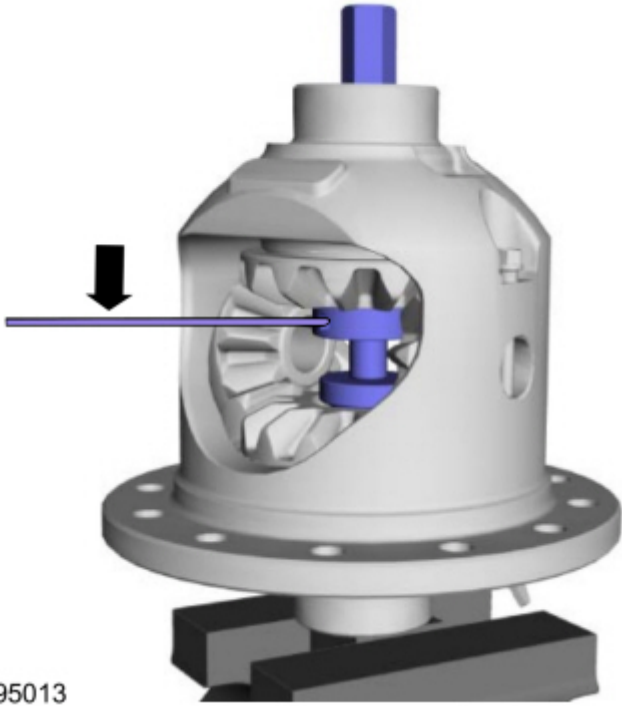


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## 2011 FORD Escape OEM Service and Repair Workshop Manual

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E195013

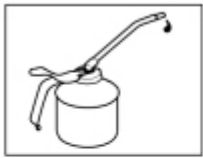
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13. Rotate and remove the differential pinion gears and differential pinion gear thrust washers. Remove the Differential Gauges.



E195041

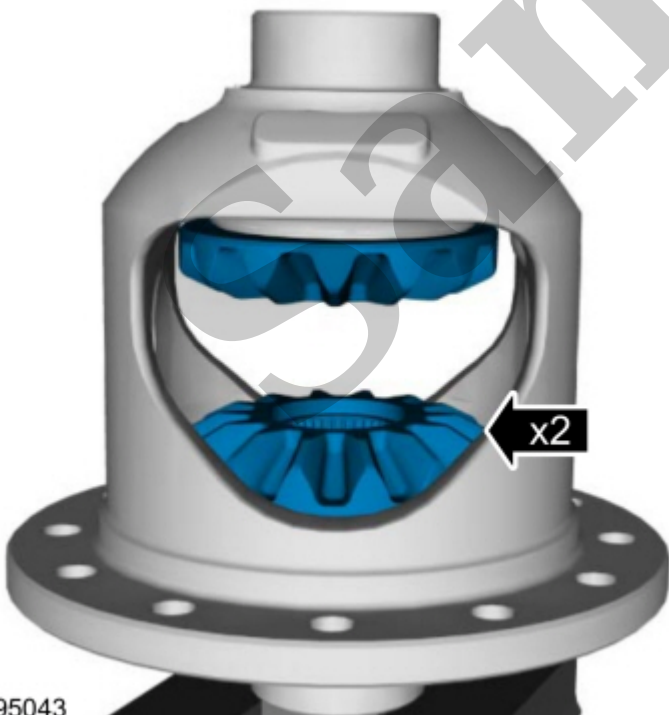
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2. Position the differential side gears.



E195043

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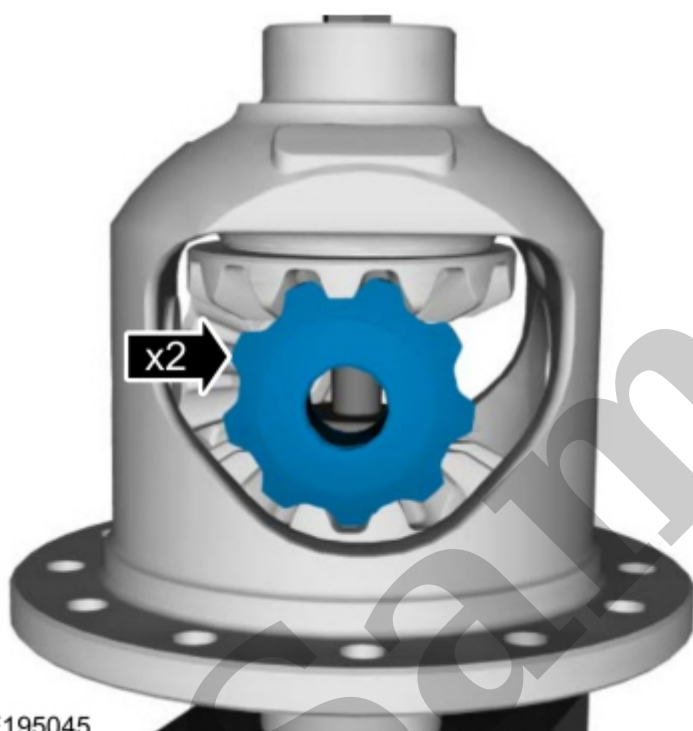
Make sure the differential pinion gears are 180 degrees apart so they will align correctly with the pinion shaft bore.

- Lubricate both sides of the differential pinion gear thrust washers with axle lubricant.

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

- 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.

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



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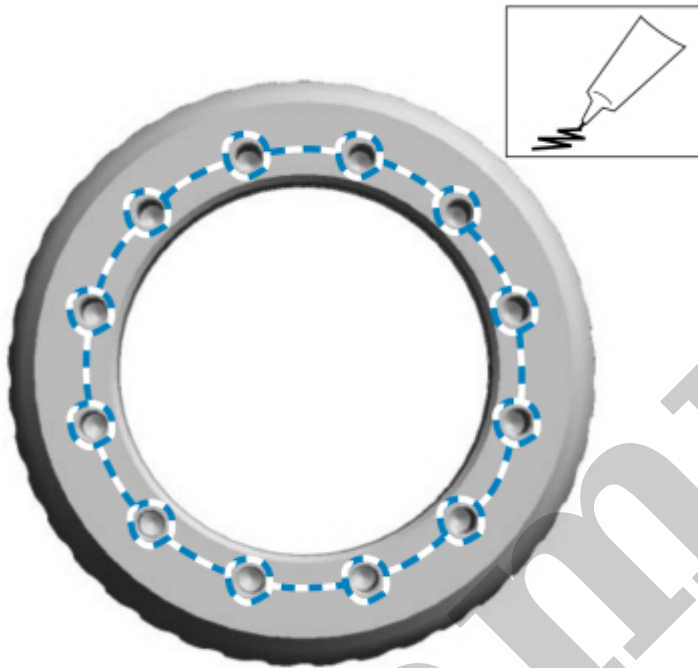
5. Rotate the differential pinion gears to align the differential pinion shaft bore. Remove the Differential Gauges after verifying the differential pinion shaft bore alignment.

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

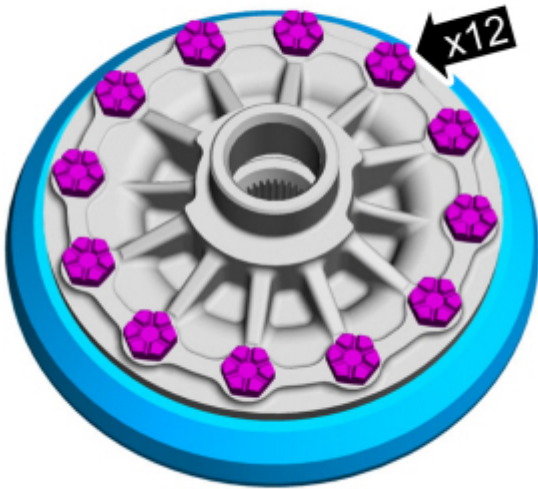


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8. Install the ring gear onto the differential carrier. Align the ring gear using 3 new bolts. Using the general equipment: press the ring gear into place.

Use the General Equipment: Hydraulic Press

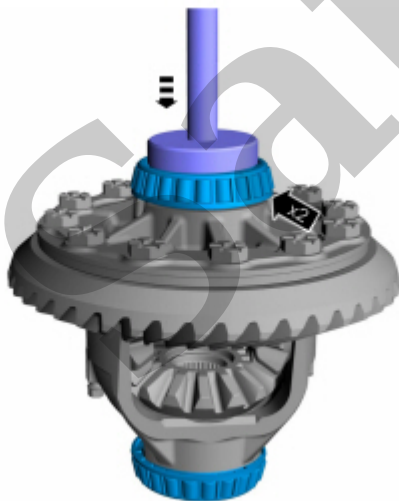


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10. Using the general equipment, install the new differential bearings.

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



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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).



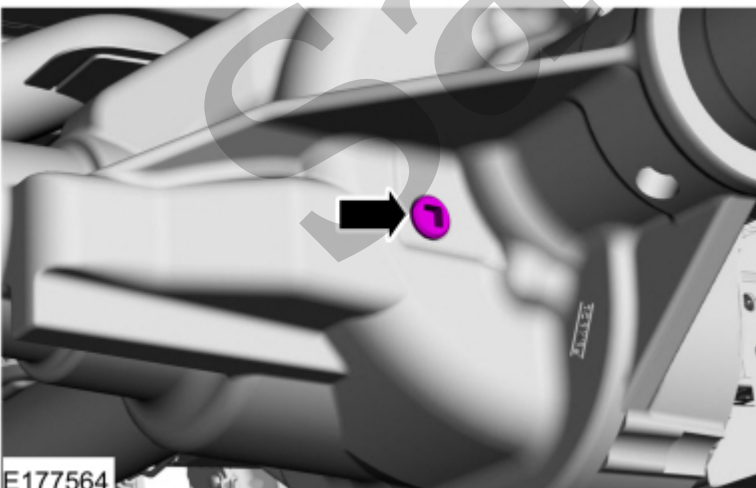
## Differential Fluid Level Check - Raptor

<b>205-02B Rear Drive Axle/Differential - Vehicles With: Ford 9.75 Inch Ring Gear</b>	<b>2022 F-150</b>
<b>General Procedures</b>	<b>Procedure revision date: 08/6/2021</b>

### Differential Fluid Level Check - Raptor

#### Check

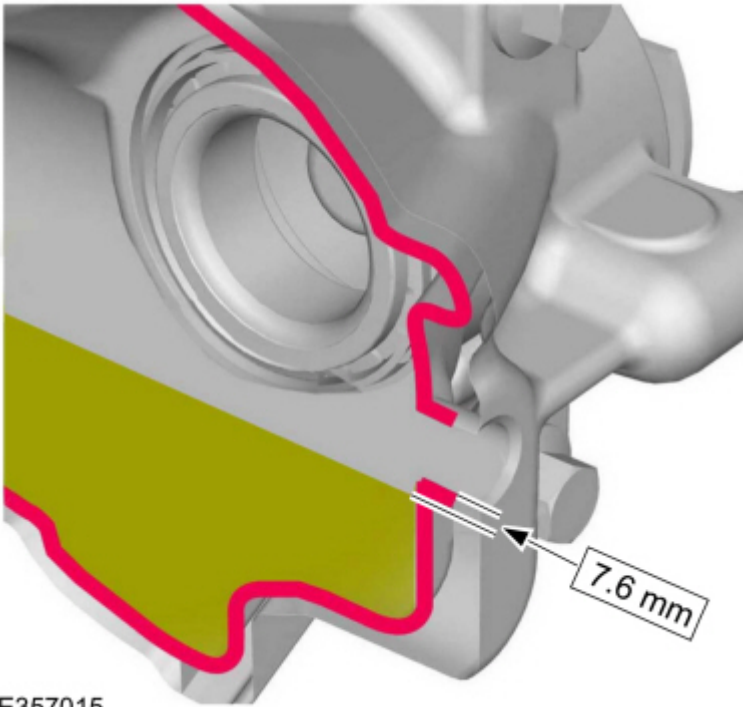
1. With the vehicle in NEUTRAL, position it on a hoist.  
Refer to: [Jacking and Lifting - Overview](#)(100-02 Jacking and Lifting, Description and Operation).
2. Remove the differential fluid fill plug.



[Click here to learn about symbols, color coding, and icons used in this manual.](#)

3. If draining is needed.

Using a general equipment, remove as much fluid as possible from the RDU (rear drive unit) .

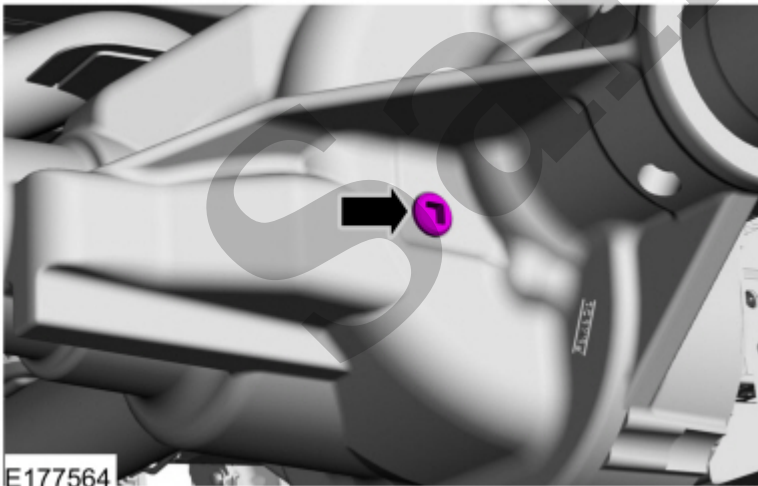


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6. Install the differential fluid fill plug.

**Torque** : 38 lb.ft (51 Nm)

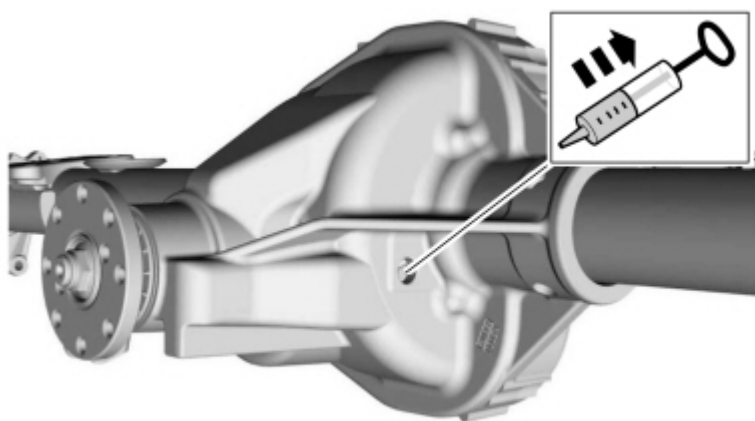


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Use the General Equipment: Fluid Suction Gun



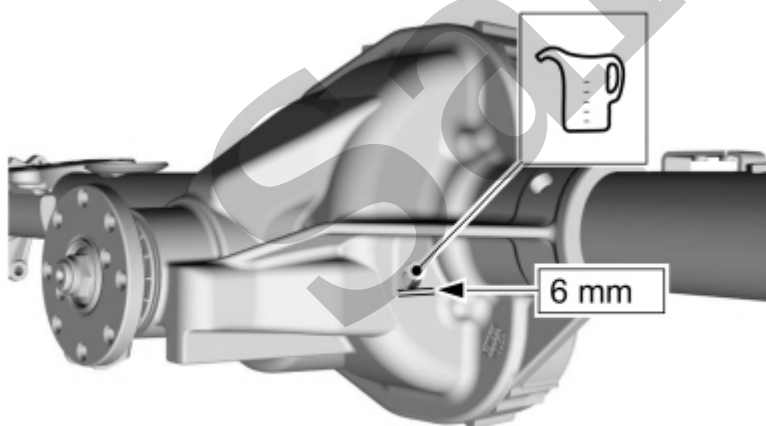
E298502

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4. Check and top off the differential with clean differential gear lubricant. The differential gear lubricant level should be within 6mm (1/4 in.) from the fluid level fill plug opening.

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

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



E197913

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5. Install the differential fluid fill plug.

**Torque** : 38 lb.ft (51 Nm)

## Ring Gear Backlash Adjustment

<b>205-02B Rear Drive Axle/Differential - Vehicles With: Ford 9.75 Inch Ring Gear</b>	<b>2022 F-150</b>
<b>General Procedures</b>	<b>Procedure revision date: 11/4/2020</b>

### Ring Gear Backlash Adjustment

#### Adjustment

##### All vehicles

1. Remove the differential housing cover.

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

2. Install the dial indicator gauge with holding fixture, with the dial indicator at a 90 degree angle from the ring gear tooth.

Use the General Equipment: Dial Indicator