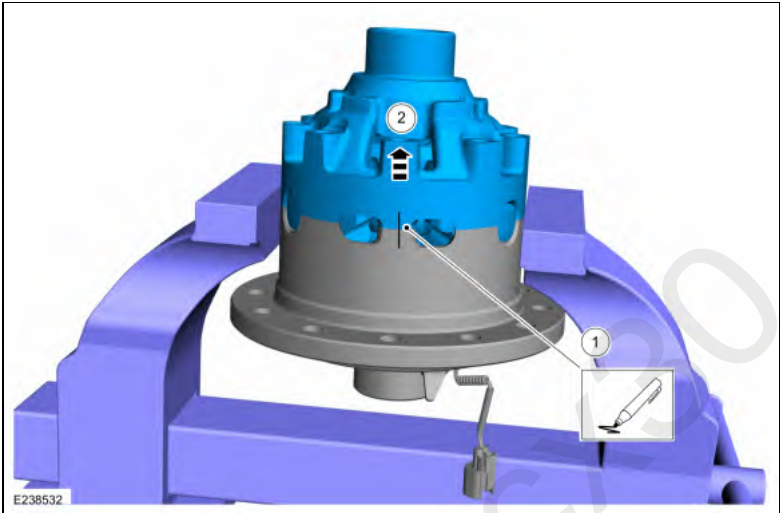
9. Using the general equipment, remove the ring gear.
Use the General Equipment: Punch
Use the General Equipment: Copper Hammer



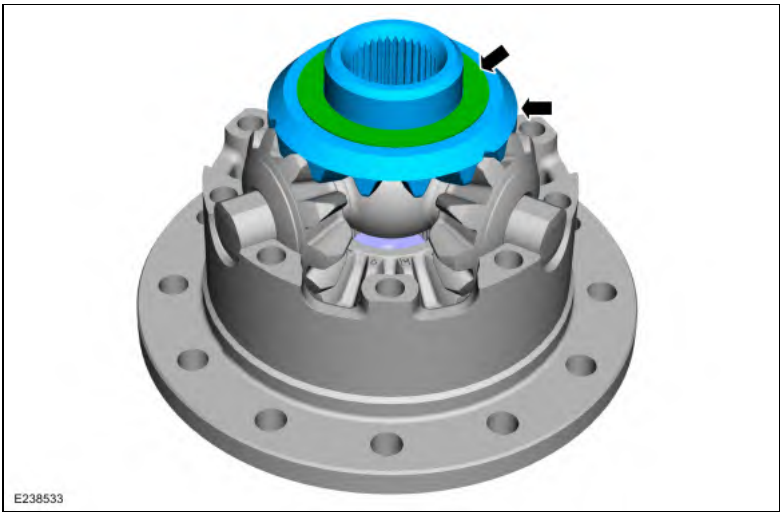
10. Remove the differential carrier case bolts.



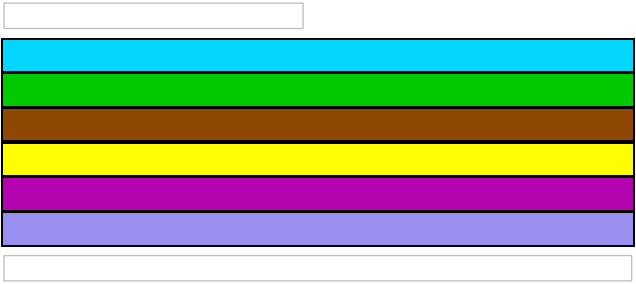
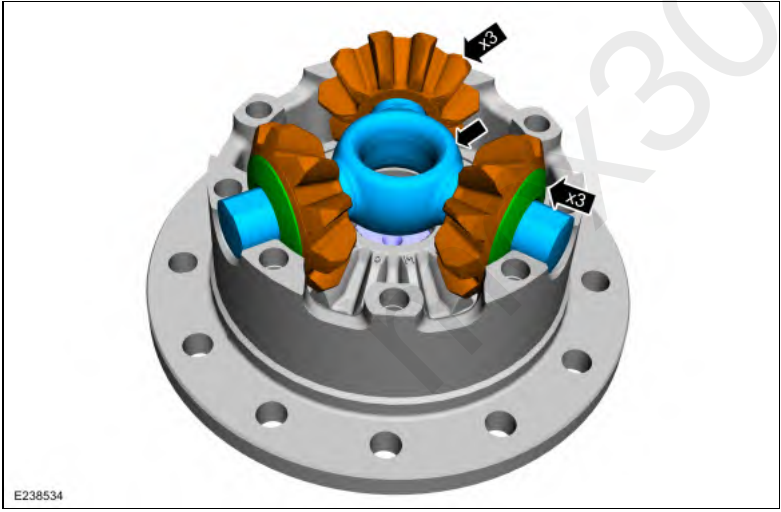
11. Separate the carrier case.
1. Index mark the carrier case halves.
 2. Separate the carrier case halves
- Use the General Equipment: Vise



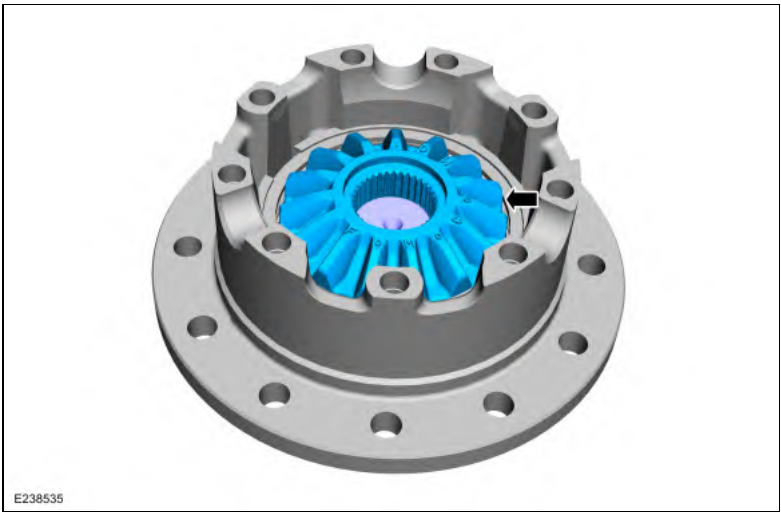
12. Remove the RH side gear and side gear shim.



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



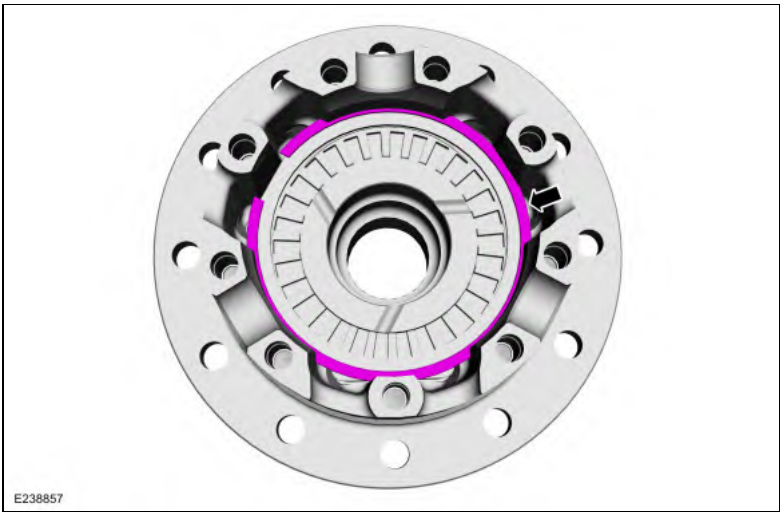
14. Remove the LH side gear.



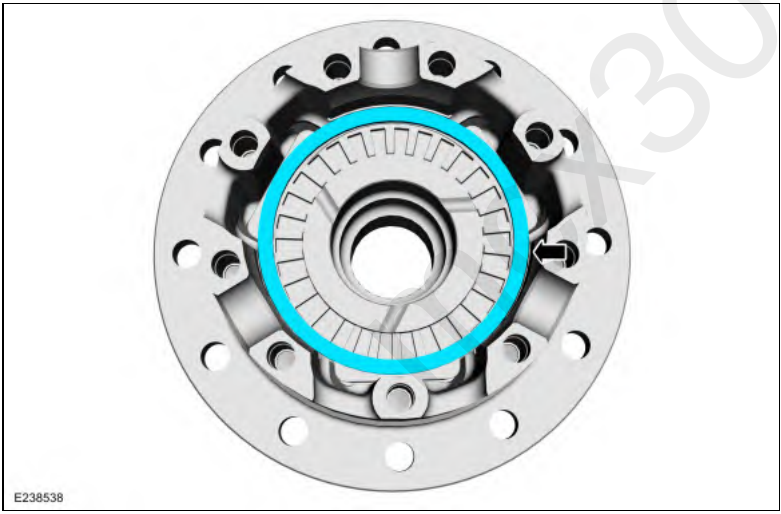
15. Remove the LH side gear shim.



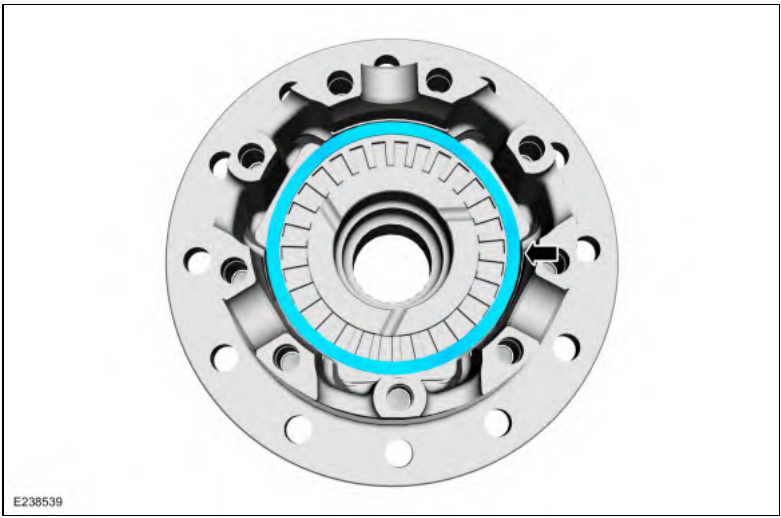
16. Remove the ELD cam ring retaining circlip.



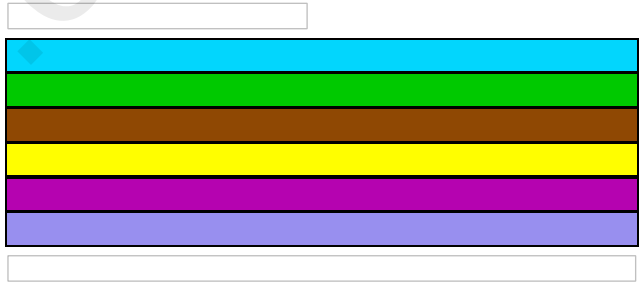
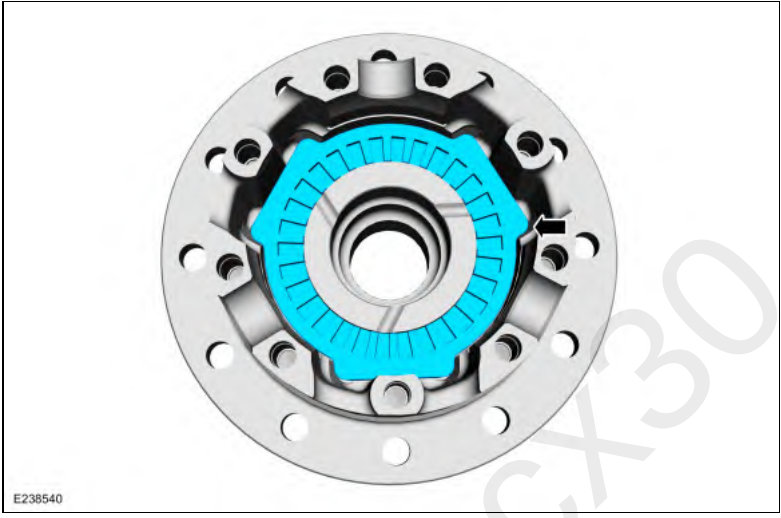
17. Remove the ELD cam ring washer.



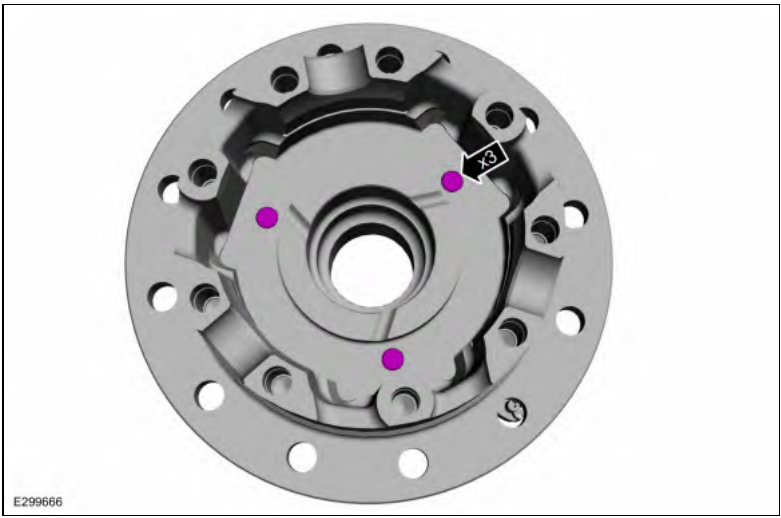
18. Remove the ELD cam ring wavy washer.



19. Remove the ELD cam ring.

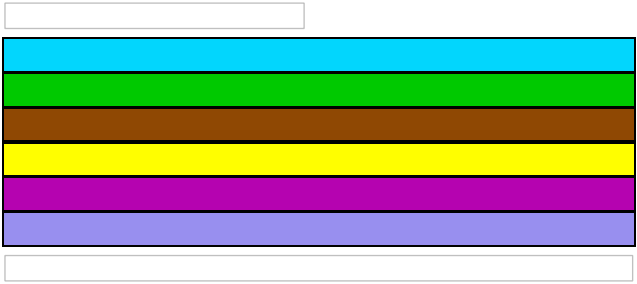
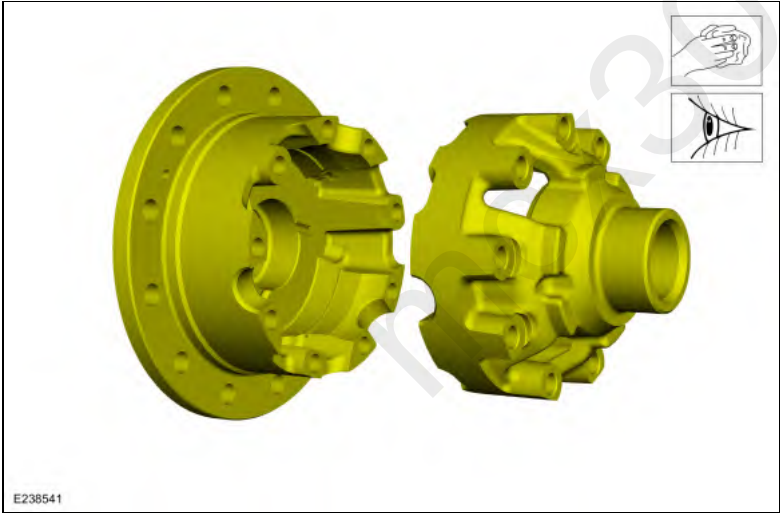


20. **NOTE:** Take extra care not to damage the component.
Remove the ELD locking plate dowels.

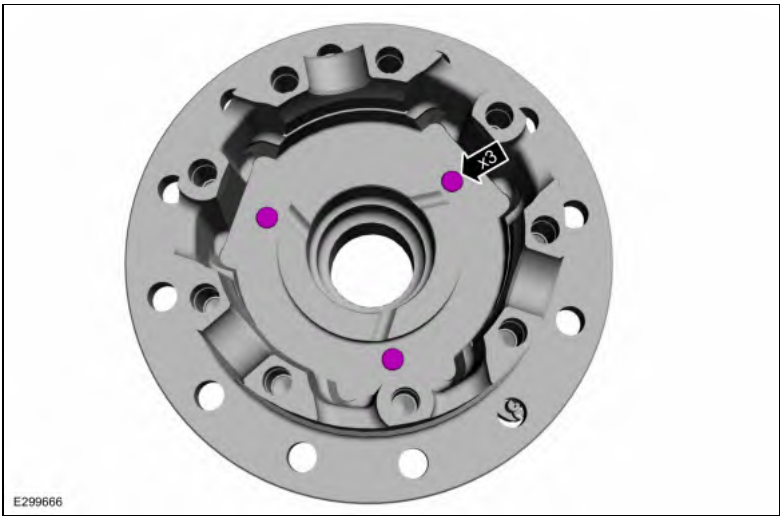


ASSEMBLY

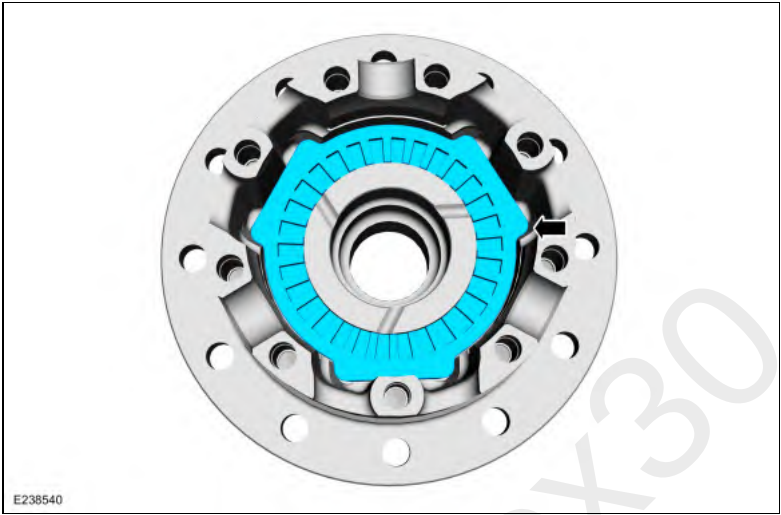
1. Clean and inspect the differential case.



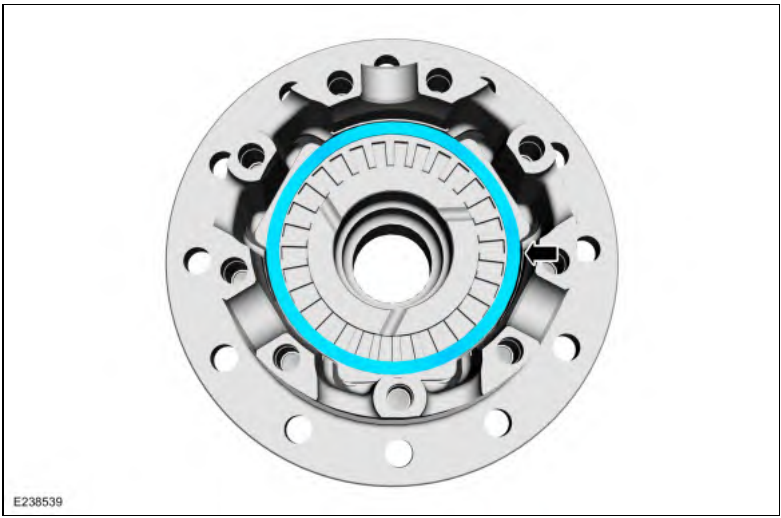
2. **NOTICE:** Make sure that the locating dowels remain installed.
- Install the ELD locking plate dowels.



3. Install the ELD cam ring.



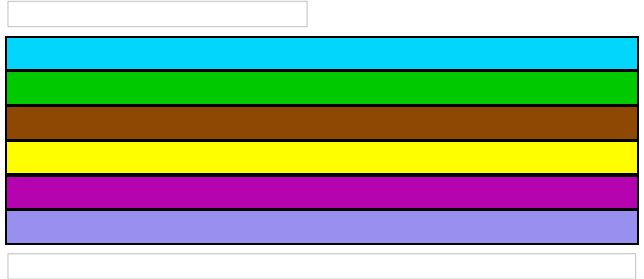
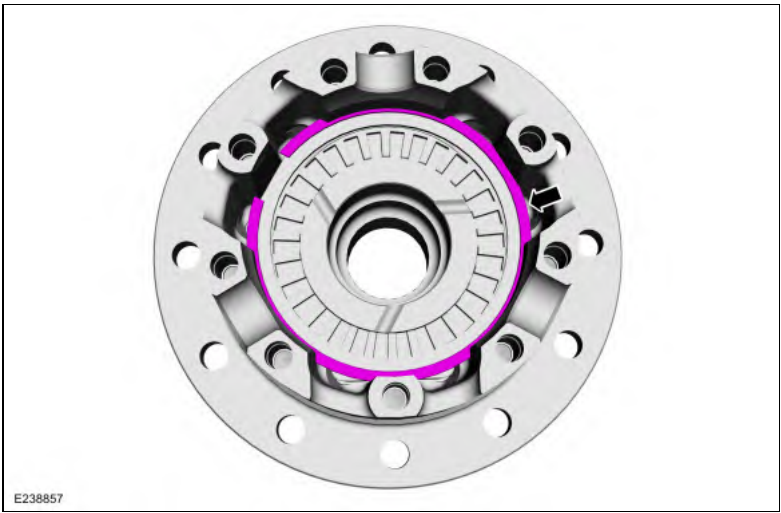
4. Install the ELD cam ring wavy washer.



5. Install the ELD cam ring washer.



6. Install the ELD cam ring retaining circlip.

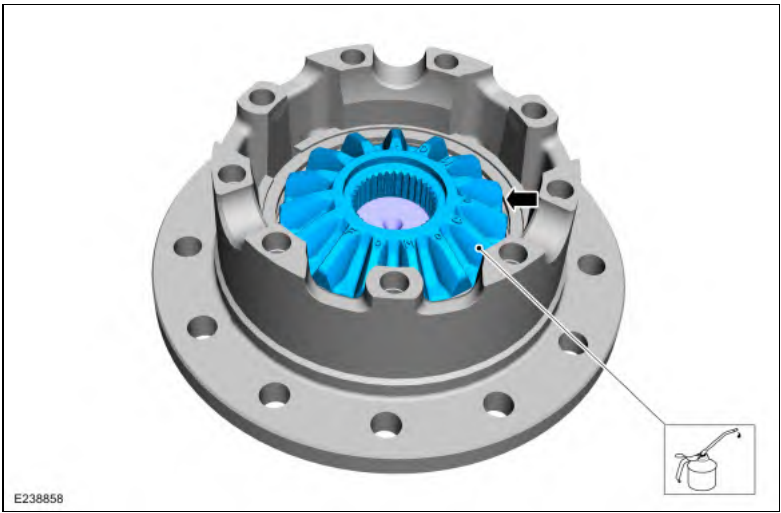


7. Install the LH side gear shim.

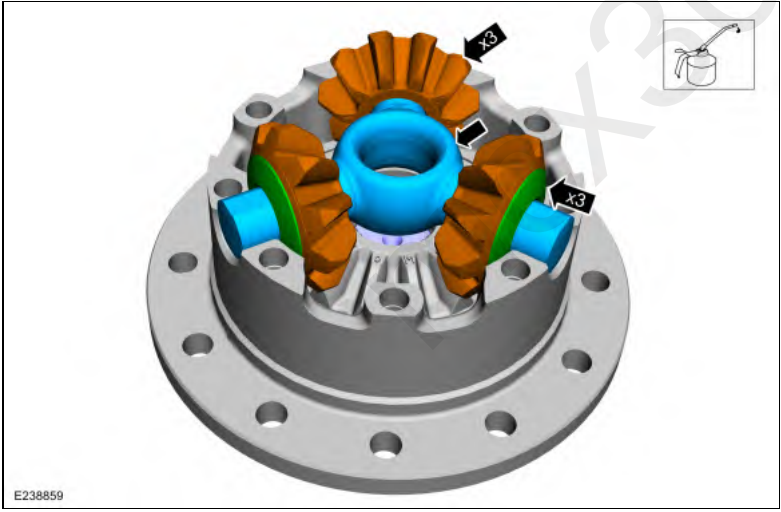


8. Lubricate and install the LH side gear.

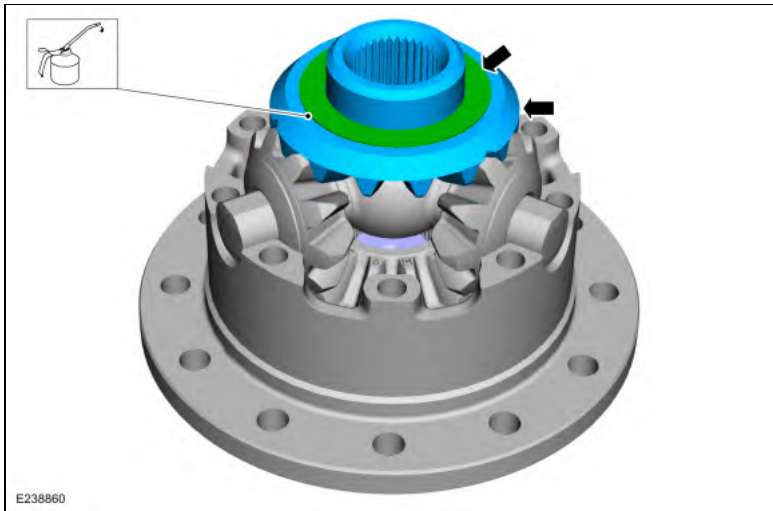
Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)



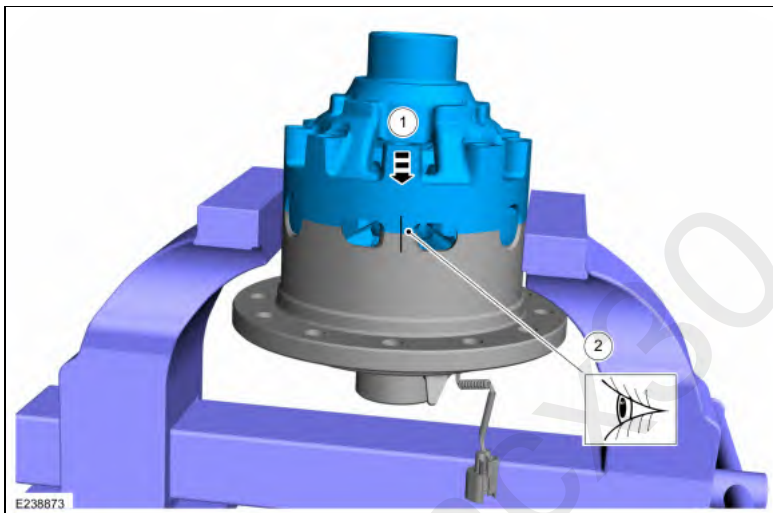
9. Lubricate and install the differential pinion shaft, pinion gears and pinion gear washers.
Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)



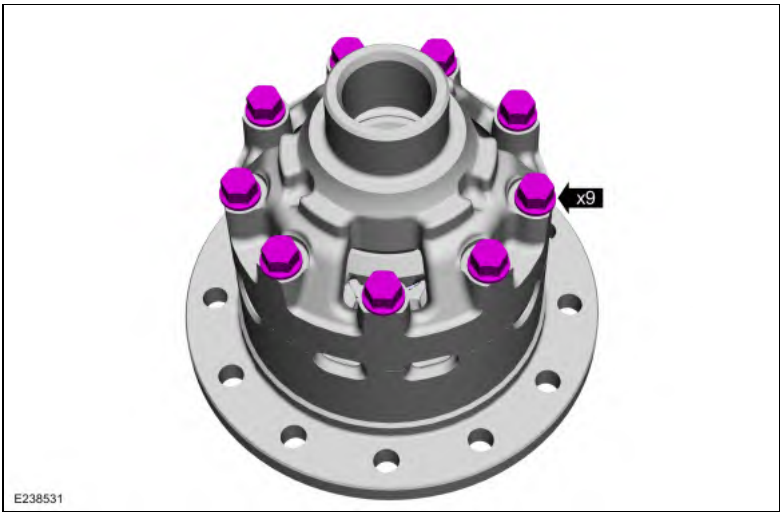
10. Lubricate and install the RH side gear and side gear shim.
Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)



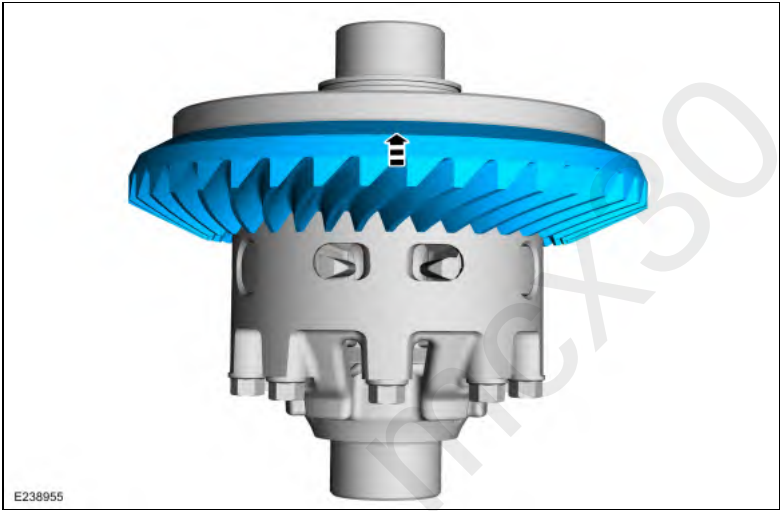
11. Install the carrier case.
1. Install the carrier case.
 2. Line up the index mark.
- Use the General Equipment: Vise



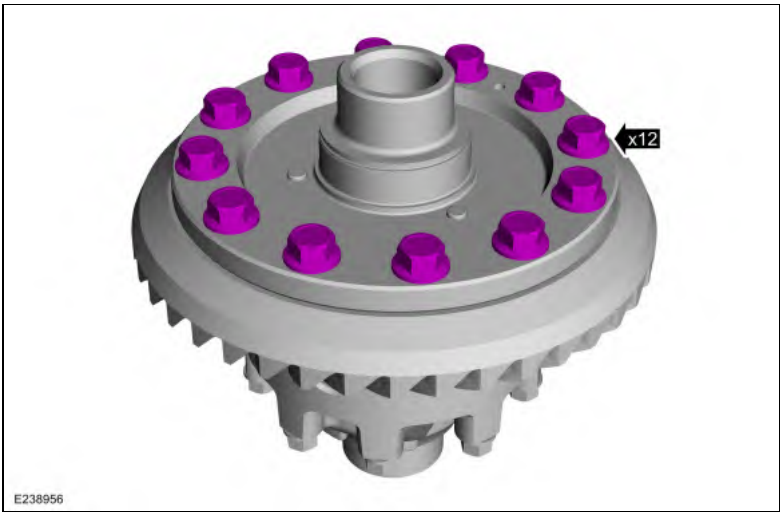
12. Install the differential carrier case bolts.
- Torque:*
- Stage 1: 46 lb.ft (63 Nm)
- Stage 2: 90°



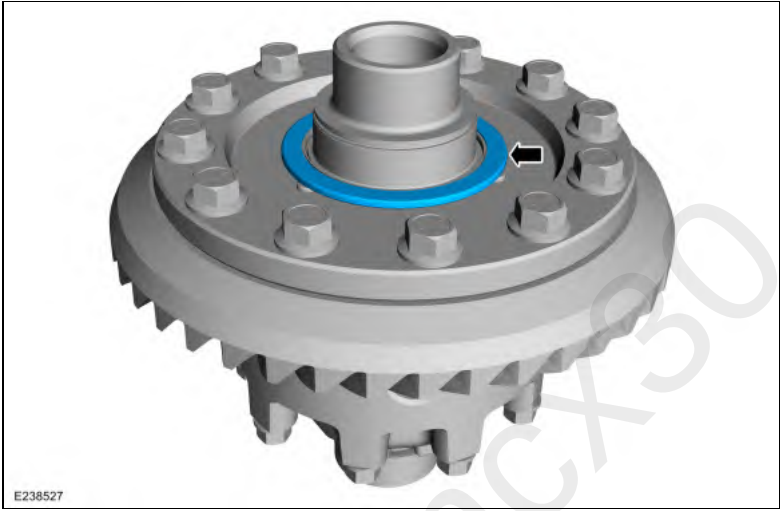
13. Install the ring gear.



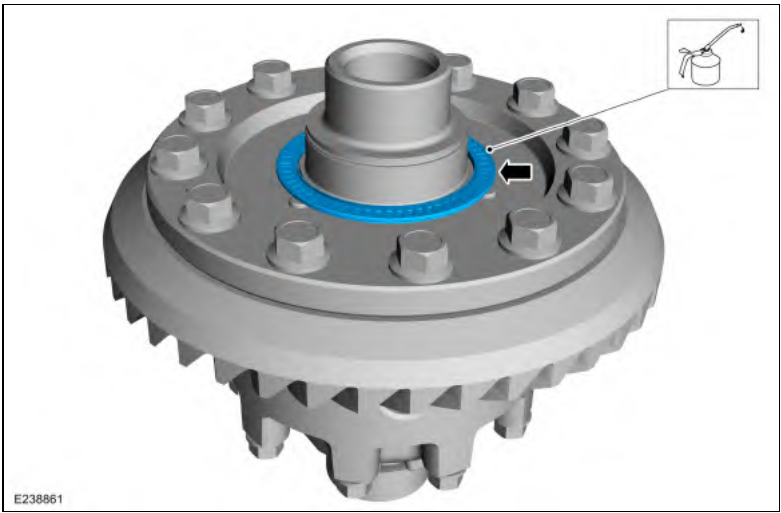
14. Install the new ring gear bolts.
Torque:
Stage 1: 46 lb.ft (63 Nm)
Stage 2: 60°



15. Install the ELD coil thrust plate.



16. Install the ELD coil thrust bearing.



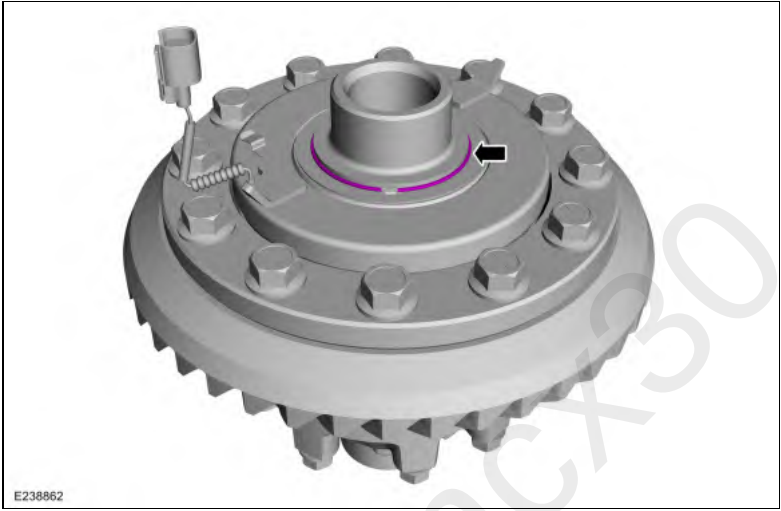
17. Install the ELD coil.



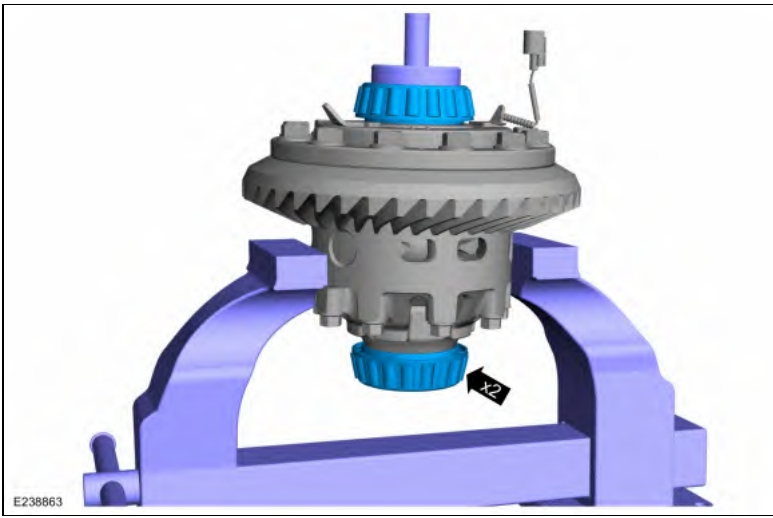
18. Install the ELD coil retaining ring washer.



19. Install the ELD coil retaining ring.



20. 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



21. 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).