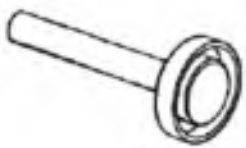
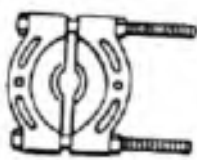


Differential Carrier - Vehicles With: Electronic Locking Differential (ELD)

Special Tool(s) / General Equipment

	205-D044 (D81T-4221-A) Installer, Differential Carrier Bearing
	205-D061 (D83T-4205-C2) Step Plate
	205-D064 (D84L-1123-A) Puller, Bearing
	205-D072 (D97L-4221-A) 2 Jaw Puller
Puller	
Punch	
Copper Hammer	

Materials

Name	Specification

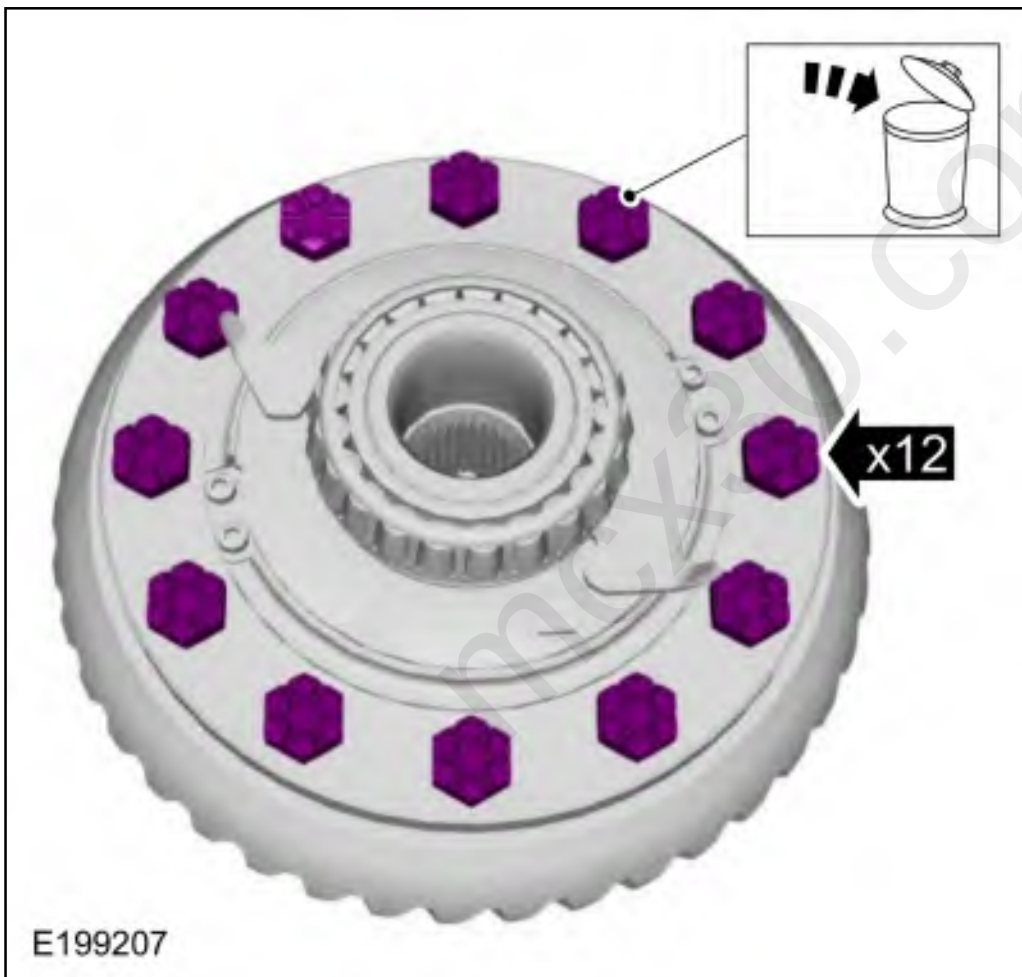
DISASSEMBLY

NOTE: The ELD coil, plunger and cam ring are only available with the differential carrier assembly.

1. Remove the differential carrier.

Refer to: [Differential Carrier](#) (205-02B Rear Drive Axle/Differential - Vehicles With: Ford 9.75 Inch Ring Gear, Removal and Installation).

2. Remove and discard the ring gear bolts.

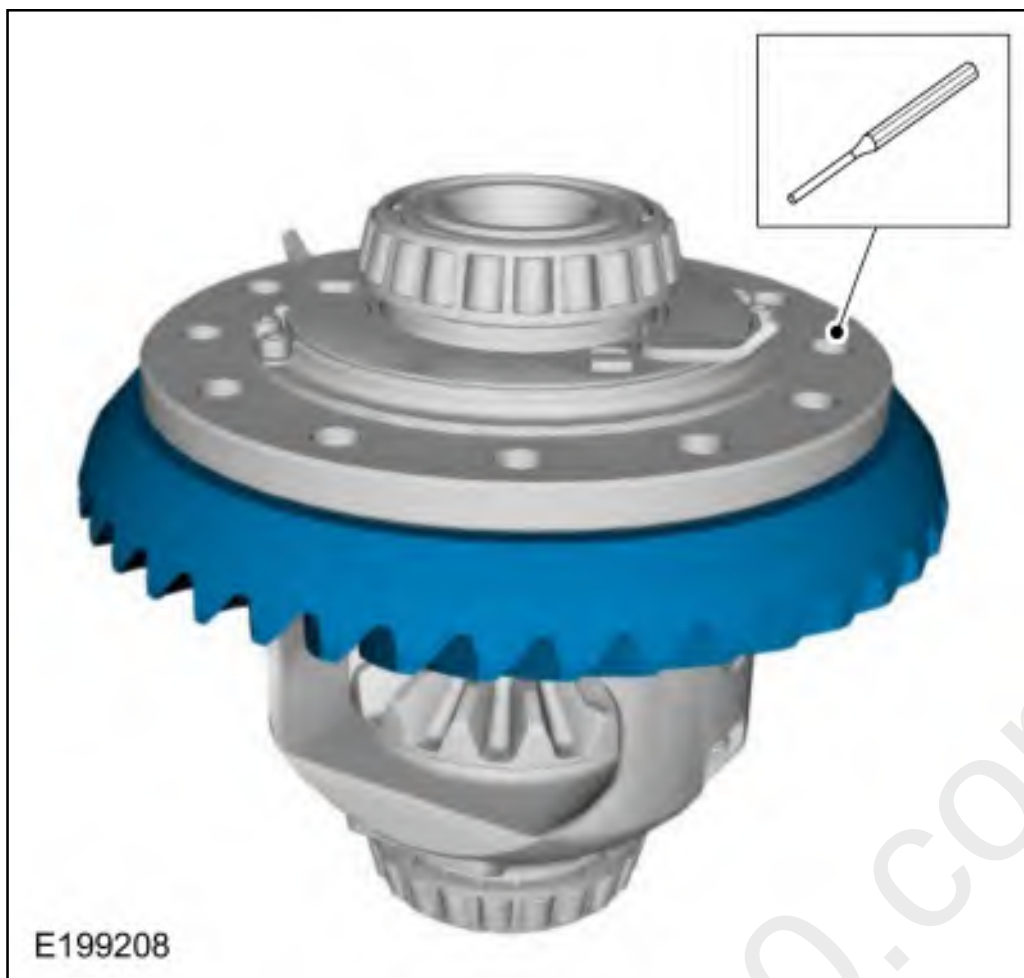


3. **NOTICE:** Care should be taken not to damage the differential ring gear bolt hole threads.

Using the general equipment, remove the ring gear.

Use the General Equipment: Punch

Use the General Equipment: Copper Hammer



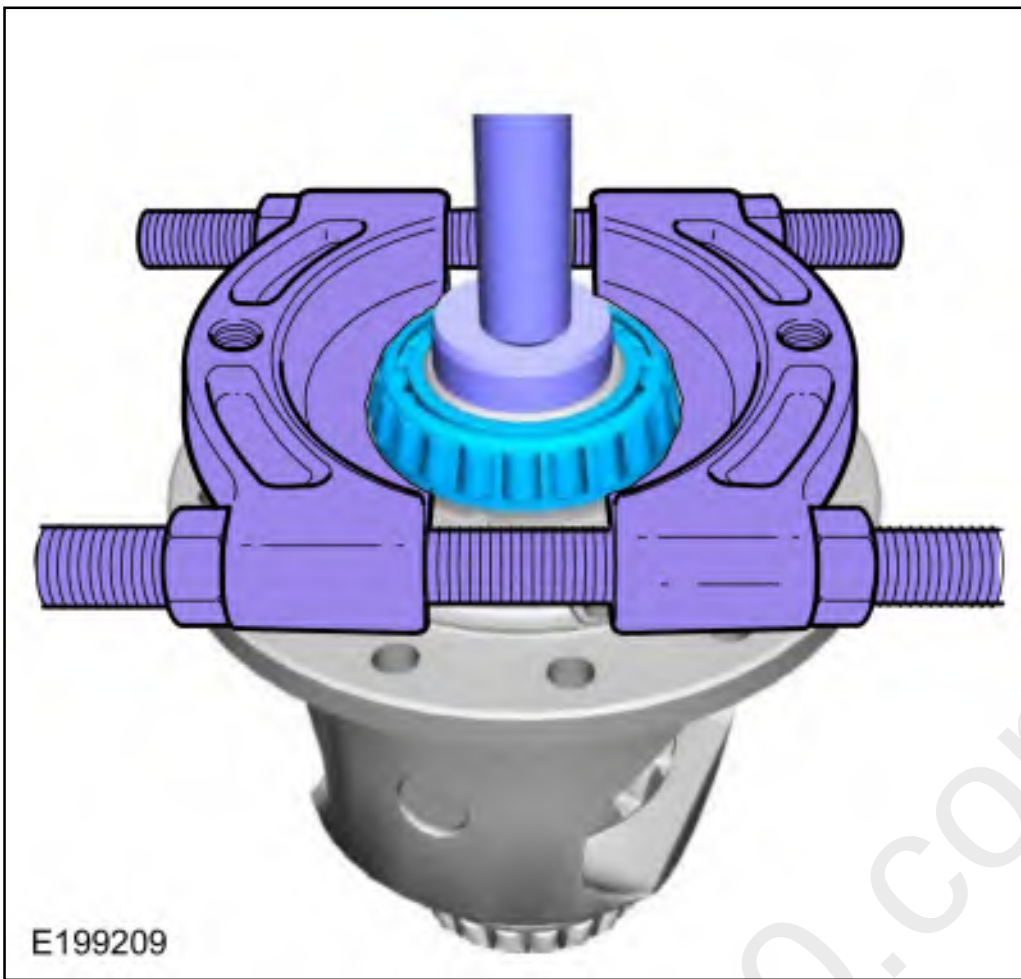
4. **NOTICE:** The differential flange and ring gear flange must be free of any old retaining compound material. Make sure both surfaces are clean and free of oil, dust and debris. Failure to clean the surfaces can result in ring gear runout concerns.

NOTE: Use solvent and Scotch-Brite® pads to remove.

Clean all traces of the old retaining compound material from the differential flange.



5. Using the special tools, remove the LH differential bearing.
Use Special Service Tool: 205-D064 (D84L-1123-A) Puller, Bearing. , 205-D061 (D83T-4205-C2) Step Plate.
Use the General Equipment: Puller



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



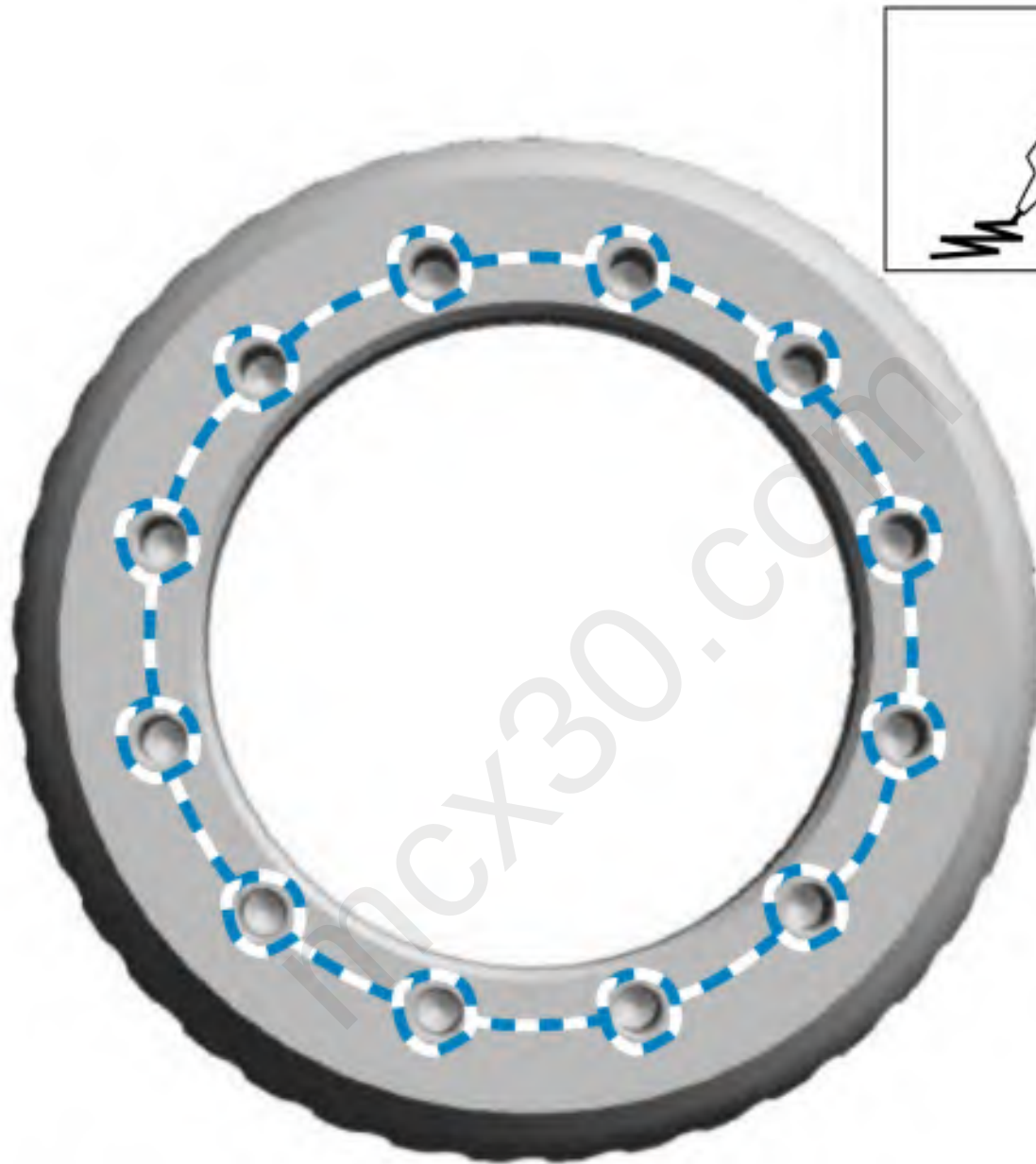
ASSEMBLY

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



2. Apply a one-eighth inch bead of maximum strength retaining compound on the rear face of the ring gear in the pattern shown.

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



E198365



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

Install the ring gear and the new differential ring gear bolts. Tighten in 2 stages.

Torque:

Stage 1: 44 lb.ft (60 Nm)

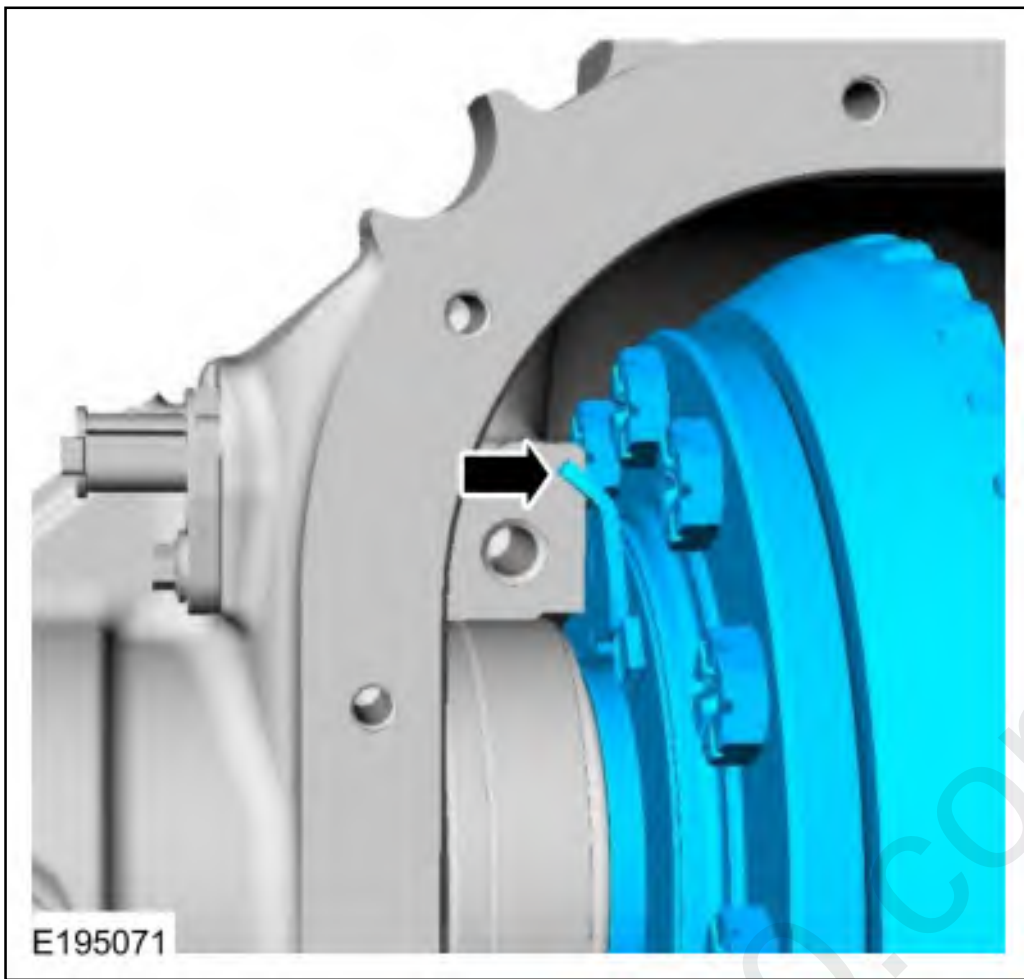
Stage 2: 90°



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

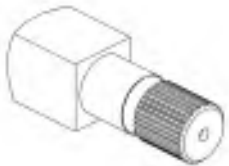
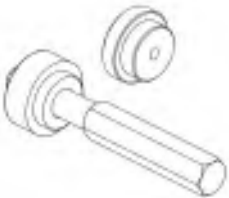
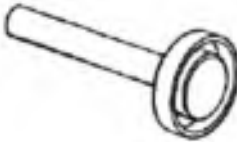
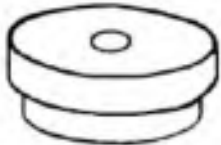
Install the differential carrier.

Refer to: [Differential Carrier](#) (205-02B Rear Drive Axle/Differential - Vehicles With: Ford 9.75 Inch Ring Gear, Removal and Installation).



Differential Carrier

Special Tool(s) / General Equipment

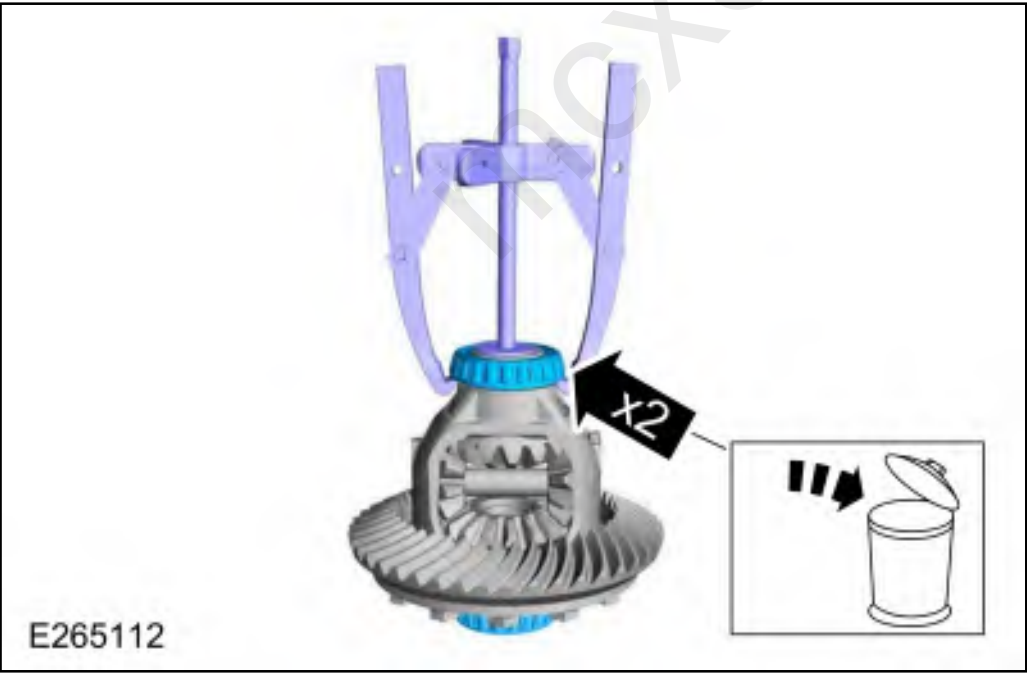
 E238630	205-384 (T97T-4205-A) Gauge, Differential (Traction Lock) TKIT-1997-F/FLM/LT TKIT-1998-LM (NavigatoR)
 E238632	205-386 (T97T-4205-D) Gauge, Differential (Traction Lock) TKIT-1997-F/FLM/LT TKIT-1998-LM (NavigatoR)
	205-D044 (D81T-4221-A) Installer, Differential Carrier Bearing
	205-D061 (D83T-4205-C2) Step Plate
 E155534	205-D072 (D97L-4221-A) 2 Jaw Puller
Hydraulic Press	
Punch	

Materials

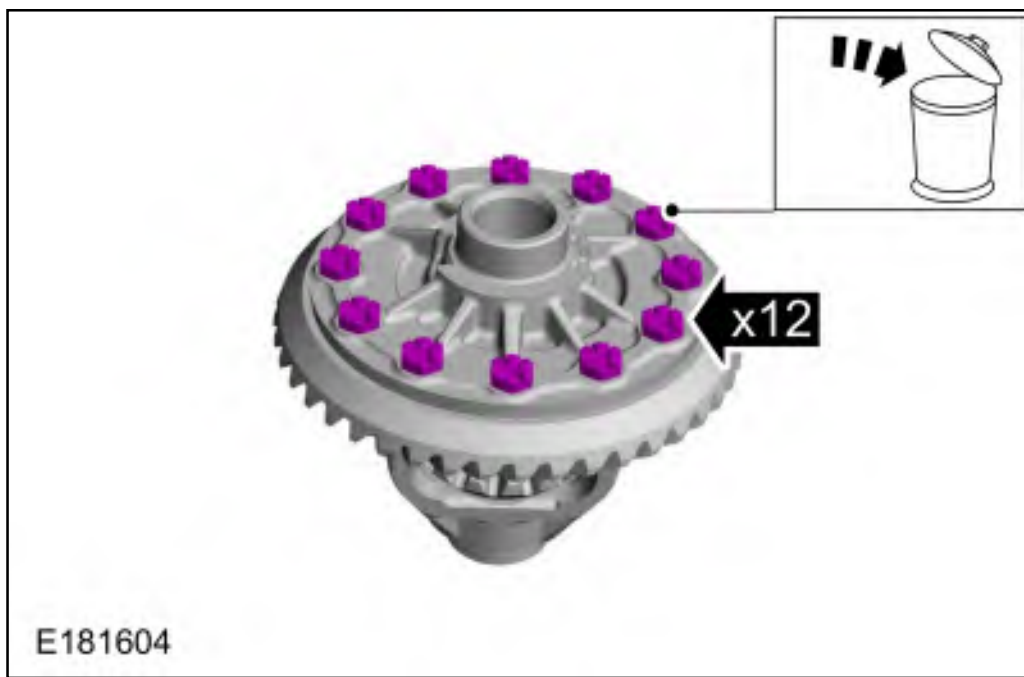
Name	Specification
Motorcraft® Premium Long-Life Grease XG-1-E1	ESA-M1C75-B
Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant XY-75W85-QL	WSS-M2C942-A
Maximum Strength Retaining Compound Loctite® 638™	WSK-M2G349-A8

DISASSEMBLY

1. Remove the differential carrier.
Refer to: [Differential Carrier](#) (205-02B Rear Drive Axle/Differential - Vehicles With: Ford 9.75 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.



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

Using the general equipments, remove the ring gear.

Use the General Equipment: Punch

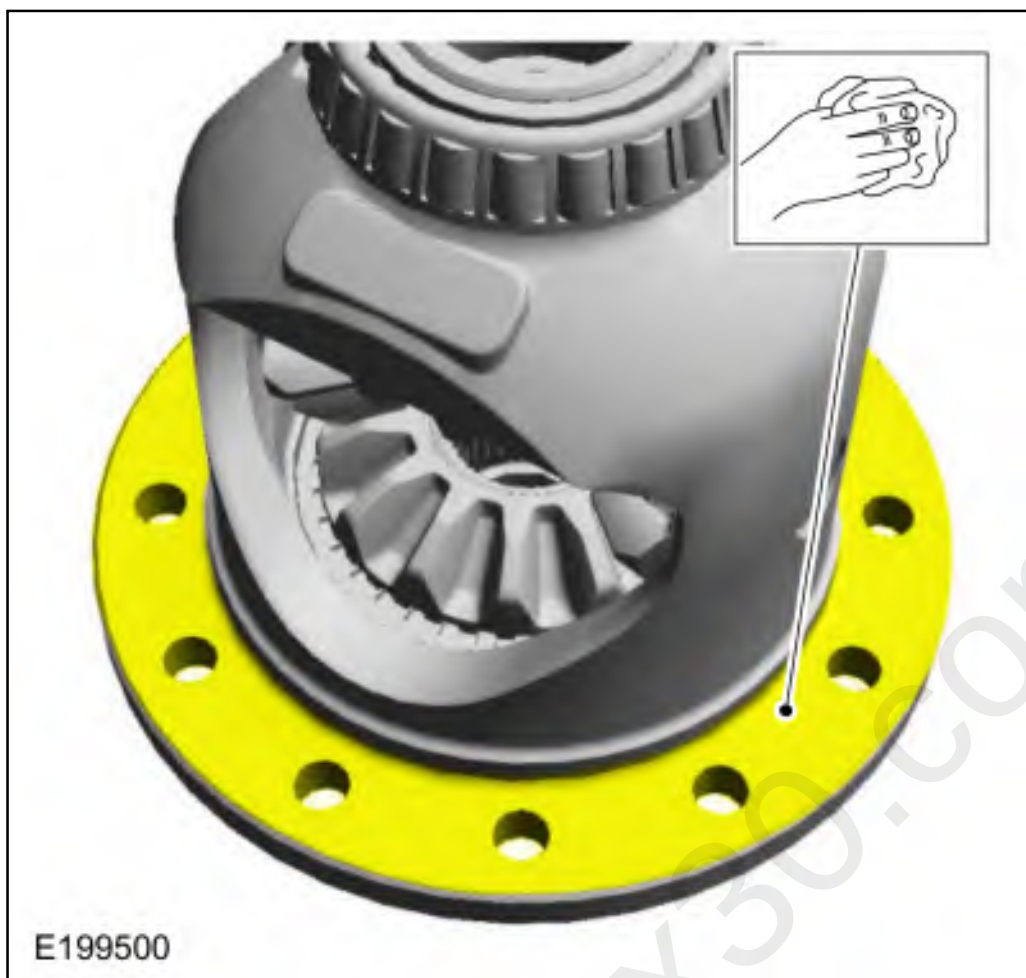
Use the General Equipment: Copper Hammer



5. **NOTICE:** The differential flange and ring gear flange must be free of any old retaining compound material. Make sure both surfaces are clean and free of oil, dust and debris. Failure to clean the surfaces can result in ring gear runout concerns.

NOTE: Use solvent and Scotch-Brite® pads to remove.

Clean all traces of the old retaining compound material from the differential flange.



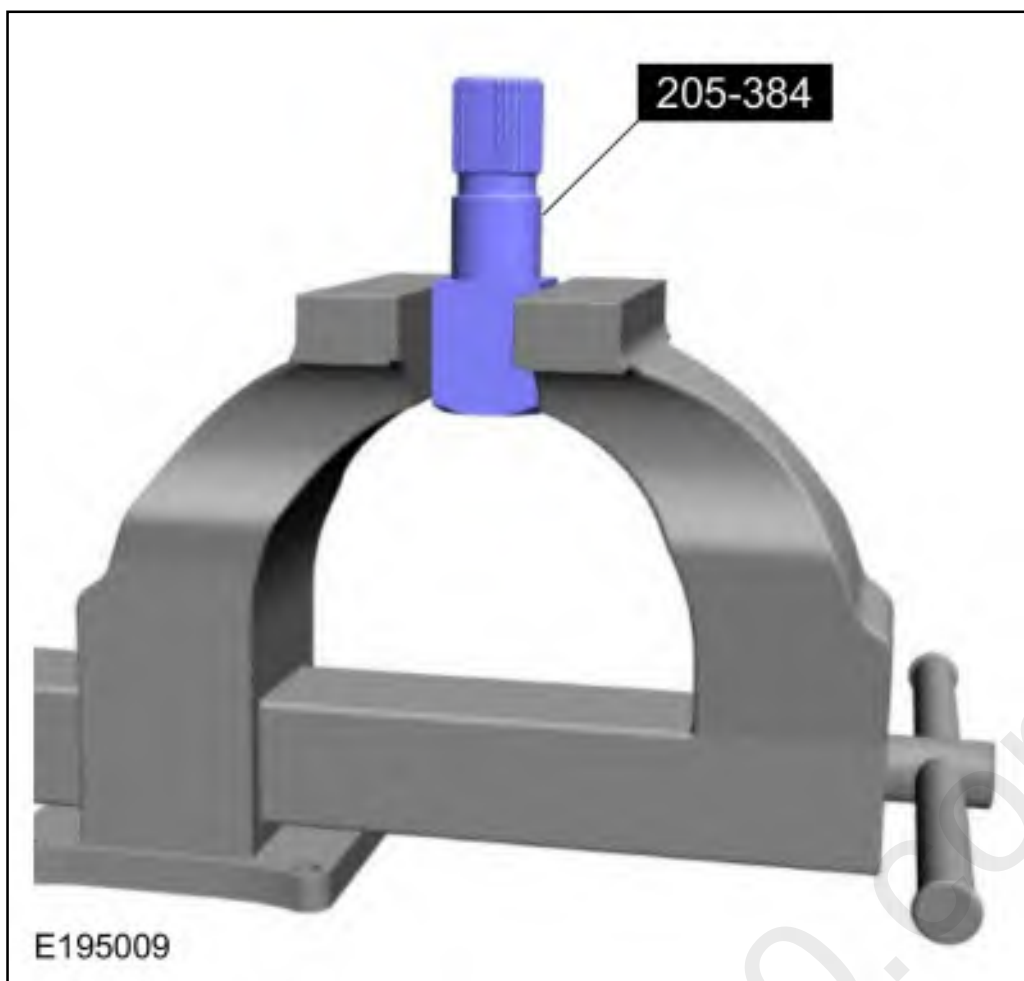
6. Remove the differential pinion shaft lock bolt.



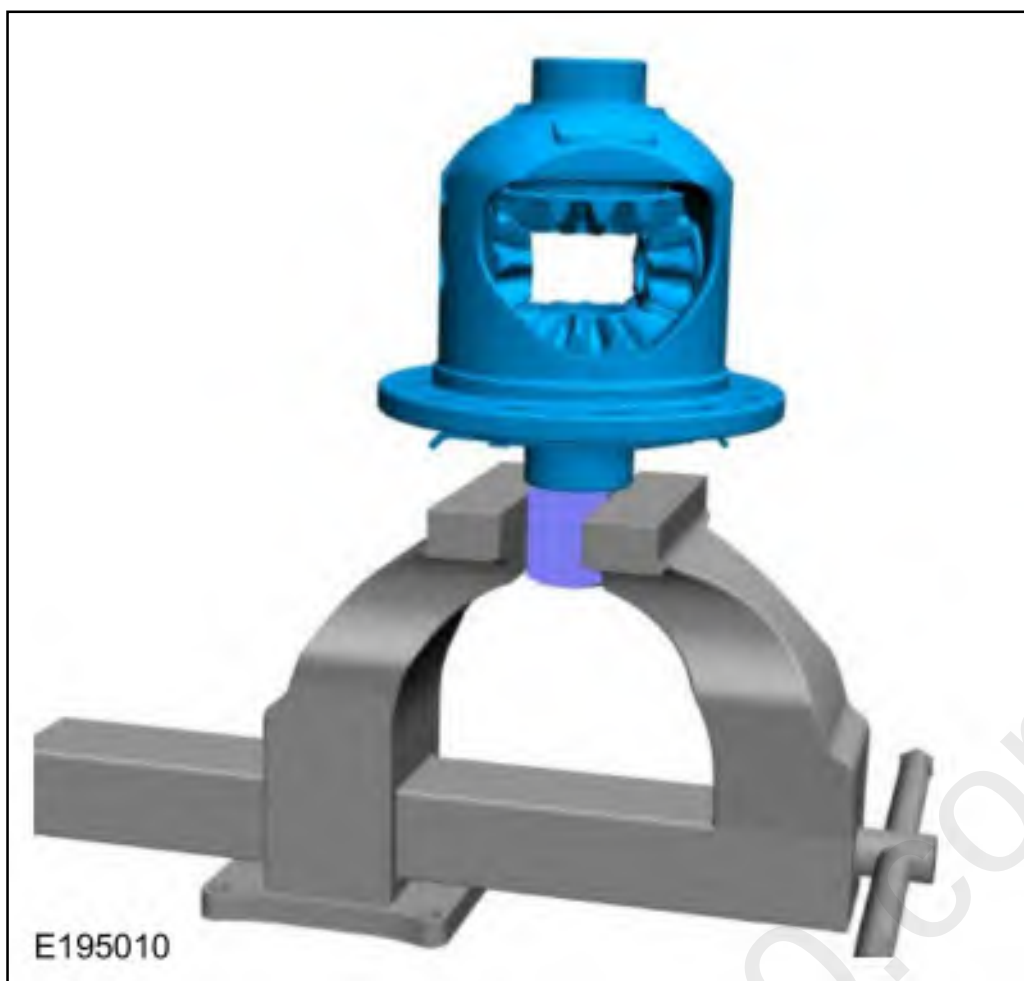
7. Remove the differential pinion shaft.



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



9. Install the differential case on the Differential Gauge.

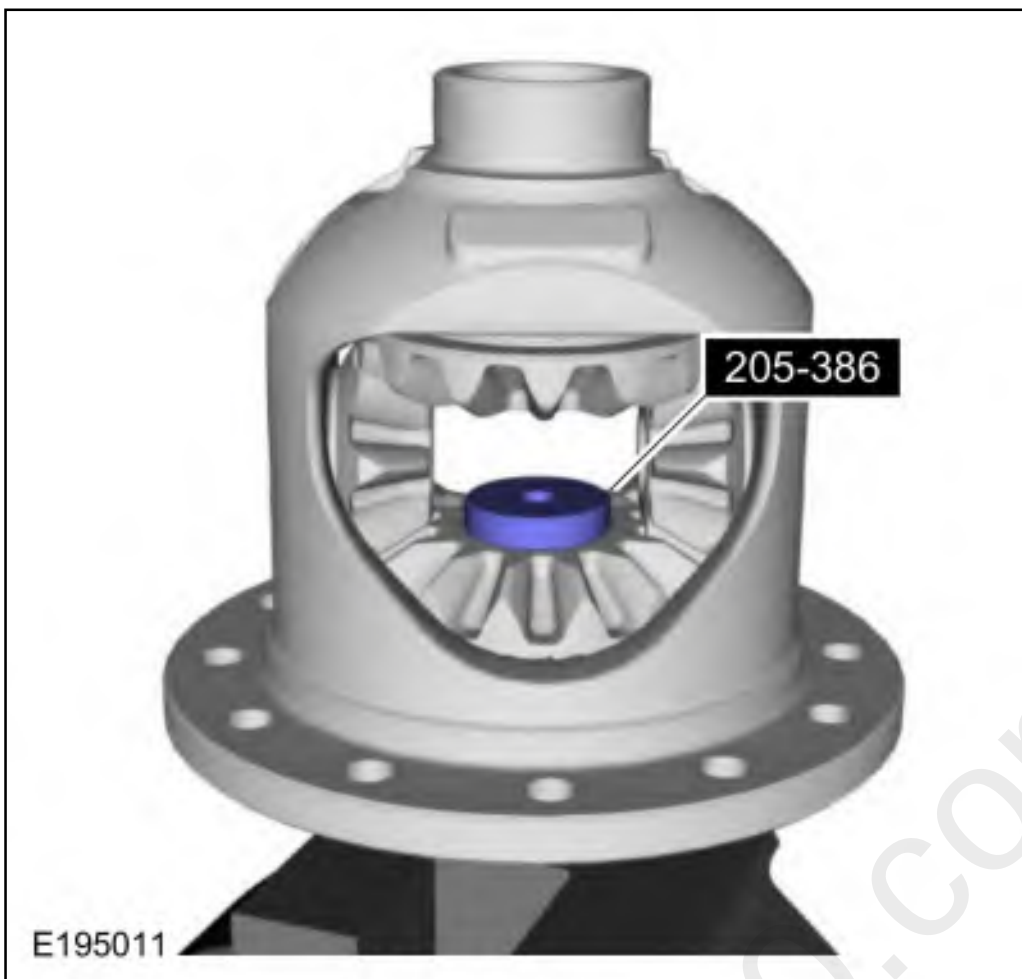


10. **NOTE:** *Apply a small amount of grease to the centering hole of the Differential Gauge step plate.*

Install the Differential Gauge step plate in the bottom differential side gear.

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

Material: Motorcraft® Premium Long-Life Grease / XG-1-E1 (ESA-M1C75-B)



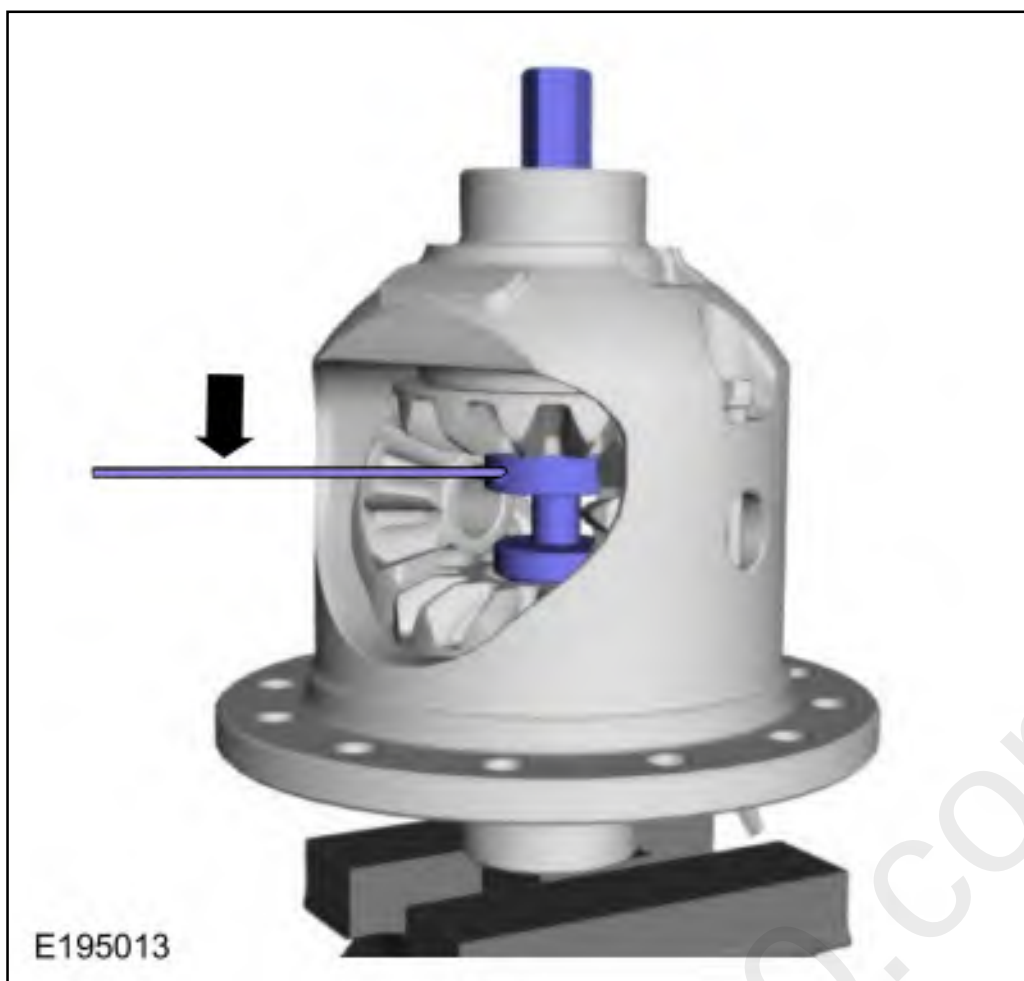
11. Install the Differential Gauge nut in the upper differential side gear. Hold the nut in position while installing the Differential Gauge hex screw. Tighten the hex-head screw until contact is made with the Step Plate.

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



12. **NOTE:** *The dowel bar is used to keep the nut from turning when the forcing screw is tightened.*

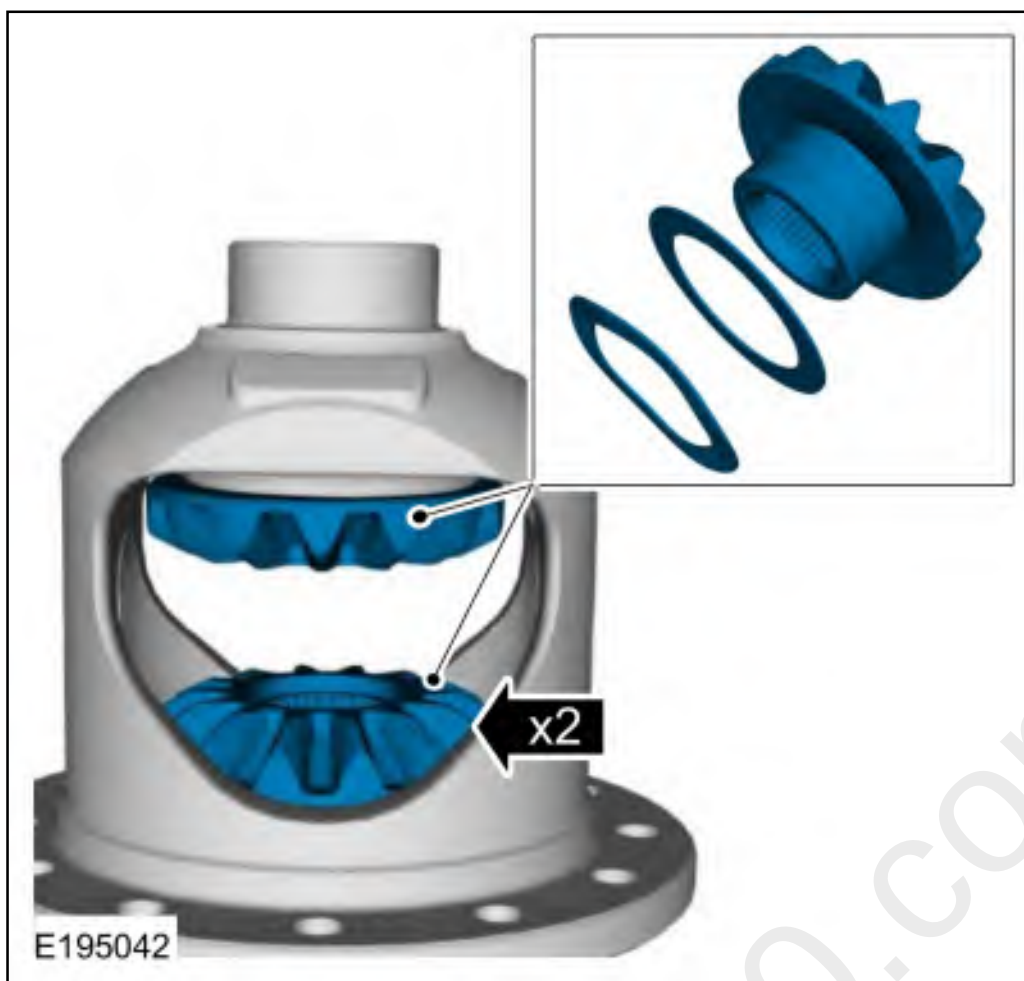
Insert a suitable dowel bar in the hole of the nut. Tighten the forcing screw to force the differential side gears away from the differential pinion gears.



13. Rotate and remove the differential pinion gears and differential pinion gear thrust washers. Remove the Differential Gauges.



14. Remove the differential side gears, the differential side gear thrust washers and the differential side gear wave washers.



ASSEMBLY

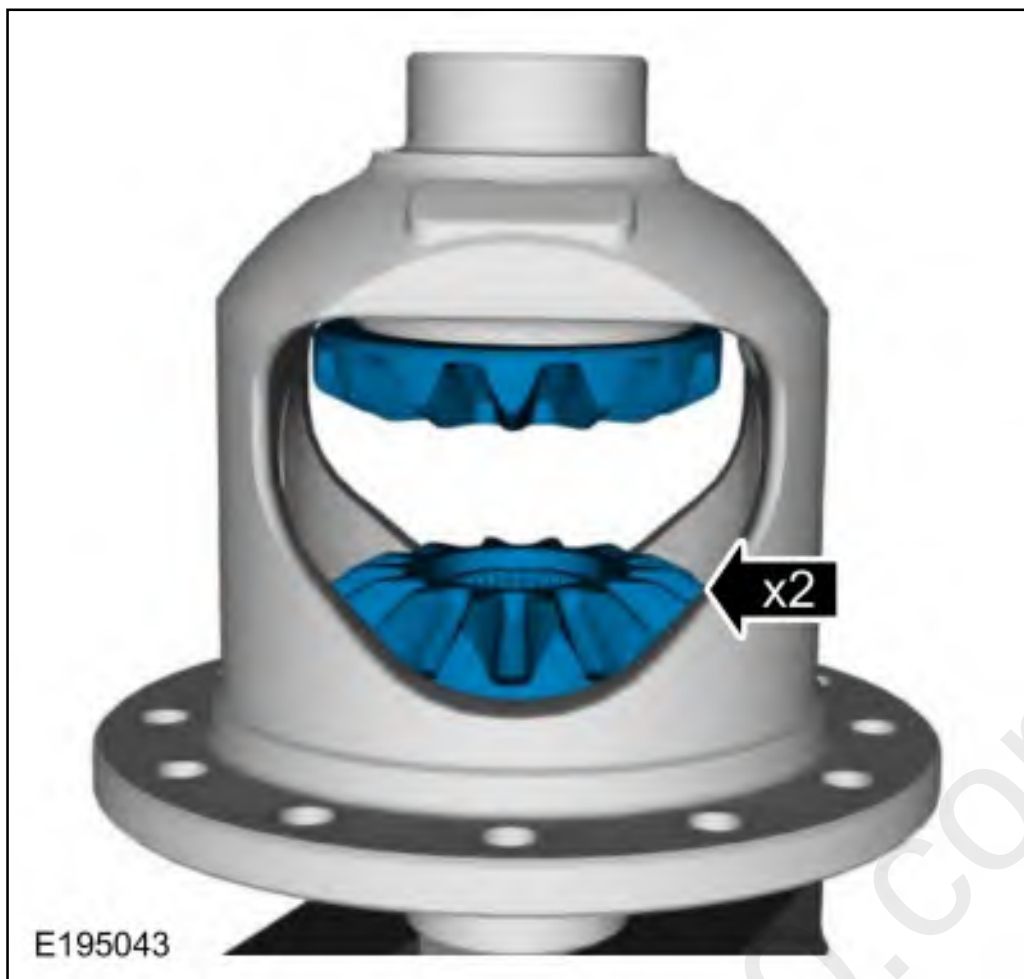
1. **NOTE:** Lubricate the differential side gear thrust washers, wave washers and the side gear journals with axle lubricant.

Position the differential side gear thrust washers and 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:** Apply a small amount of grease to the step plate bore.

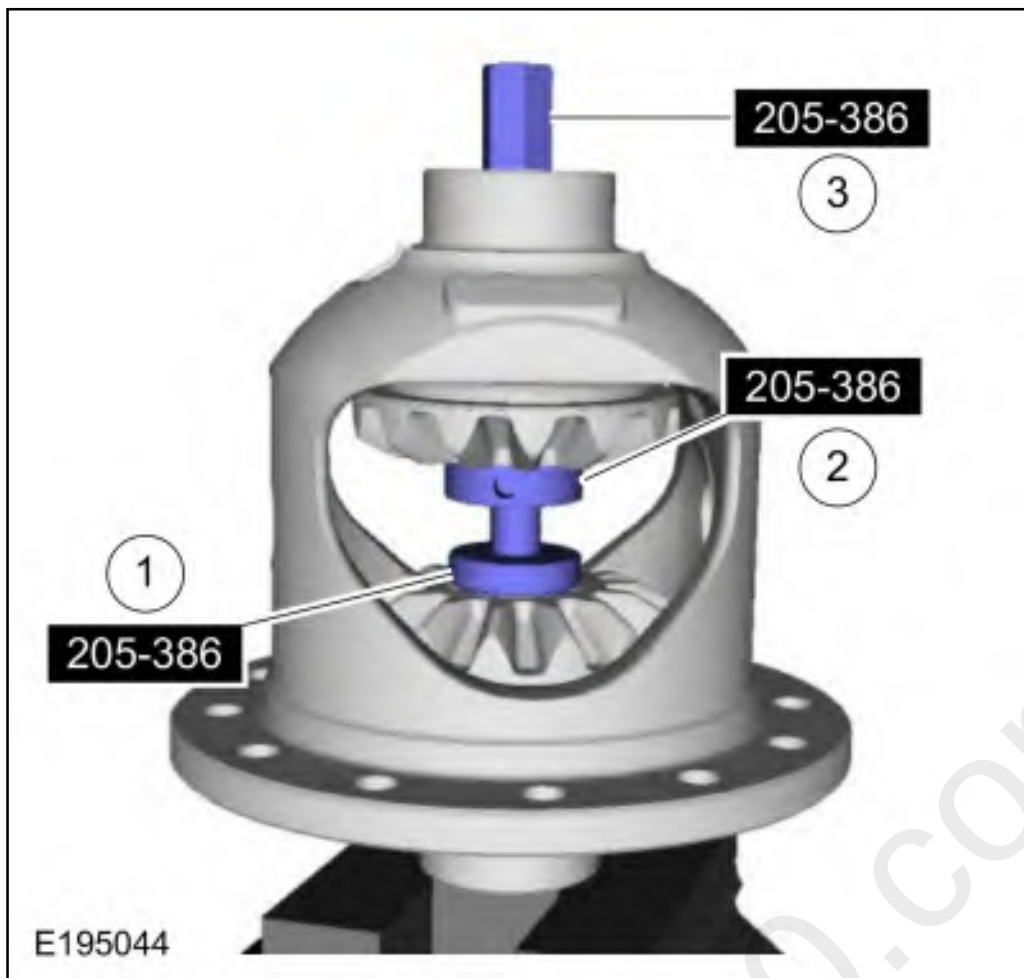
NOTE: If necessary, insert the dowel bar in the nut bore to keep the nut from turning as the hex screw is tightened.

Assemble the Differential Gauge to the differential case.

1. Position the Differential Gauge step plate in the bottom differential side gear.
2. Position the Differential Gauge hex screw plate in the top differential side gear and hold it in place.
3. Install the Differential Gauge hex screw and tighten it 2 turns after it contacts the bottom step plate.

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

Material: Motorcraft® Premium Long-Life Grease / XG-1-E1 (ESA-M1C75-B)



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

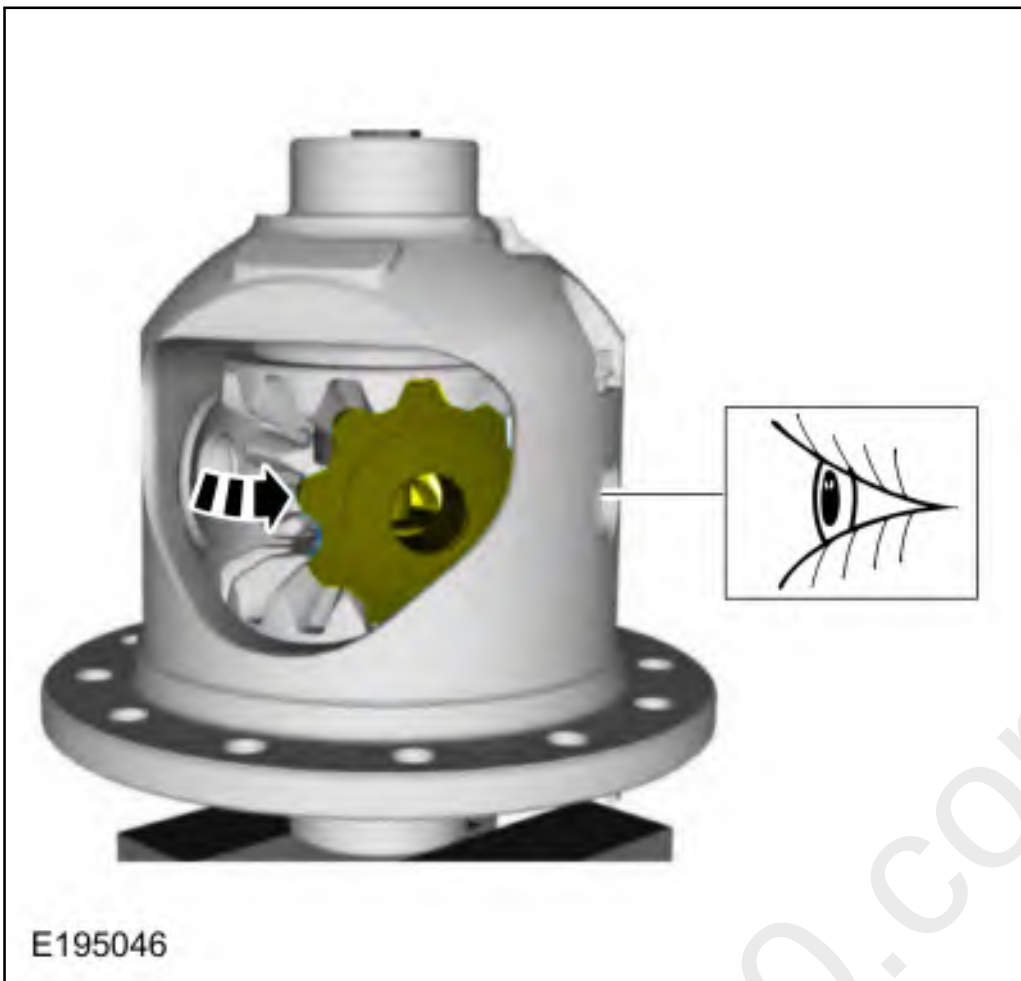
NOTE: Make sure the differential pinion gears are 180 degrees apart so they will align correctly with the pinion shaft bore.

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.

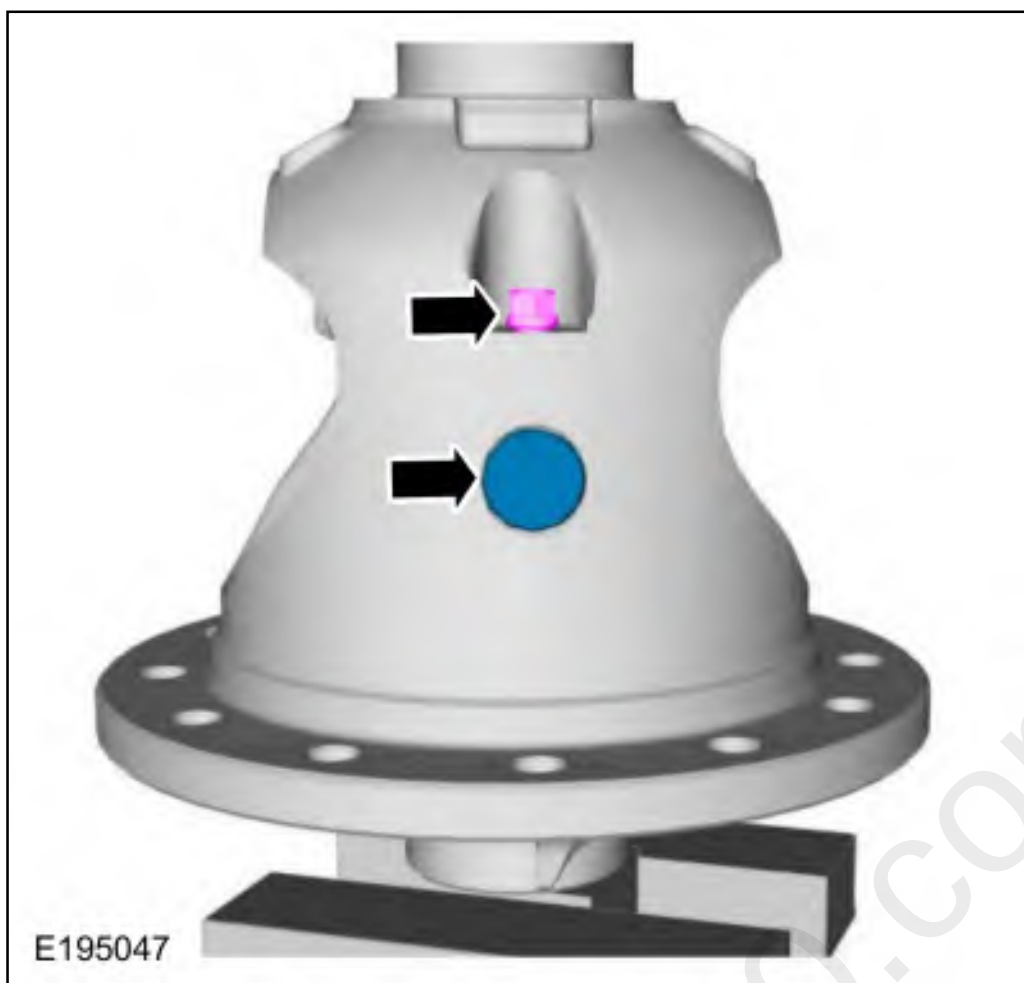
Material: Motorcraft® SAE 75W-85 Premium Synthetic Hypoid Gear Lubricant / XY-75W85-QL (WSS-M2C942-A)



5. Rotate the differential pinion gears to align the differential pinion shaft bore. Remove the Differential Gauges after verifying the differential pinion shaft bore alignment.



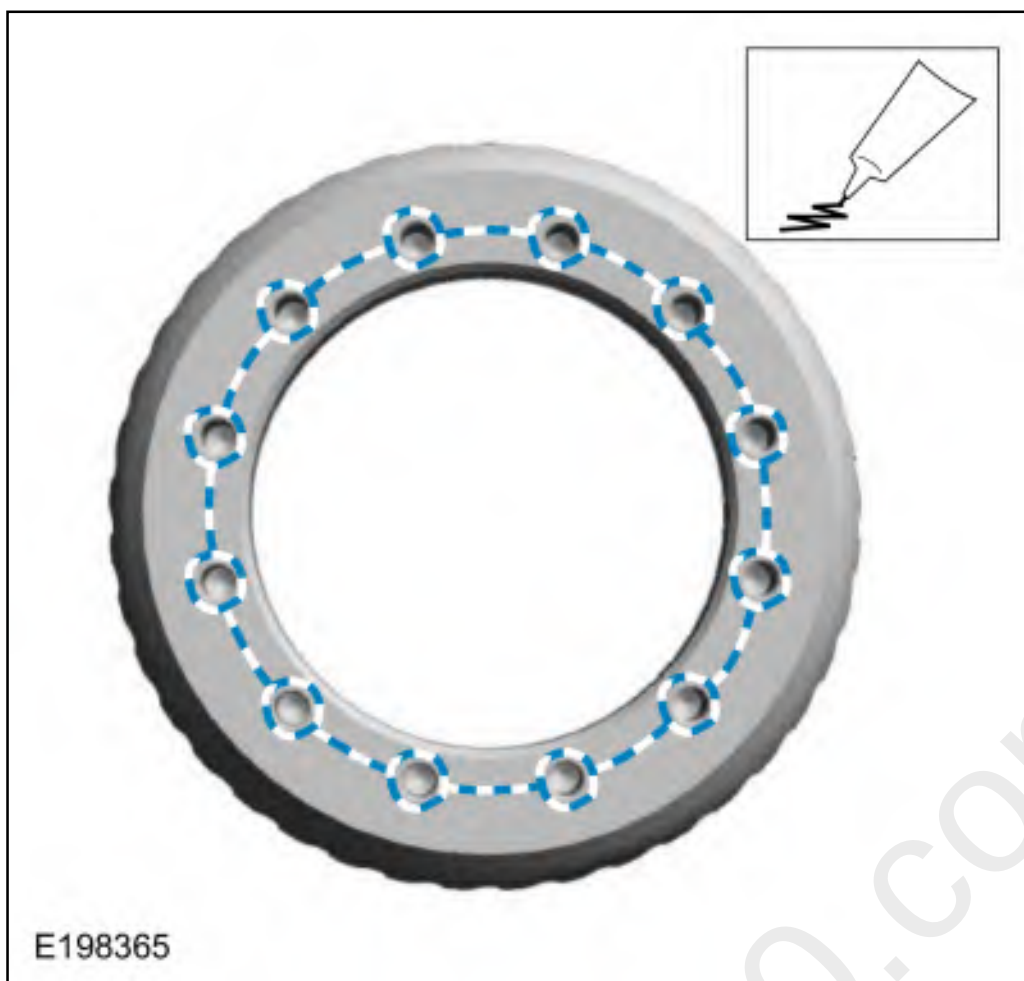
6. Insert the differential pinion shaft, and install a new differential pinion shaft lock bolt finger-tight.



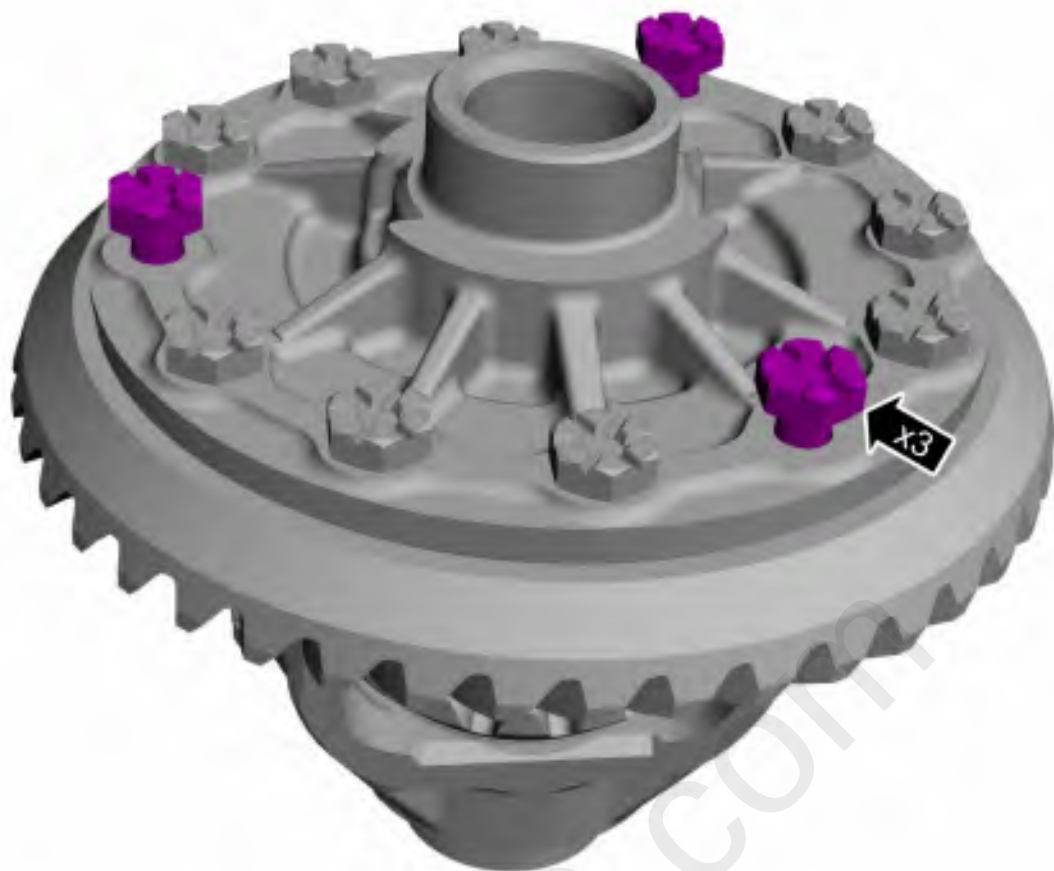
7. **NOTE:** For 3.55 and 3.73 ratio gear sets only.

Apply a one-eighth inch bead of retaining compound on the ring gear mounting face in the pattern shown.

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



8. 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



E267895



9. **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°



E179487



10. Using the general equipment, install the new differential bearings.

Use Special Service Tool: 205-D044 (D81T-4221-A) Installer, Differential Carrier Bearing.



E267771



11. Install the differential carrier.

Refer to: [Differential Carrier](#) (205-02B Rear Drive Axle/Differential - Vehicles With: Ford 9.75 Inch Ring Gear, Removal and Installation).

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