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## 2007 FORD Escape OEM Service and Repair Workshop Manual

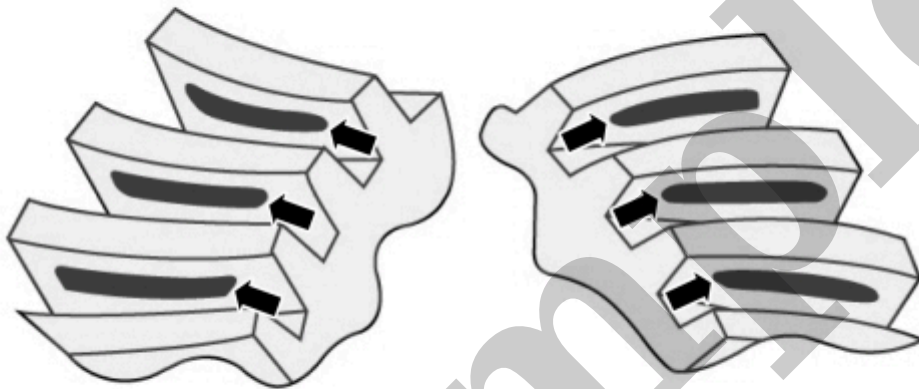
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## Contact Pattern

In general, desirable ring gear tooth patterns must have the following characteristics:

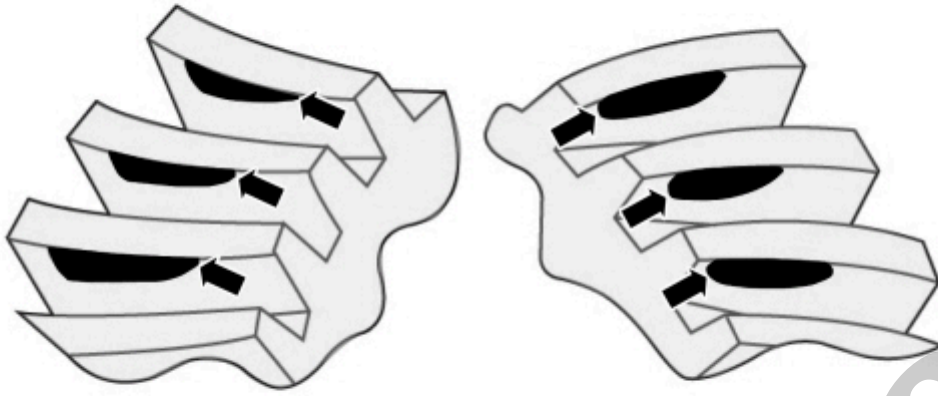
- Drive pattern on the drive side ring gear well centered on the tooth. There should be some clearance between the pattern and the top of the tooth.
- Coast pattern on the coast side ring gear well centered on the tooth, but may be slightly toward the toe. There should be some clearance between the pattern and the top of the tooth.

Acceptable ring gear tooth patterns for all axles.



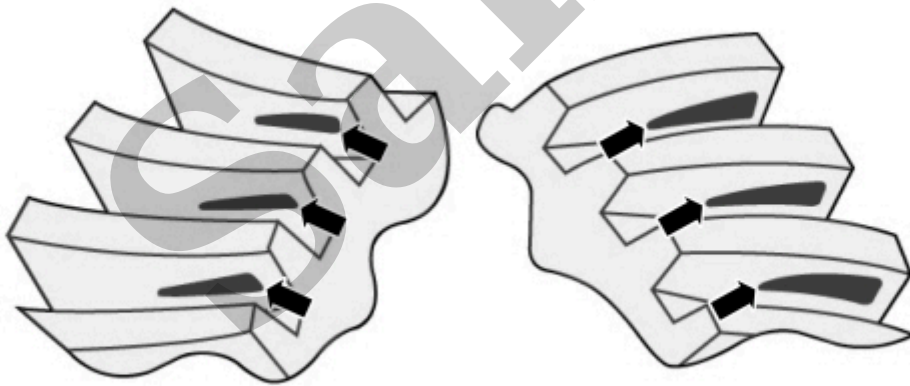
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Correct backlash with a thicker pinion position shim required.



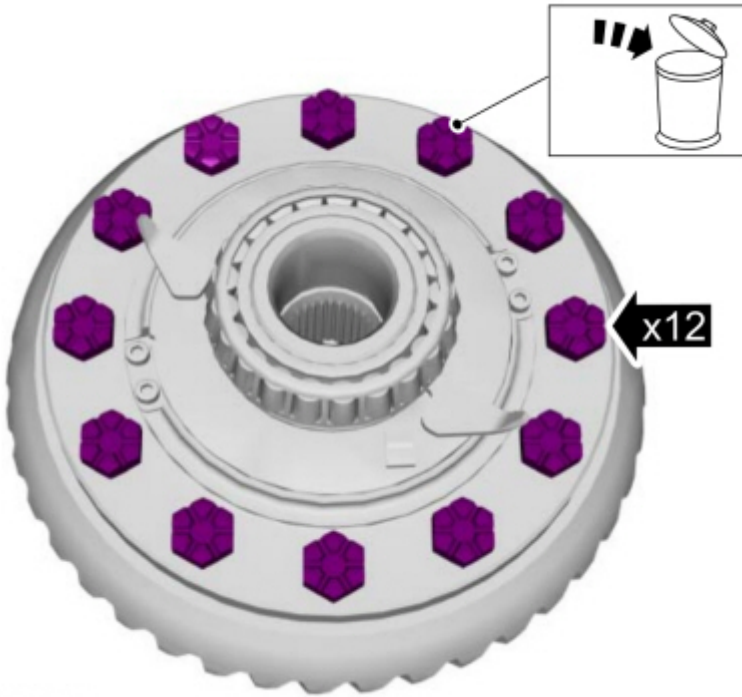
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Pinion position correct. Increase backlash.



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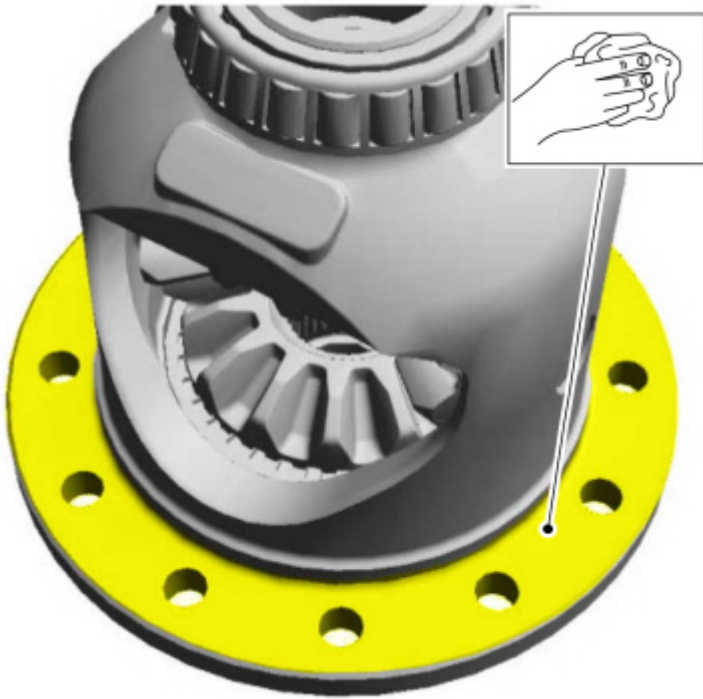
### 3. NOTICE

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



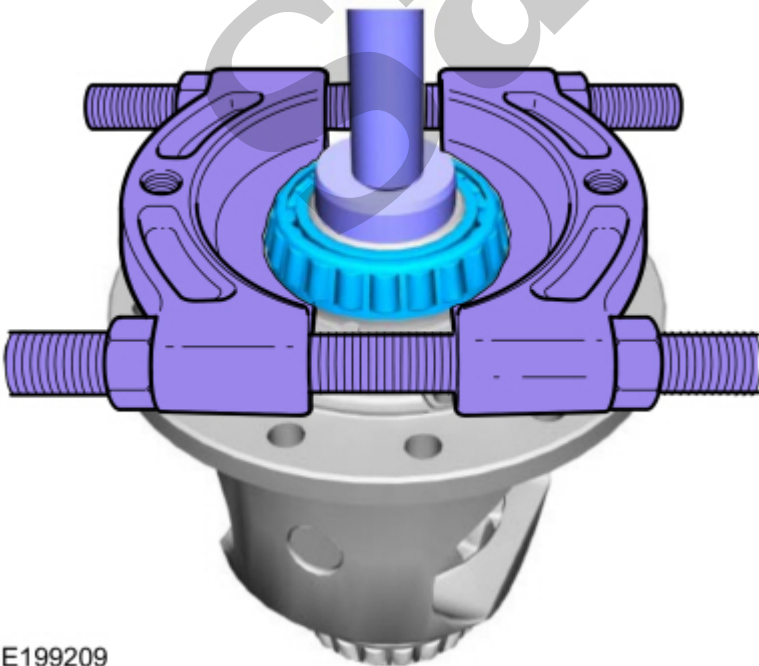
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5. Using the special tools, remove the LH (left-hand) differential bearing.

**Use Special Service Tool** : 205-D064 (D84L-1123-A) Puller, Bearing , 205-D061 (D83T-4205-C2) Step Plate

Use the General Equipment: Puller

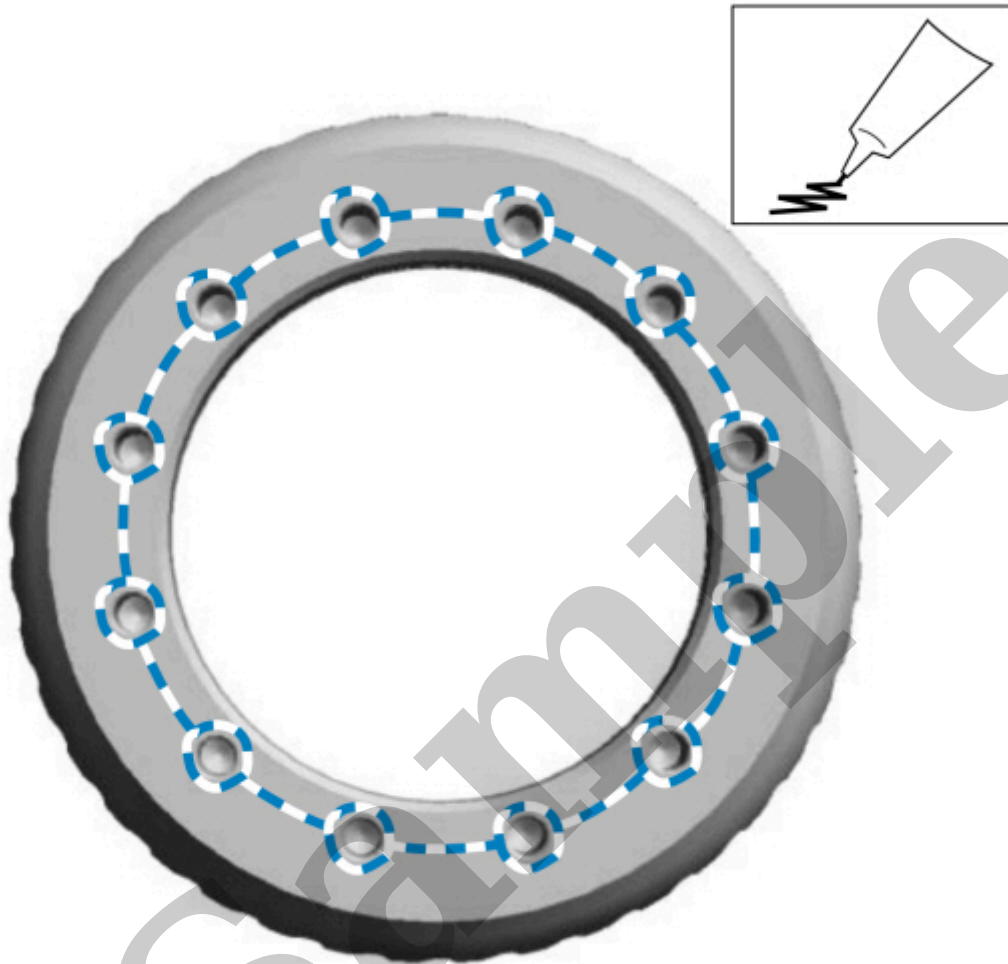


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2. Apply a one-eighth inch bead of maximum strength retaining compound on the rear face of the ring gear in the pattern shown.

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



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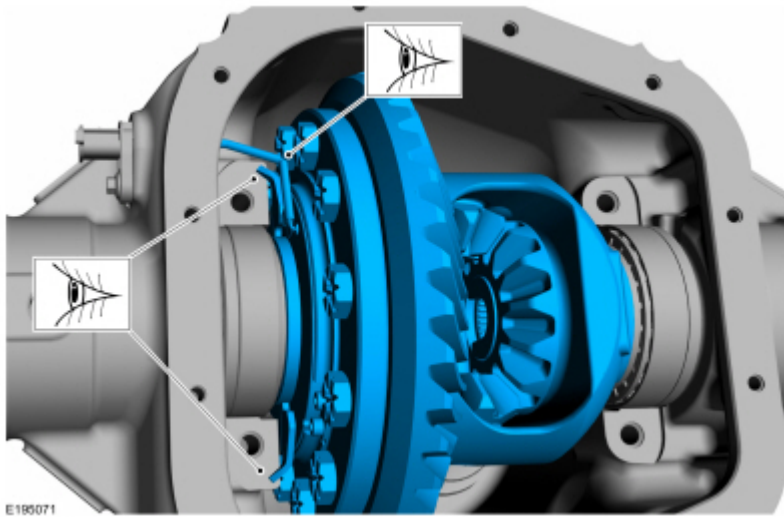
3. **NOTE**

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)

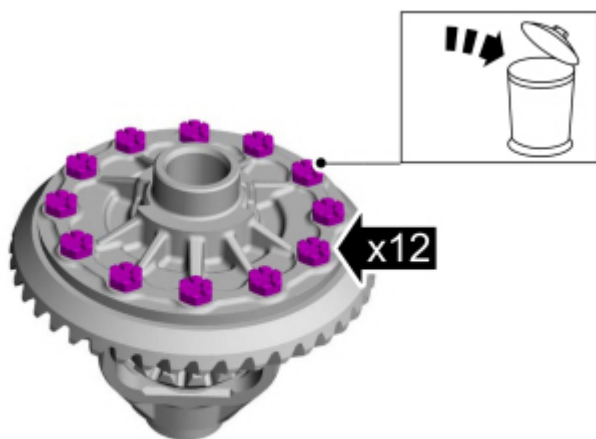


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Sample

3. Remove and discard the ring gear bolts.



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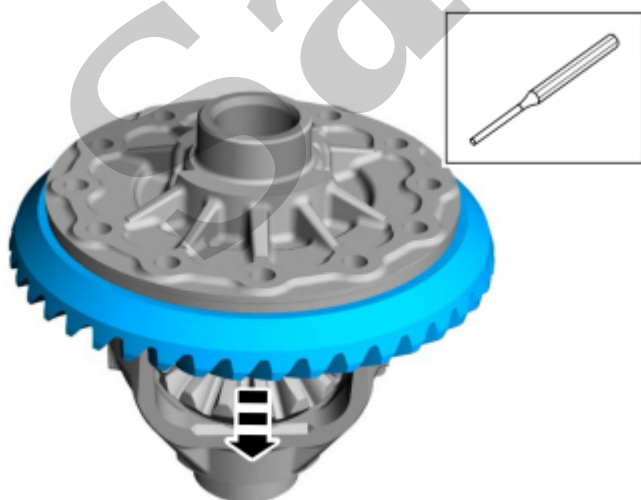
#### 4. NOTICE

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

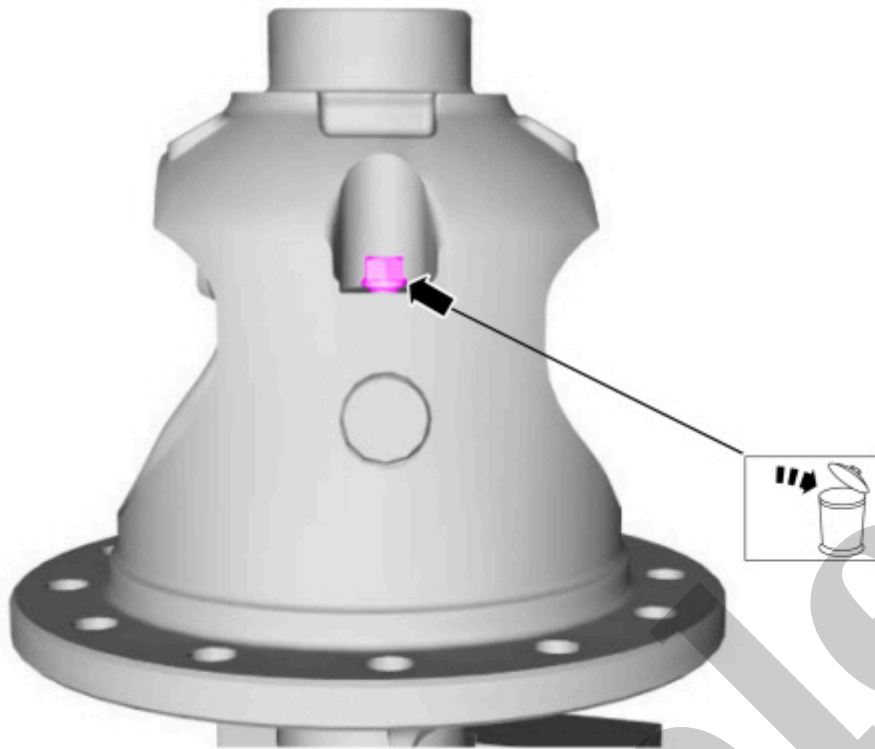


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#### 5. NOTICE

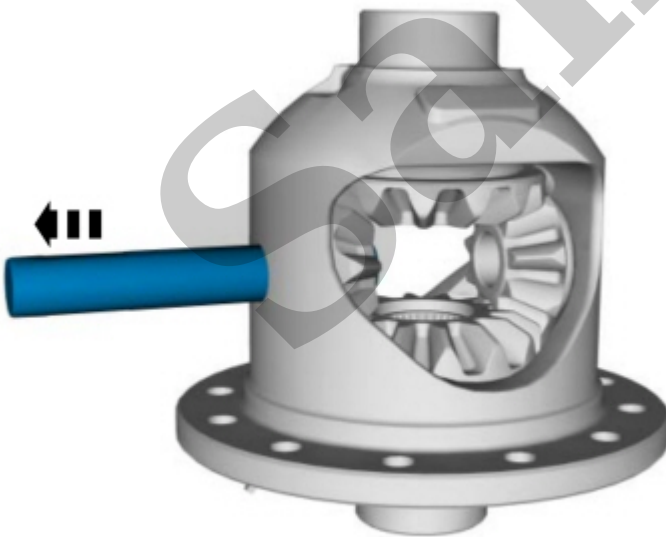




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7. Remove the differential pinion shaft.



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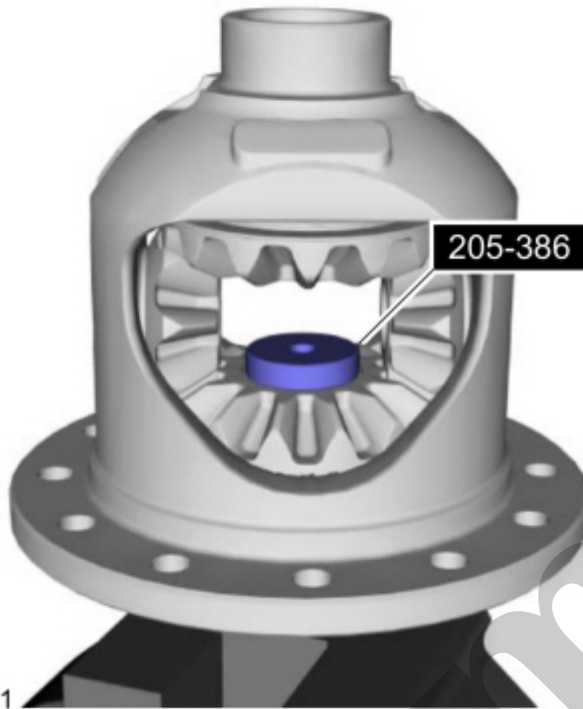
8. Install the Differential Gauge in a suitable vise.

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

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

- 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)



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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)