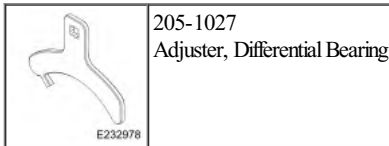


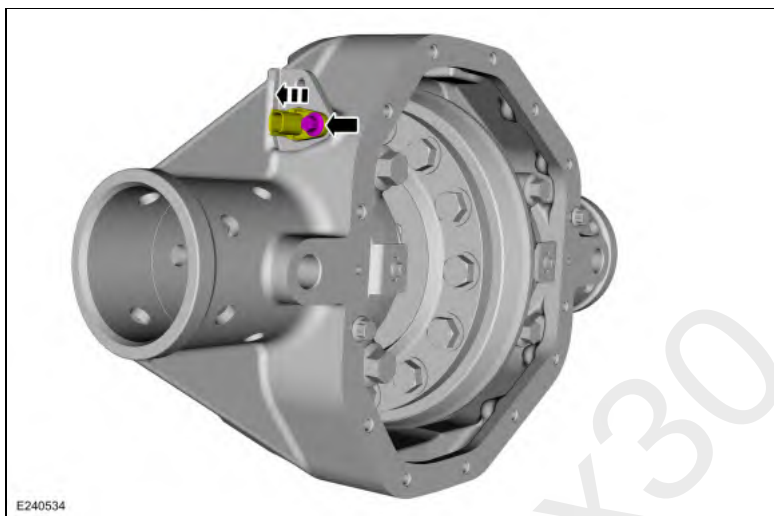
Differential Carrier

Special Tool(s) / General Equipment

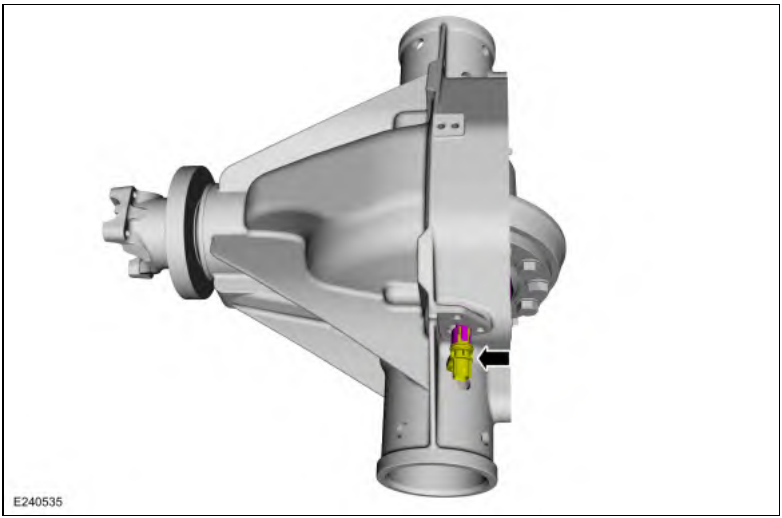


Removal

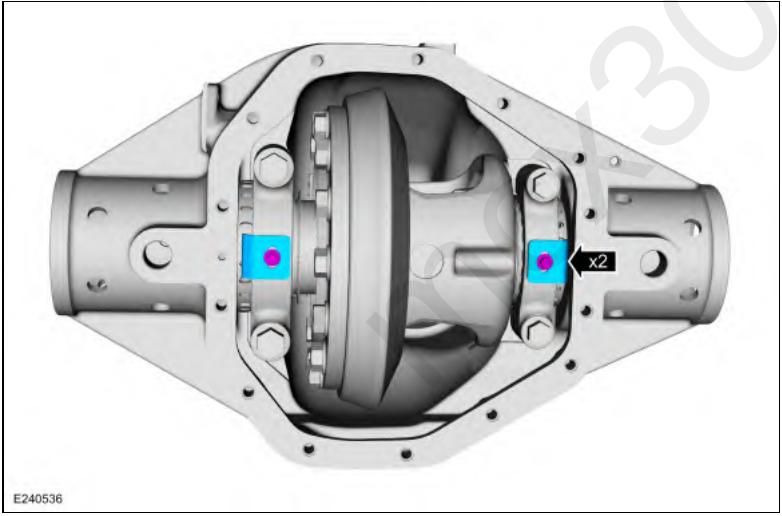
1. Remove the differential housing cover.
Refer to: Differential Housing Cover (205-02A Rear Drive Axle/Differential - Vehicles With: Dana M275, Removal and Installation).
2. Remove the axle shafts.
Refer to: Axle Shaft (205-02C Wheel Hubs and Bearings - Full Floating Axle - Vehicles With: Dana M275/Dana M300, Removal and Installation).
3. If equipped.
Remove the ELD adapter bolt and pull the ELD adapter out of the differential housing.



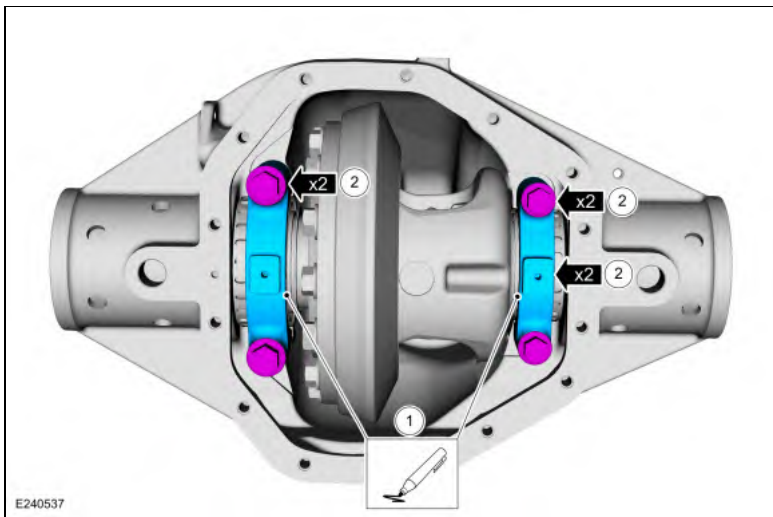
4. If equipped.
Disconnect and remove the ELD adapter.



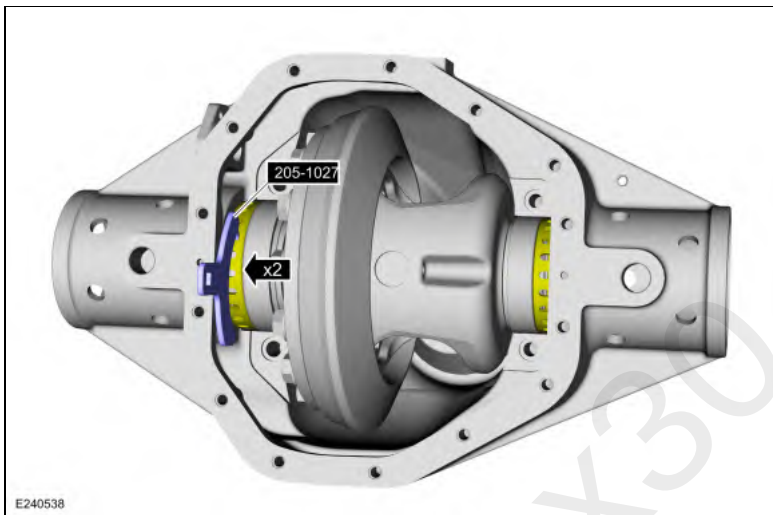
5. Remove the bolts and the differential bearing adjuster locks.



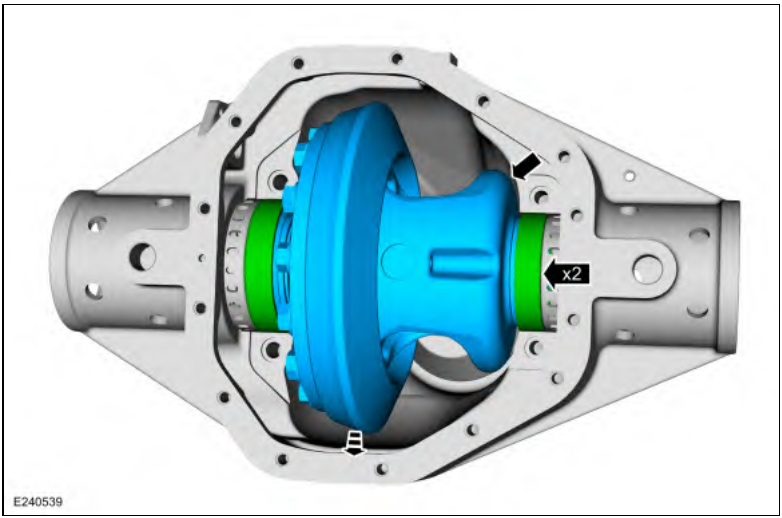
6. **NOTE:** The differential bearing caps and differential bearing cap bolts need to be installed in the same location as removed.
- Mark the differential carrier bearing caps.
 - Remove the bolts and the differential carrier bearing caps.



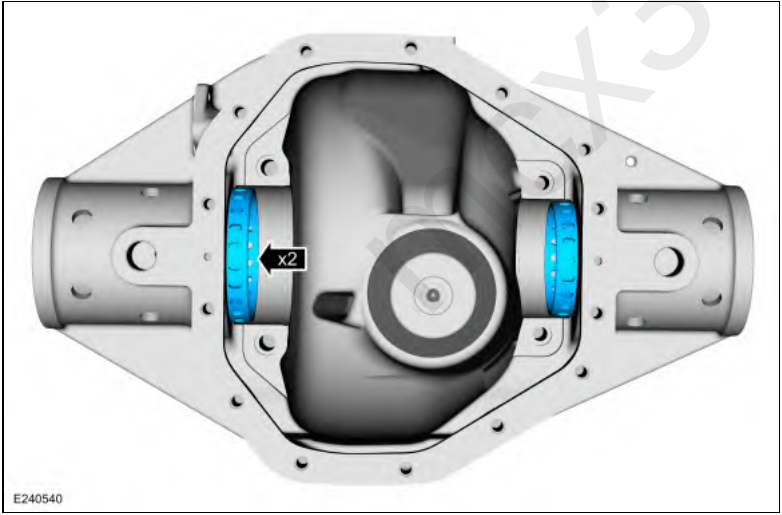
7. Loosen the differential bearing preload adjusters until there is just enough that a slight drag can be felt when pulling the differential carrier out.
Use Special Service Tool: 205-1027 Adjuster, Differential Bearing.



8. Remove the differential carrier and differential carrier bearing cups.

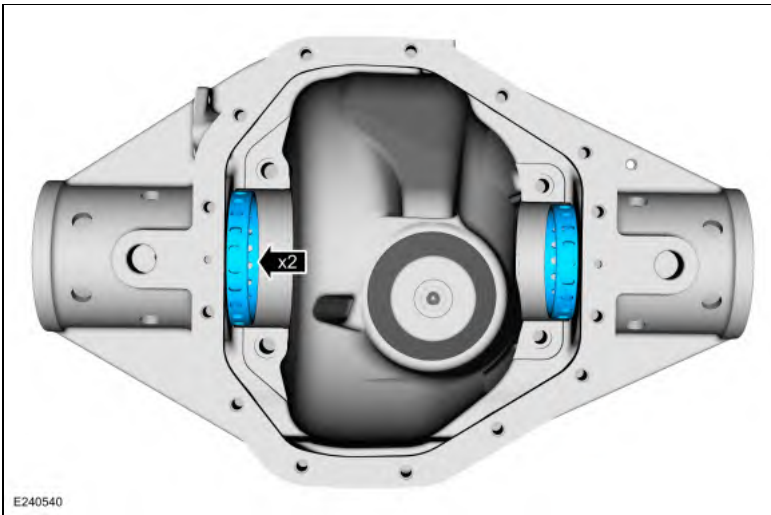


9. If needed.
Remove the differential preload adjusters.

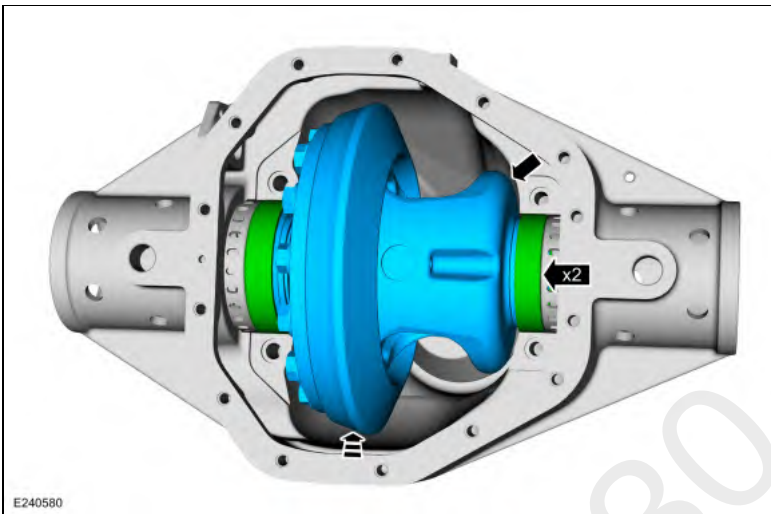


Installation

1. If removed.
Screw in the differential preload adjusters enough to install the differential carrier.



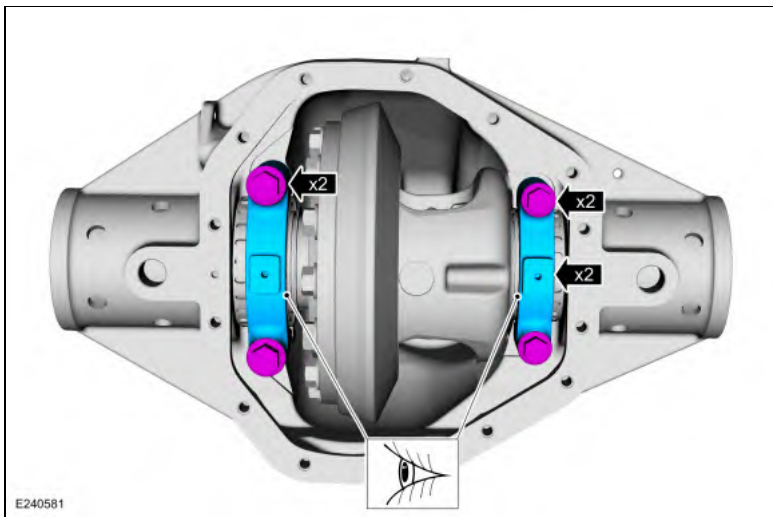
2. Install the differential carrier and differential carrier bearing cups.



3. **NOTE:** The differential bearing caps and differential bearing cap bolts need to be installed in the same location as removed.

NOTE: Only tighten the bolts finger tight at this stage.

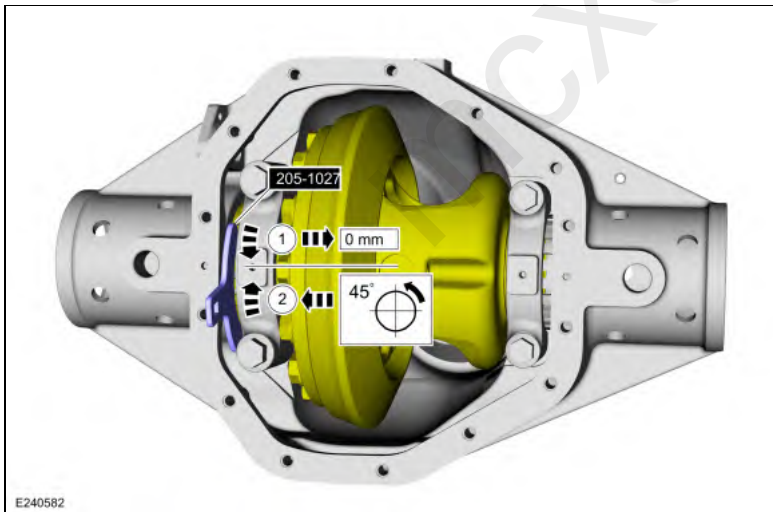
Install the differential bearing caps and differential bearing cap bolts hand tight.



4.

Set ring gear and pinion gear mesh.

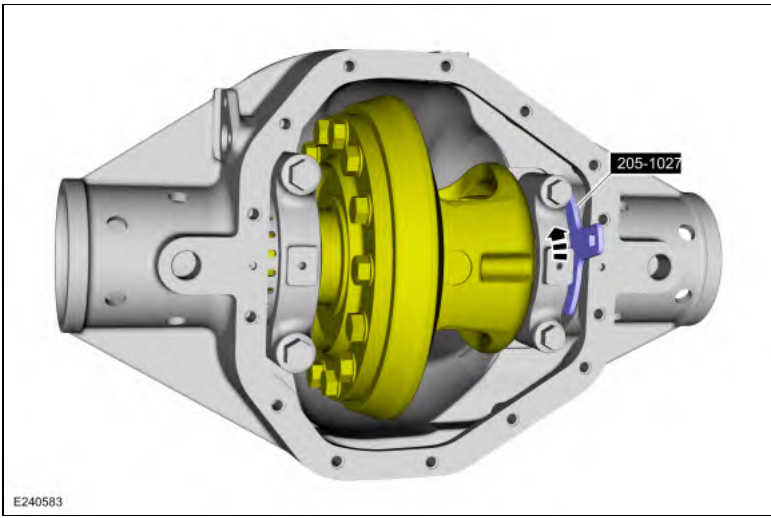
- Tighten the LH differential bearing preload adjuster until there is approximately zero gap between the ring gear and the pinion gear.
Use Special Service Tool: 205-1027 Adjuster, Differential Bearing.
- Back off the LH differential bearing preload adjuster about 45 degrees.



5. Tighten the RH differential bearing preload adjuster until the preload specification is achieved.

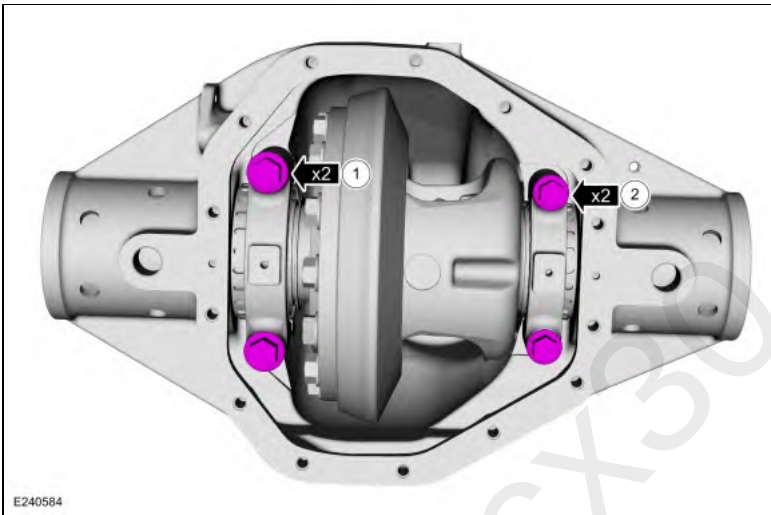
Refer to: Specifications (205-02A Rear Drive Axle/Differential - Vehicles With: Dana M275, Specifications).

Use Special Service Tool: 205-1027 Adjuster, Differential Bearing.

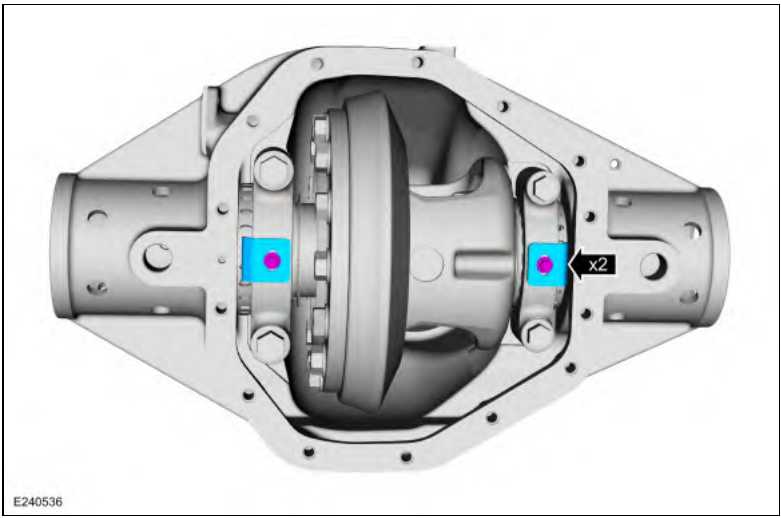


6. **NOTE:** If the backlash needs to be adjusted after the backlash check, the differential carrier bearing cap bolts will need to be loosened.

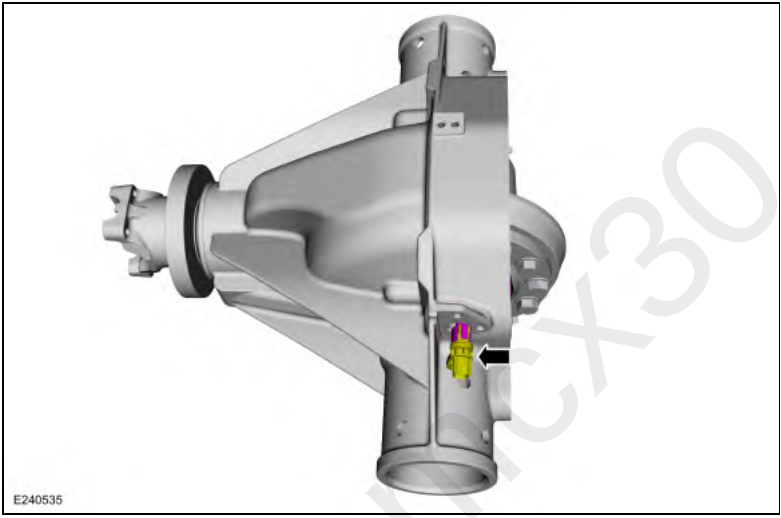
1. Tighten the LH differential bearing cap bolts.
Torque: 201 lb.ft (272 Nm)
2. Tighten the RH differential bearing cap bolts.
Torque: 102 lb.ft (138 Nm)



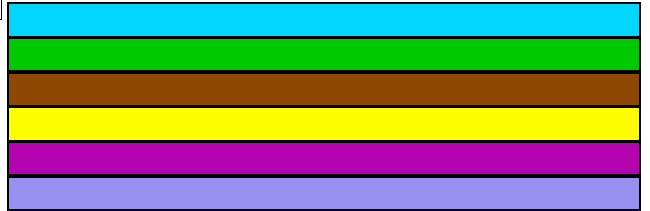
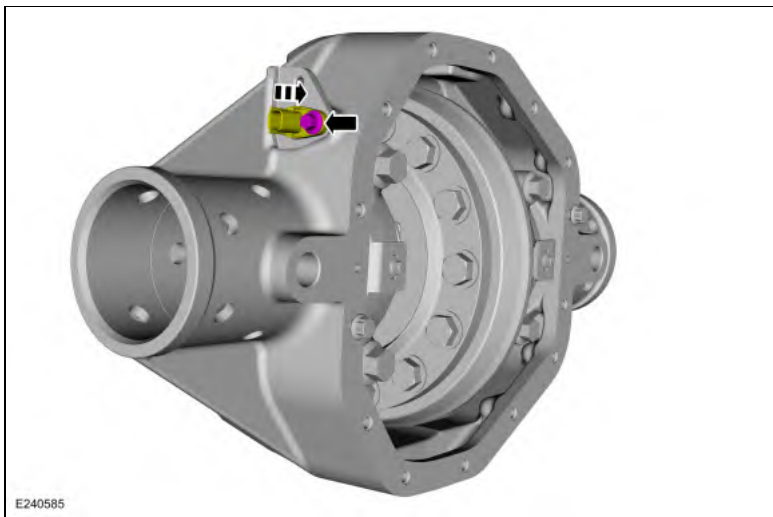
7. Check the ring gear backlash.
Refer to: Ring Gear Backlash Adjustment (205-02A Rear Drive Axle/Differential - Vehicles With: Dana M275, General Procedures).
8. Install the differential bearing adjuster locks and adjuster lock bolts.
Torque: 142 lb.in (16 Nm)



9. If equipped.
Connect the ELD adapter.



10. If equipped.
Install the ELD adaptor into the differential housing and the bolt.
Torque: 115 lb.in (13 Nm)



11. Install the axle shafts.
Refer to: Axle Shaft (205-02C Wheel Hubs and Bearings - Full Floating Axle - Vehicles With: Dana M275/Dana M300, Removal and Installation).
12. Install the differential housing cover.
Refer to: Differential Housing Cover (205-02A Rear Drive Axle/Differential - Vehicles With: Dana M275, Removal and Installation).