

Differential Carrier

Special Tool(s) / General Equipment

	211-023 (T74P-3044-A1) C-Frame and Screw
Dial Indicator	
Wooden Block	

Materials

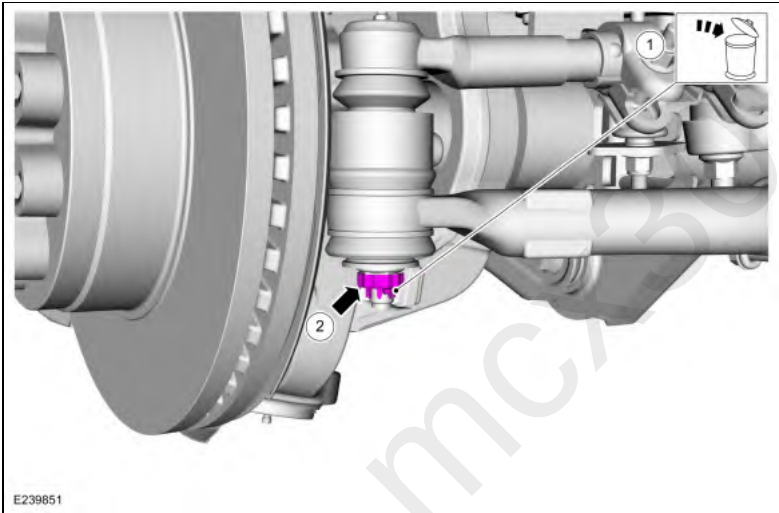
Name	Specification
Motorcraft® High Performance Engine RTV Silicone TA-357	WSE-M4G323-A6

Removal

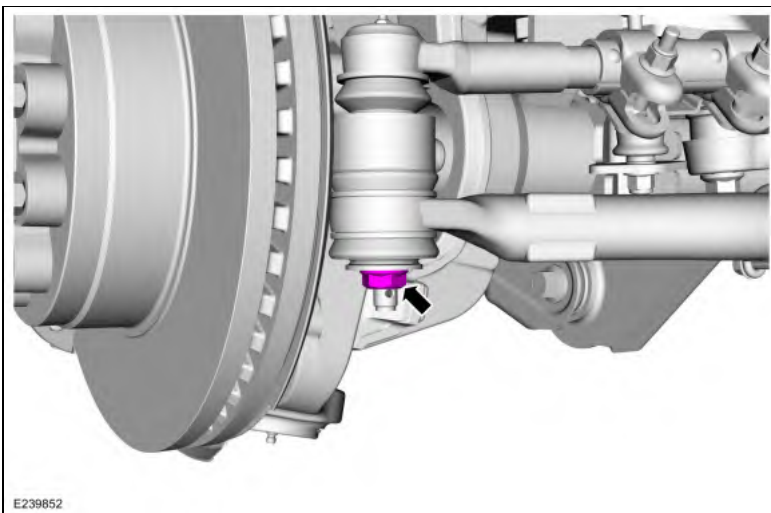
1. Remove the axle shafts and seals.
Refer to: Axle Shaft Seal (205-03 Front Drive Axle/Differential, Removal and Installation).
2.

1. Remove and discard the sector shaft arm drag link cotter pin

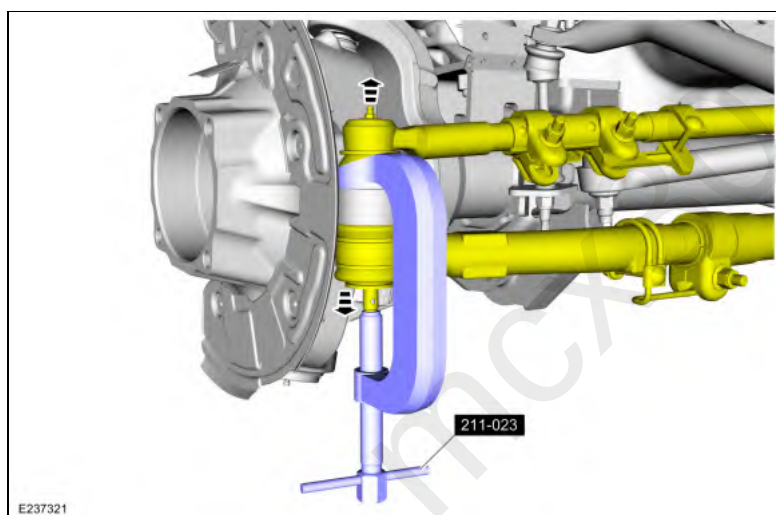
2. Remove the sector shaft arm drag link nut retainer.



3. Remove the sector shaft arm drag link and tie rod nut.

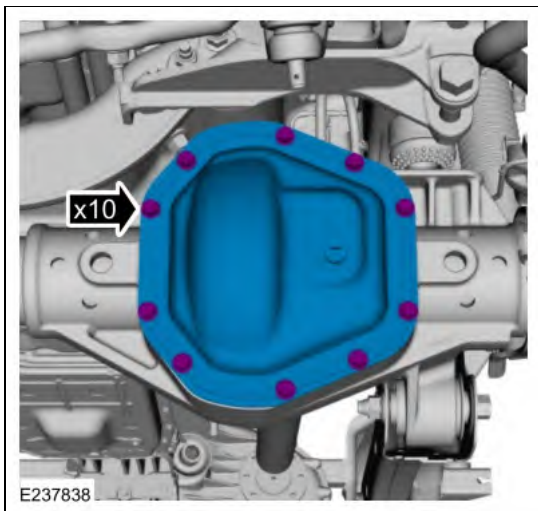


4. Disconnect the RH outer tie rod end and drag link from the wheel knuckle.
Use Special Service Tool: 211-023 (T74P-3044-A1) C-Frame and Screw.



5. **NOTE:** *Be prepared to collect escaping fluid.*

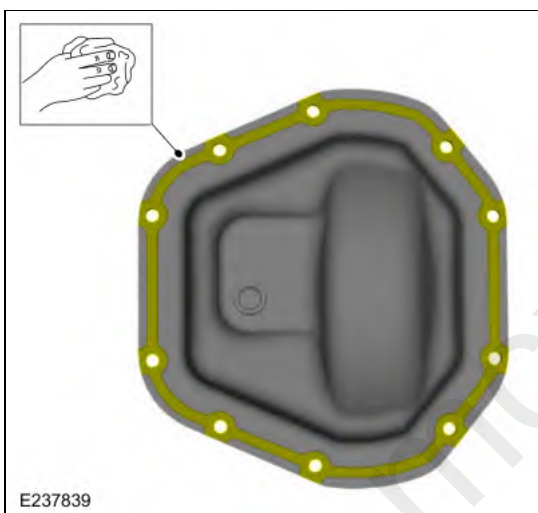
Remove the bolts and the differential housing cover. Drain the lubricant



6. **NOTE:** Remove all of the silicone gasket and make sure the surfaces are free of oil before applying the new silicone gasket.

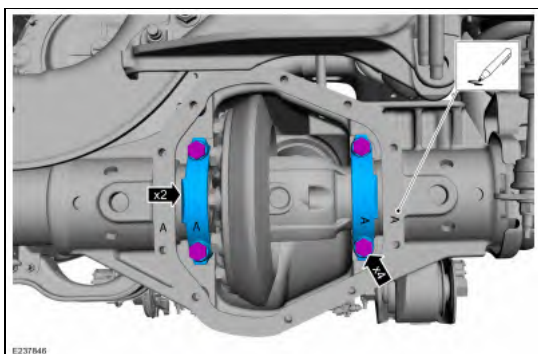
Clean the gasket material from the differential housing and the differential housing cover.

Refer to: RTV Sealing Surface Cleaning and Preparation (303-00 Engine System - General Information, General Procedures).

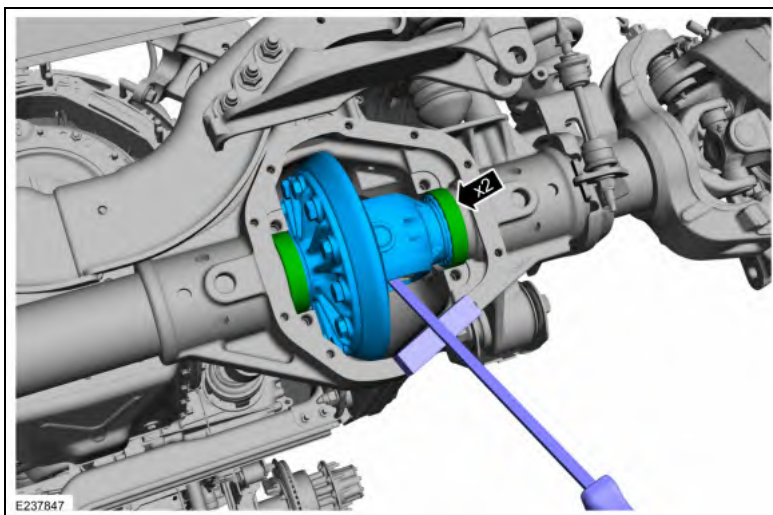


7. **NOTE:** Prior to removal, note the positioning of the stamped mating letters on the bearing caps and the differential housing for correct reassembly.

Remove the bolts and the bearing caps.

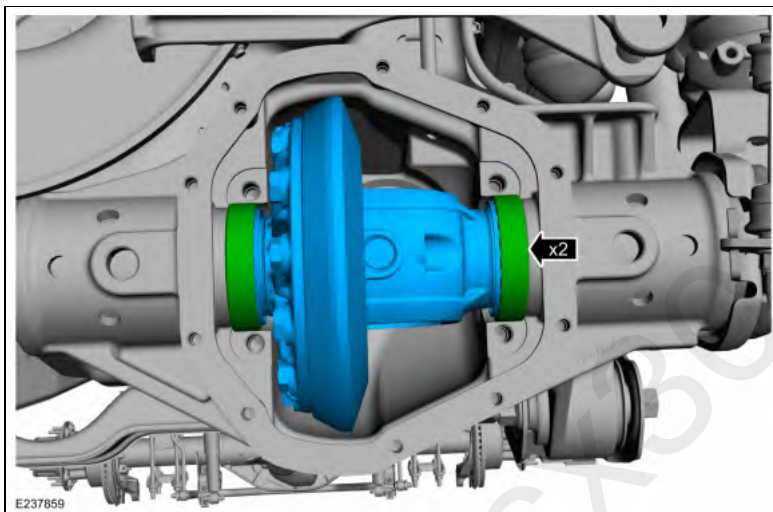


8. Using a pry bar and the general equipment, remove the differential assembly from the axle housing.
Use the General Equipment: Wooden Block



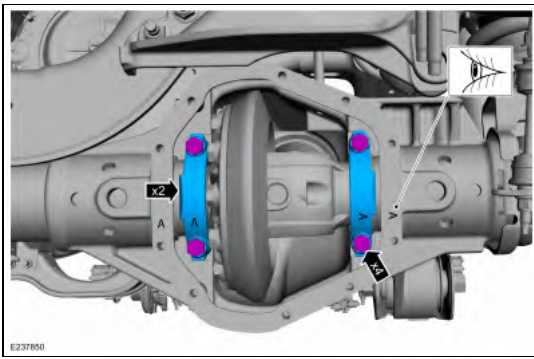
Installation

1. Position the differential assembly in the axle housing.



2. **NOTE:** Match the positioning of the mating letters on the bearing caps and the differential housing.

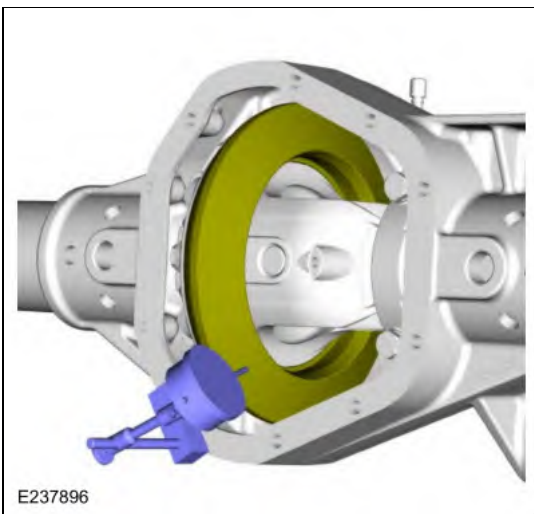
Install the bearing caps and the bolts.
Torque: 80 lb.ft (108 Nm)



3. Check the ring gear backlash.

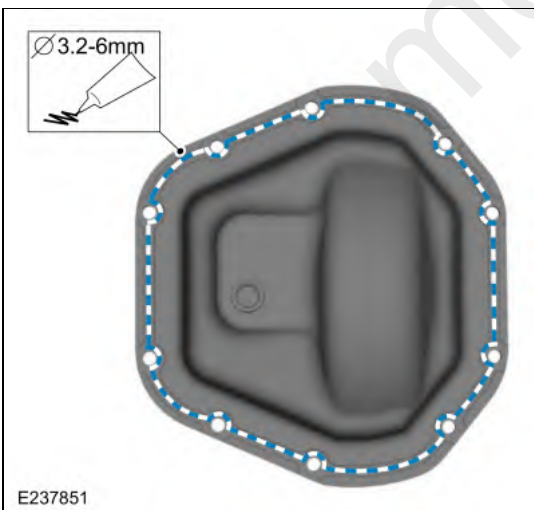
Refer to: Ring Gear Backlash Adjustment (205-03 Front Drive Axle/Differential, General Procedures).

4. Using the general equipment, measure the backlash at 3 equally spaced points.
- The backlash must be within the specifications and cannot vary more than 0.05 mm (0.002 in) between points checked.
 - Make the necessary corrections by moving shims from one side of the differential case to the other, until the correct backlash adjustment is achieved.
 - Correct for low backlash by moving the ring gear away from the pinion.
 - Correct for high backlash by moving the ring gear toward the pinion.
- Use the General Equipment: Dial Indicator



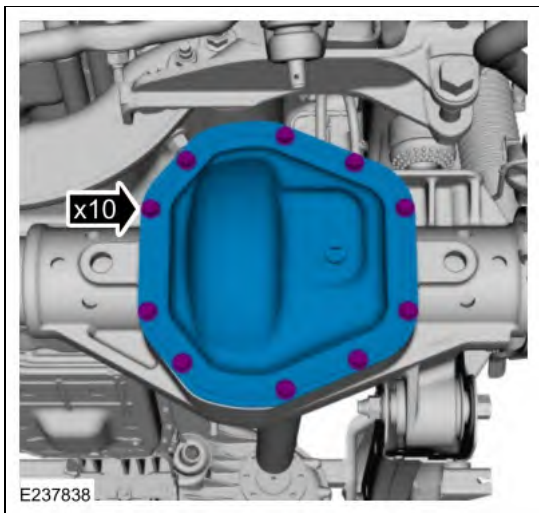
5. Apply a new continuous bead of sealant to the differential housing cover as shown.

Material: Motorcraft® High Performance Engine RTV Silicone / TA-357 (WSE-M4G323-A6)

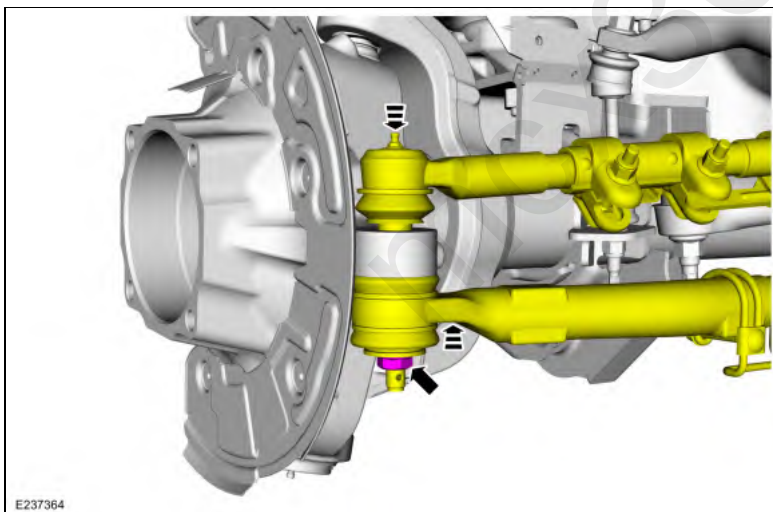


6. Install the differential cover and differential cover bolts.

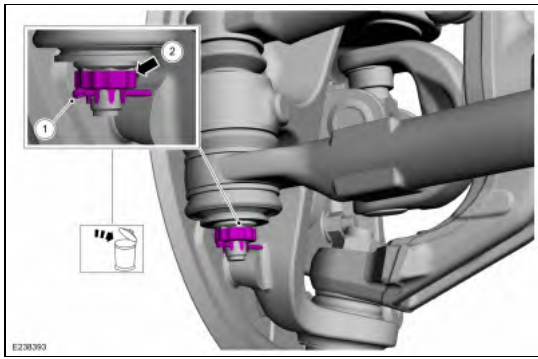
Torque: 45 lb.ft (61 Nm)



7. Attach the RH outer tie rod end and drag link to the wheel knuckle and install the new tie rod end nut.
Torque: 85 lb.ft (115 Nm)



8. Install the RH outer tie-rod end retainer cap and cotter pin.



9. Install the axle shafts and seals.
Refer to: Axle Shaft Seal (205-03 Front Drive Axle/Differential, Removal and Installation).

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