

Differential Carrier

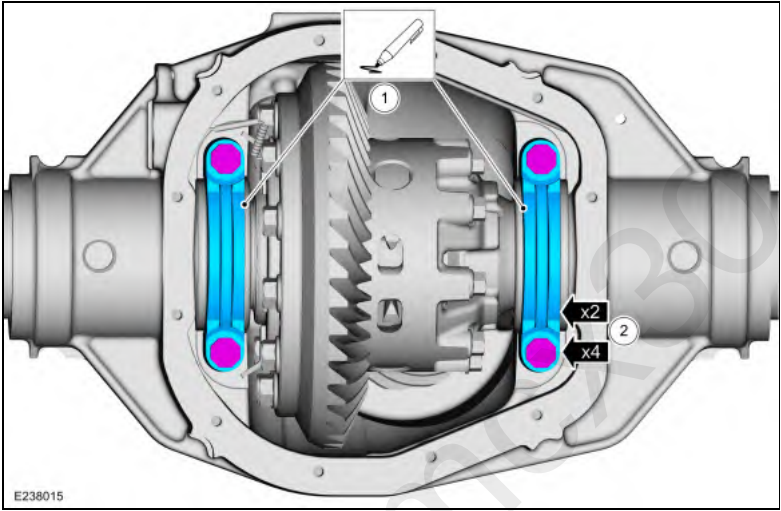
Special Tool(s) / General Equipment

 E234316	205-228 (T85T-4067-AH) Installer, Differential Shim TKIT-1985-FH-1
Wooden Block	
Copper Hammer	

Removal

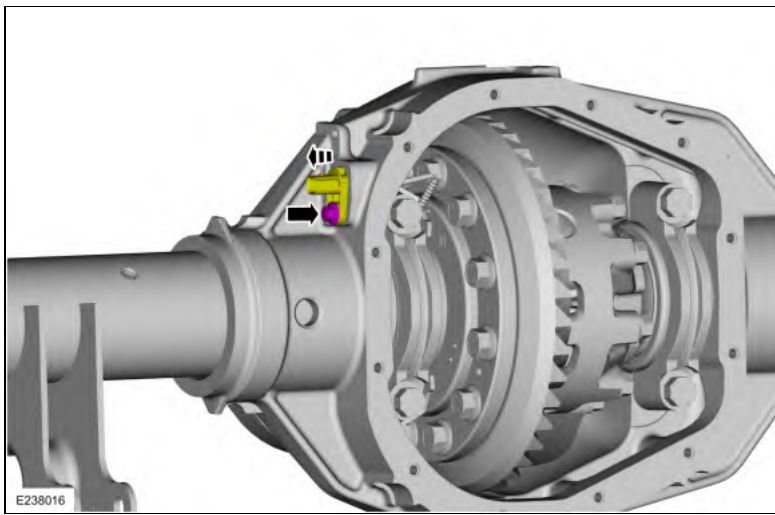
All vehicles

1. Remove the differential housing cover.
Refer to: Differential Housing Cover (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).
2. Remove the axle shafts.
Refer to: Axle Shaft (205-02E Wheel Hubs and Bearings - Full Floating Axle - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).
3. **NOTE:** The differential bearing caps and differential bearing cap bolts need to be installed in the same location as removed.
Remove the differential bearing cap bolts and differential bearing caps.

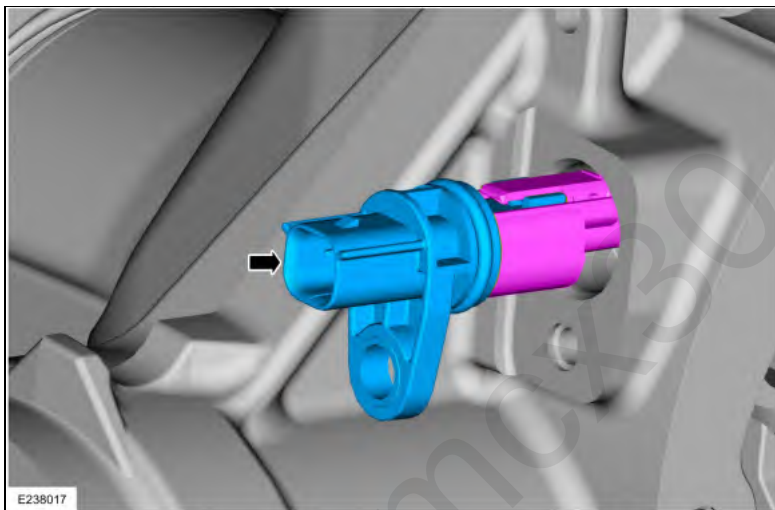


Vehicle equipped with ELD (Electronic Locking Differential)

4. Remove the ELD adaptor bolt and pull the ELD connector adaptor out of the axle assembly housing.

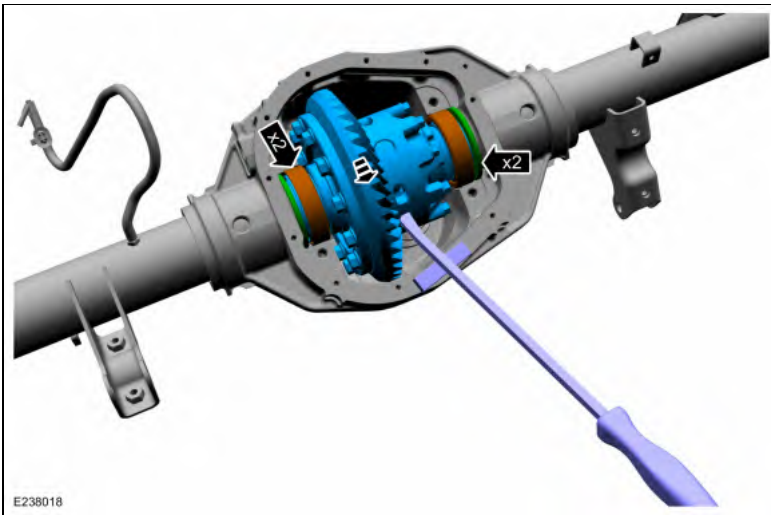
A vertical stack of six horizontal rectangles of equal height, each with a different color. From top to bottom, the colors are cyan, green, brown, yellow, magenta, and light blue. Each rectangle has a thin black border.

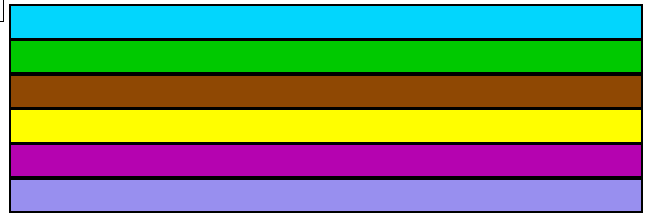
5. Disconnect the ELD coil electrical connector and remove the ELD connector adapter.



All vehicles

6. Using a pry bar and the general equipment, remove the differential carrier, differential carrier bearing cups and the differential shims.
Use the General Equipment: Wooden Block



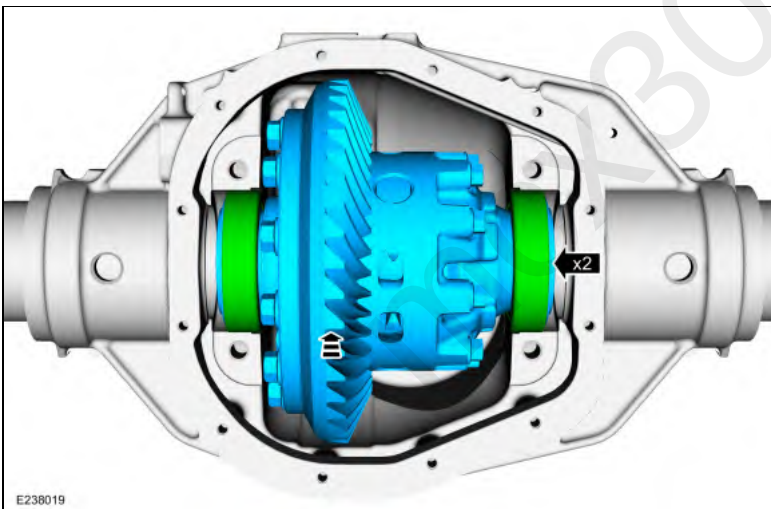


Installation

All vehicles

- NOTE:** Have the selected shims available at this time. It will be required to hold the differential carrier and the differential carrier bearing cups in until shims are installed.

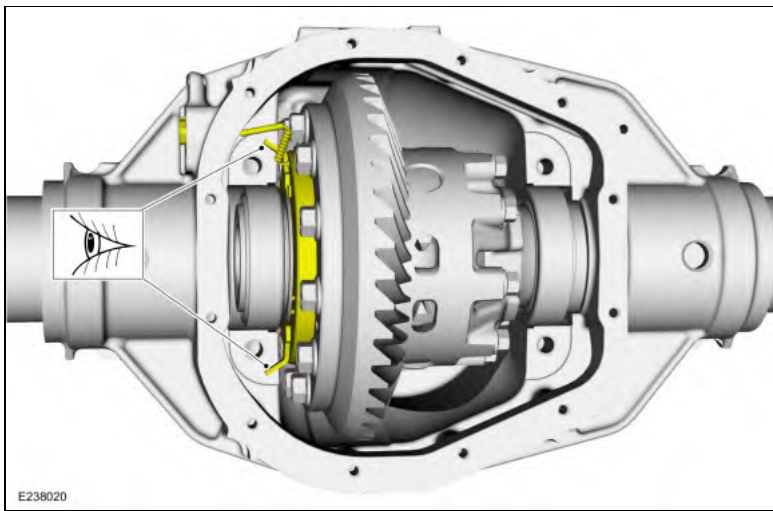
Install the differential carrier and the differential carrier bearing cups.





Vehicle equipped with ELD (Electronic Locking Differential)

- Install the differential carrier with the tabs on the ELD coil up against the differential bearing cap mounting surface.



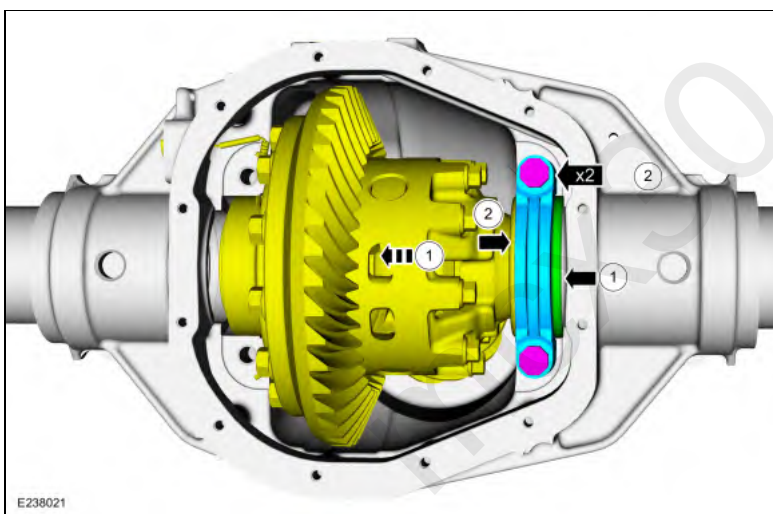
All vehicles

3. **NOTE:** Differential bearing shims are to be installed with the chamfer facing outboard.

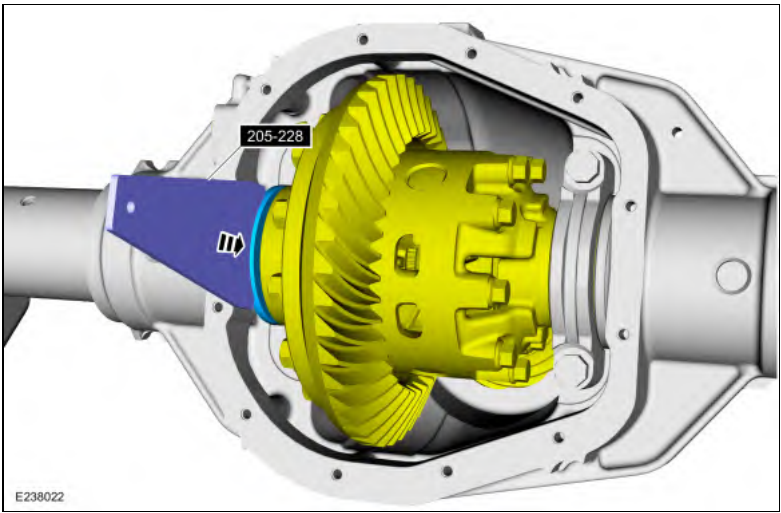
- Position the differential to the LH side of the differential housing and install the RH selected ring gear back lash shim.

- **NOTE:** The differential bearing cap bolts should only be finger tight at this time.

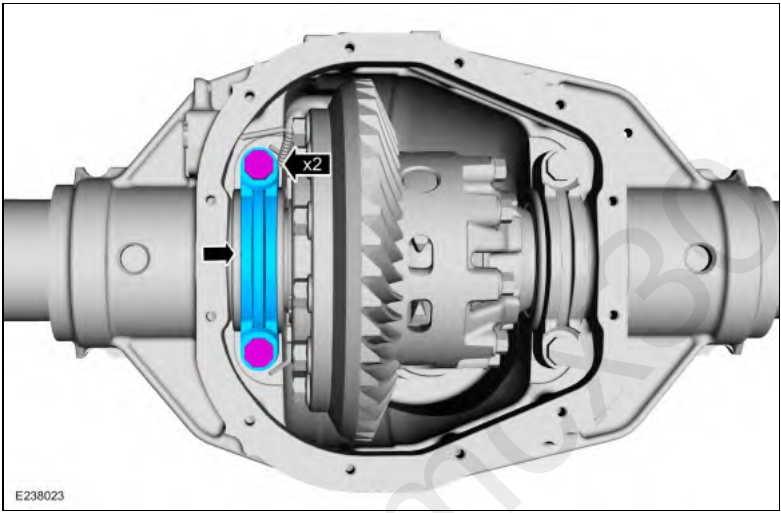
Install the RH differential bearing cap and the differential bearing cap bolts.



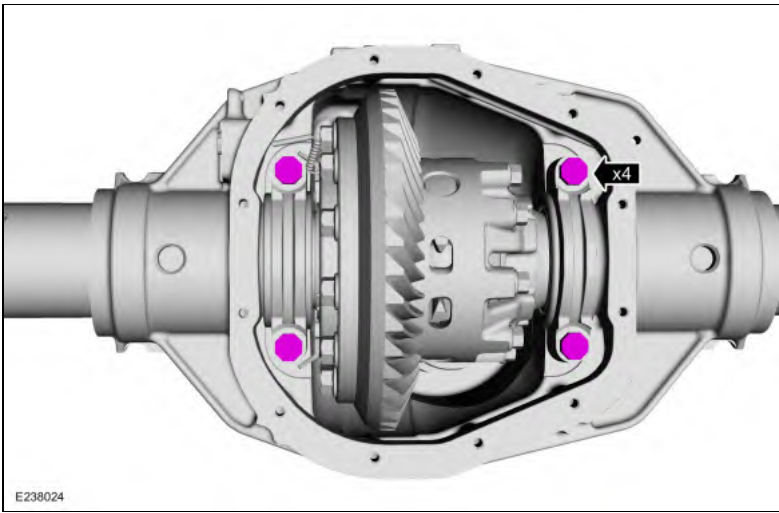
4. Using the special tool and a copper hammer, install the LH selected ring gear back lash shim.
 Use Special Service Tool: 205-228 (T85T-4067-AH) Installer, Differential Shim
 Use the General Equipment: Copper Hammer



5. **NOTE:** The differential bearing cap bolts should only be finger tight at this time.
Install the LH differential bearing cap and the differential bearing cap bolts.



6. Tighten the differential bearing cap bolts.
Torque: 87 lb.ft (118 Nm)

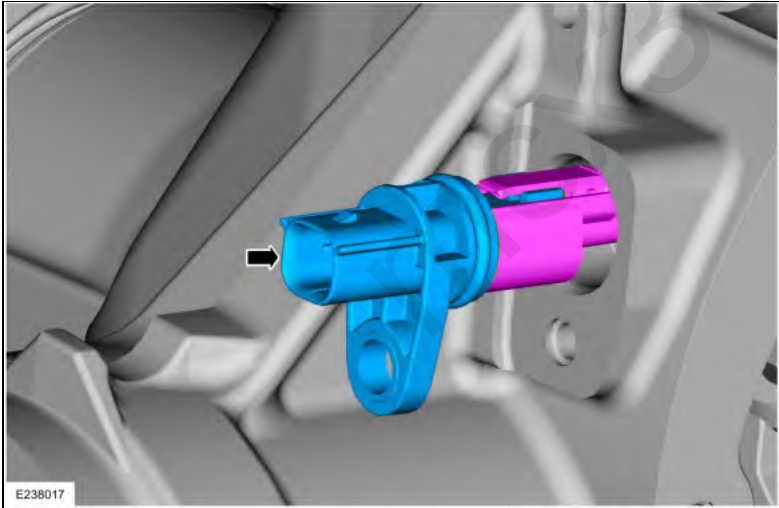


All vehicles

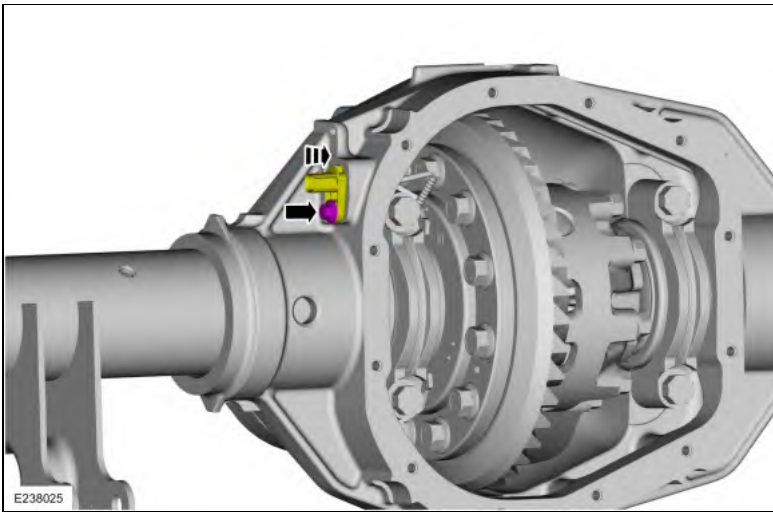
7. Check the ring gear backlash.
Refer to: Ring Gear Backlash Adjustment (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, General Procedures).

Vehicle equipped with ELD (Electronic Locking Differential)

8. Connect the ELD coil electrical connector to the ELD connector adaptor.



9. Install the ELD connector adaptor into the axle assembly housing, install the ELD connector adaptor bolt .
Torque: 62 lb.in (7 Nm)



All vehicles

- 10. Install the axle shafts.
Refer to: Axle Shaft (205-02E Wheel Hubs and Bearings - Full Floating Axle - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).
- 11. Install the differential housing cover.
Refer to: Differential Housing Cover (205-02D Rear Drive Axle/Differential - Vehicles With: Ford 10.5 Inch Ring Gear, Removal and Installation).

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