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2018 FORD Ranger Double Cab OEM Service and Repair Workshop Manual

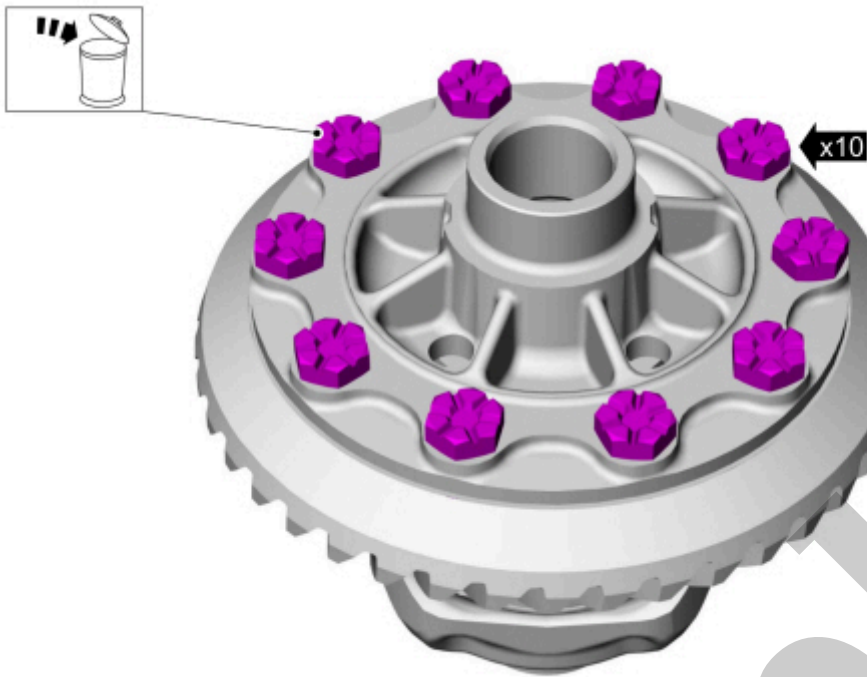
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Sample

3. Remove and discard the ring gear bolts.



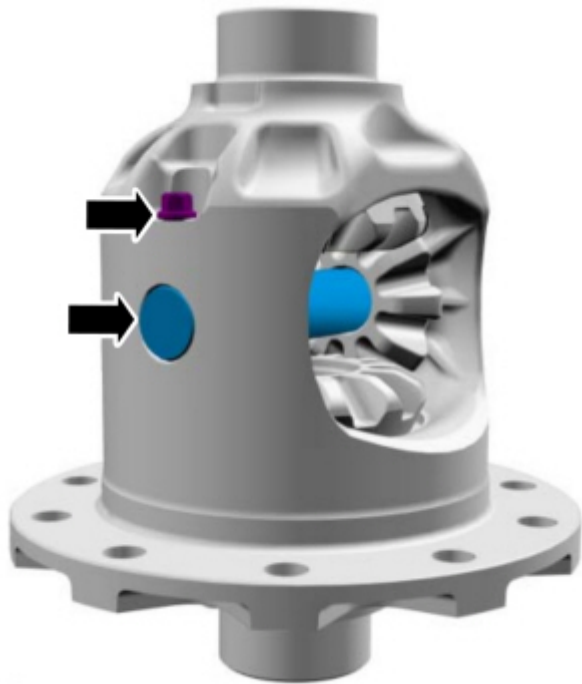
E188074

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4. Using the brass punch and a soft face hammer, remove the ring gear.

Use the General Equipment: Punch

Use the General Equipment: Copper Hammer

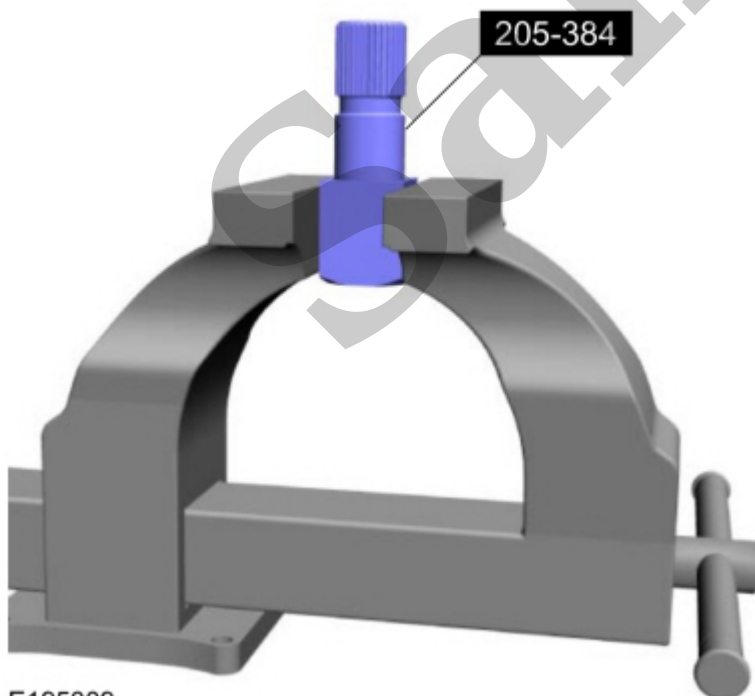


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7. Install the Differential Gauge in a suitable vise.

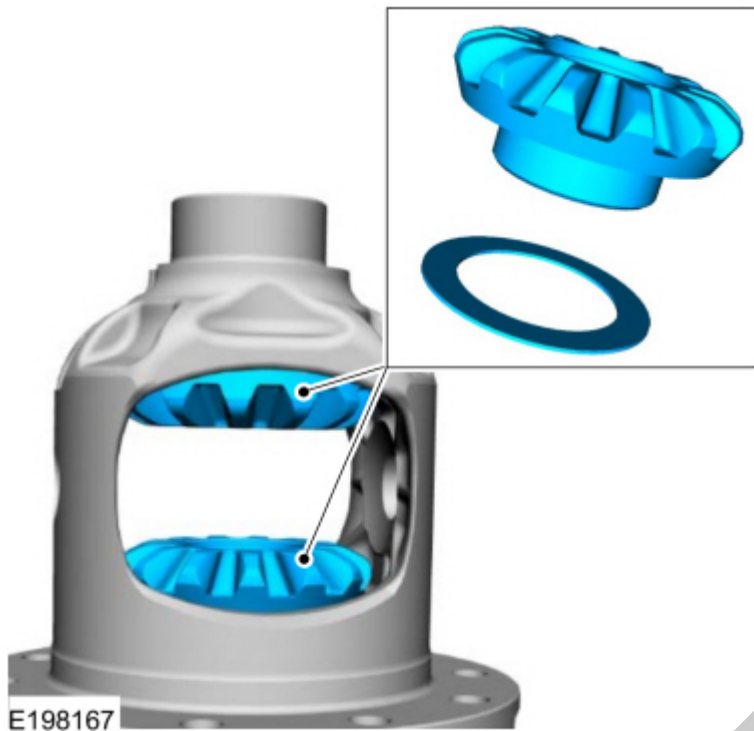
Use Special Service Tool : 205-384 (T97T-4205-A) Gauge, Differential (Traction Lock)



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10. Remove the differential side gears and the differential side gear thrust washers.



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ASSEMBLY

1. NOTE

Lubricate the differential side gear thrust washers and the side gear journals with axle lubricant.

Position the differential side gear thrust washers on the differential side gears.

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

NOTE

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

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.

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



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4. Rotate the differential pinion gears to align the differential pinion shaft bore.

6. **NOTE**

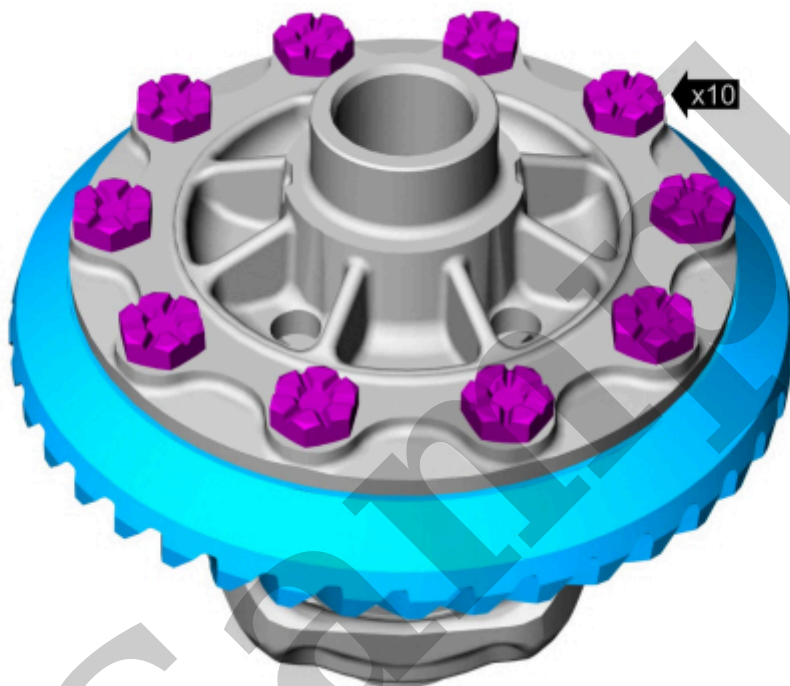
Tighten the ring gear bolts in a cross pattern.

Install the ring gear and the new ring gear bolts.

Torque :

Stage 1: 44 lb.ft (60 Nm)

Stage 2: 90°



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

Use Special Service Tool : 205-1016 Installer, Differential Bearing , 205-153 (T80T-4000-W) Handle



Differential Fluid Level Check

205-02A Rear Drive Axle/Differential - Vehicles With: Ford 8.8 Inch Ring Gear	2022 F-150
General Procedures	Procedure revision date: 12/16/2021

Differential Fluid Level Check

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).

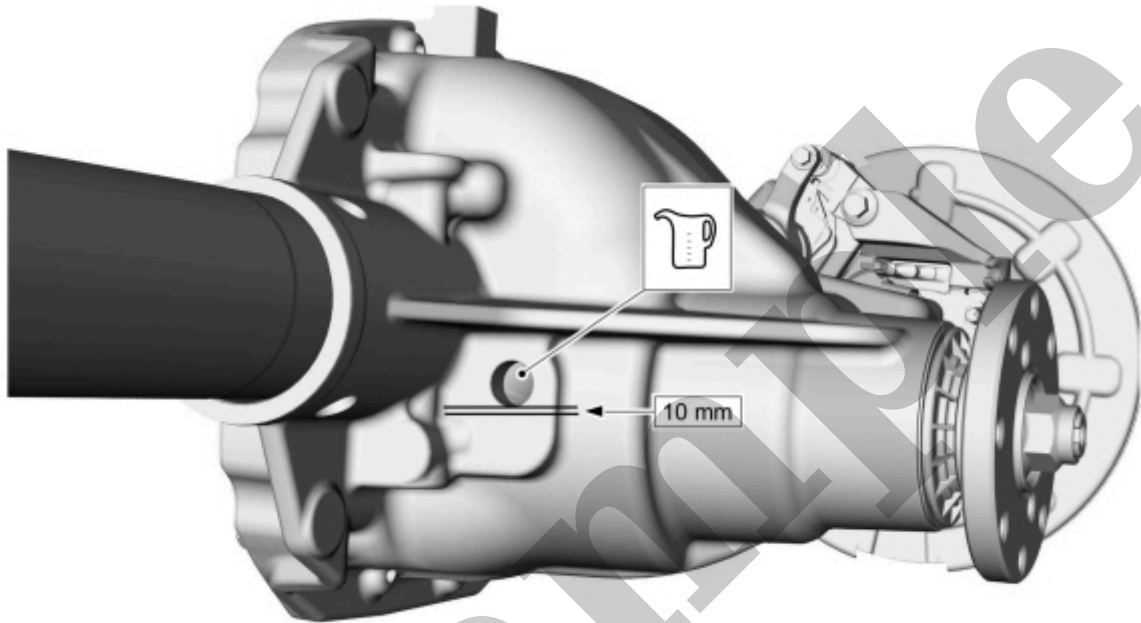
2. Remove the differential fluid fill plug.

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

4. Check and top off the differential with clean differential gear lubricant. The differential gear lubricant level should be within 10 mm (0.0394 in.) from the fluid level fill plug opening.

Refer to: [Specifications](#)(205-02A Rear Drive Axle/Differential - Vehicles With: Ford 8.8 Inch Ring Gear, Specifications).

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



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5. Install the differential fluid fill plug.

Torque : 38 lb.ft (51 Nm)



Ring Gear Backlash Adjustment

205-02A Rear Drive Axle/Differential - Vehicles With: Ford 8.8 Inch Ring Gear	2022 F-150
General Procedures	Procedure revision date: 11/4/2020

Ring Gear Backlash Adjustment

Adjustment

1. Remove the differential housing cover.

Refer to: [Differential Housing Cover](#)(205-02A Rear Drive Axle/Differential - Vehicles With: Ford 8.8 Inch Ring Gear, Removal and Installation).
2. Install the dial indicator gauge with holding fixture, with the dial indicator at around 90 degree angle from the ring gear tooth.

Use the General Equipment: Dial Indicator