REMOVAL AND INSTALLATION

Front Driveshaft — 4WD

Removal

CAUTIONS:

Always disconnect the front driveshaft from the transfer case first. Otherwise, the weight of the driveshaft can pinch the boot between the driveshaft and the constant velocity (CV) joint flange which can cause the boot to tear.

It is possible to fit the driveshaft incorrectly. Note the orientation before removal.

NOTE: A small amount of oil may weep from the driveshaft joints during storage. The loss of this oil will not affect the operation or durability of the joint.

NOTE: Removal steps in this procedure may contain installation details.

1. **WARNING: Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.**

   Refer to: Lifting (100-02 Jacking and Lifting, Description and Operation).

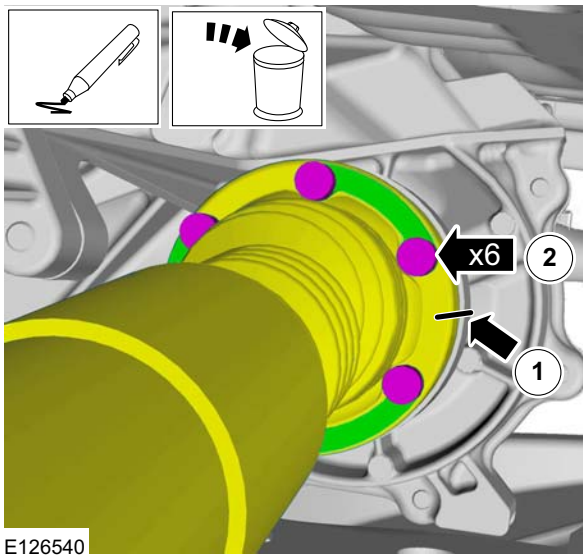
2. **CAUTIONS:**

   To avoid damage to the joint or gaiter, do not allow the driveshaft to hang.

   Do not reuse the bolts, install new bolts or damage to the vehicle may occur.

NOTE: Lock the driveshaft before removing the bolts to avoid slipping.

Torque: 15 Nm



3. **CAUTIONS:**

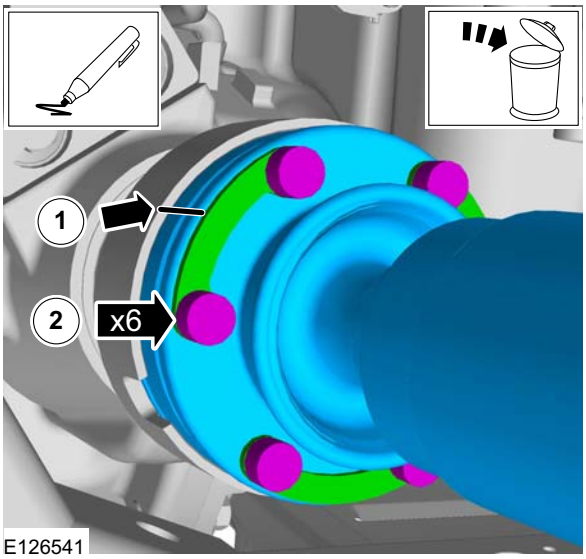
   To avoid damage to the joint or gaiter, do not allow the driveshaft to hang.

   Do not reuse the bolts, install new bolts or damage to the vehicle may occur.

REMOVAL AND INSTALLATION

NOTE: Lock the driveshaft before removing the bolts to avoid slipping.

Torque: 15 Nm



Installation

1. To install, reverse the removal procedure.

SECTION 205-02 Rear Drive Axle/Differential

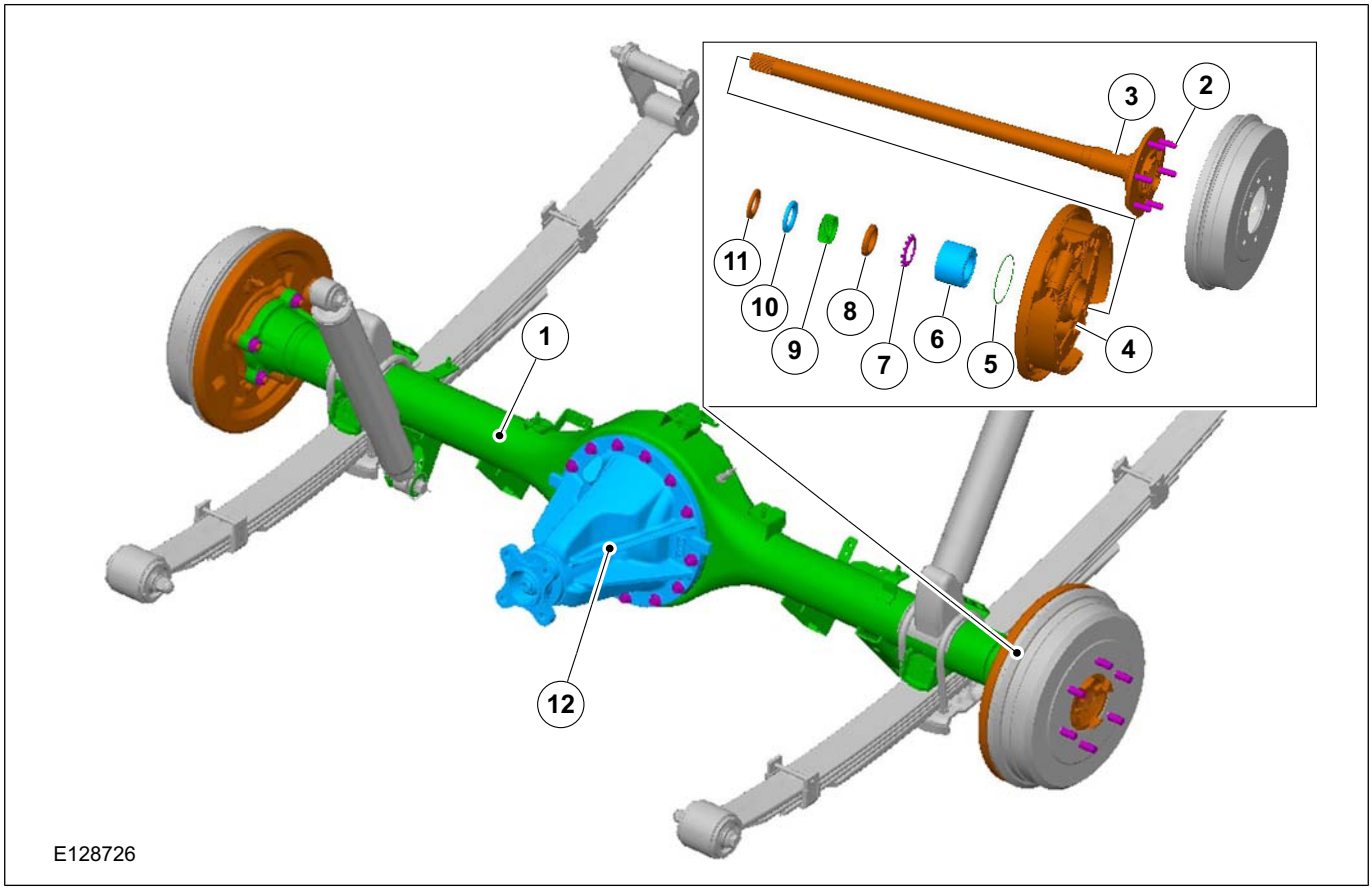
VEHICLE APPLICATION: 2011.50 Ranger

CONTENTS PAGE

DESCRIPTION AND OPERATION

Rear Drive Axle and Differential

Hi-Rider 4x2

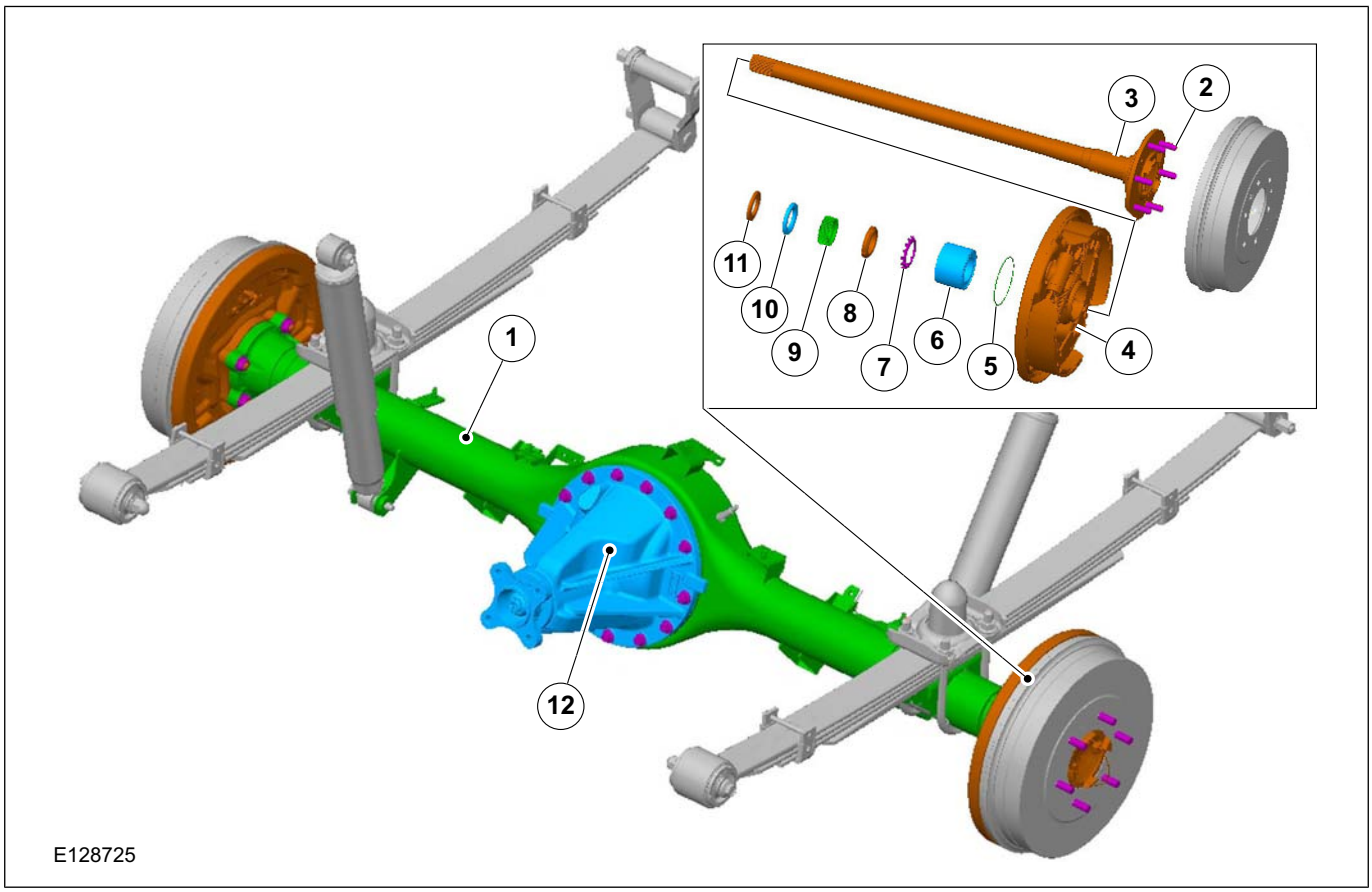


Item	Description
1	Axle housing
2	Wheel stud
3	Axle shaft
4	Brake shoe and wheel cylinder
5	O ring
6	Bearing assembly
7	Lock washer

Item	Description
8	Bearing retainer nut
9	Tone wheel ring
10	Axle shaft guide
11	Oil seal
12	Rear differential

Hi-Rider 4x4

DESCRIPTION AND OPERATION



Item	Description
1	Axle housing
2	Wheel stud
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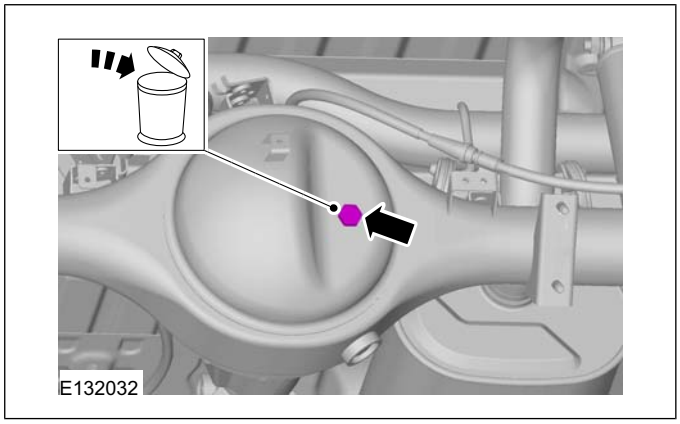
4	Brake shoe and wheel cylinder
5	O ring
6	Bearing assembly
7	Lock washer
8	Bearing retainer nut
9	Tone wheel ring
10	Axle shaft guide
11	Oil seal
12	Rear differential

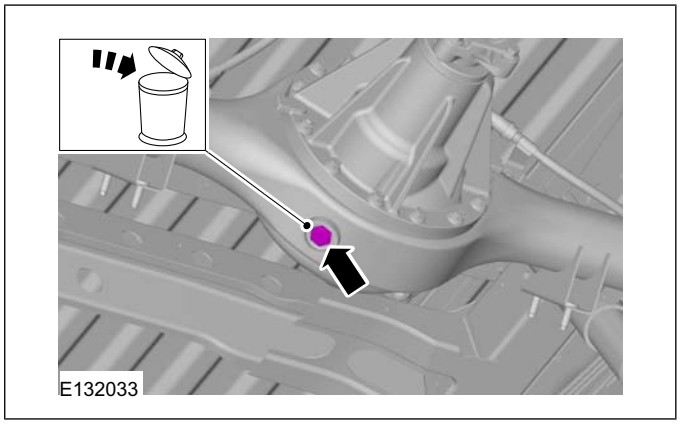
GENERAL PROCEDURES

Differential Draining and Filling

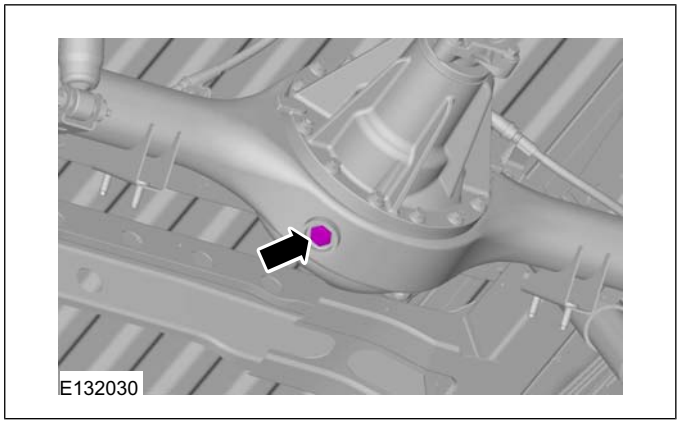
1. **For additional information, refer to: Lifting (100-02 Jacking and Lifting, Description and Operation).**
2. **Remove the oil-fill plug.**



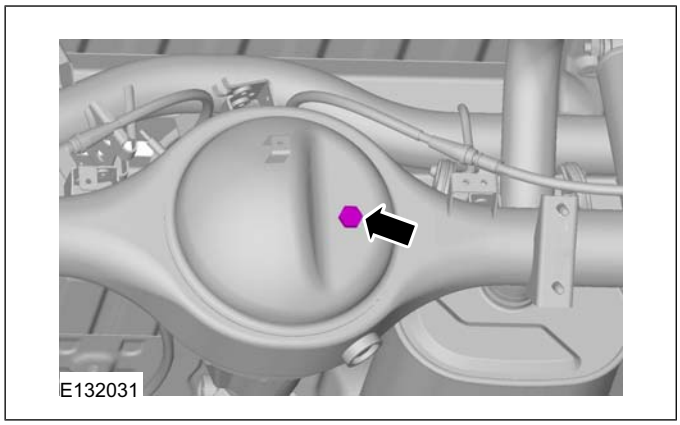
3. **Remove the drain plug and drain the oil.**



4. **Install the drain plug with a new washer and tighten.**
   - Tightening torque 45 Nm.



5. **Fill up with the specified rear axle oil to the lower edge of the filler hole.**
   - Rear differential oil [standard differential & LSD] Type: API service GL-5 Viscosity: SAE 90 Oil capacity (approx. quantity): 2.85—3.05 L.
6. **After adding the oil, perform the oil level inspection.**
7. **Install the oil-fill plug with a new washer and tighten.**
   - Tightening torque 45 Nm.



REMOVAL AND INSTALLATION

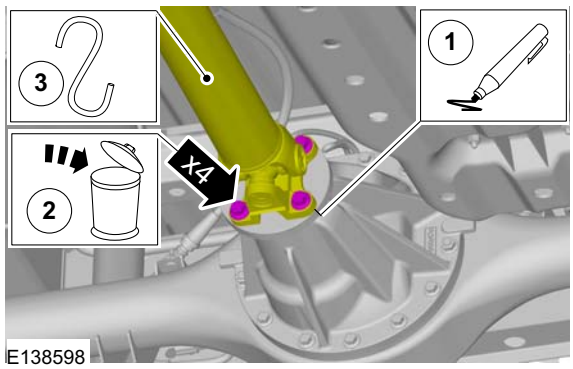
Axle Assembly — 2WD

General Equipment

Trolley Jack

Removal

NOTE: Removal steps in this procedure may contain installation details.

1. Refer to: Wheel and Tire (204-04 Wheels and Tires, Removal and Installation).
2. Refer to: Lifting (100-02 Jacking and Lifting, Description and Operation).
3. 

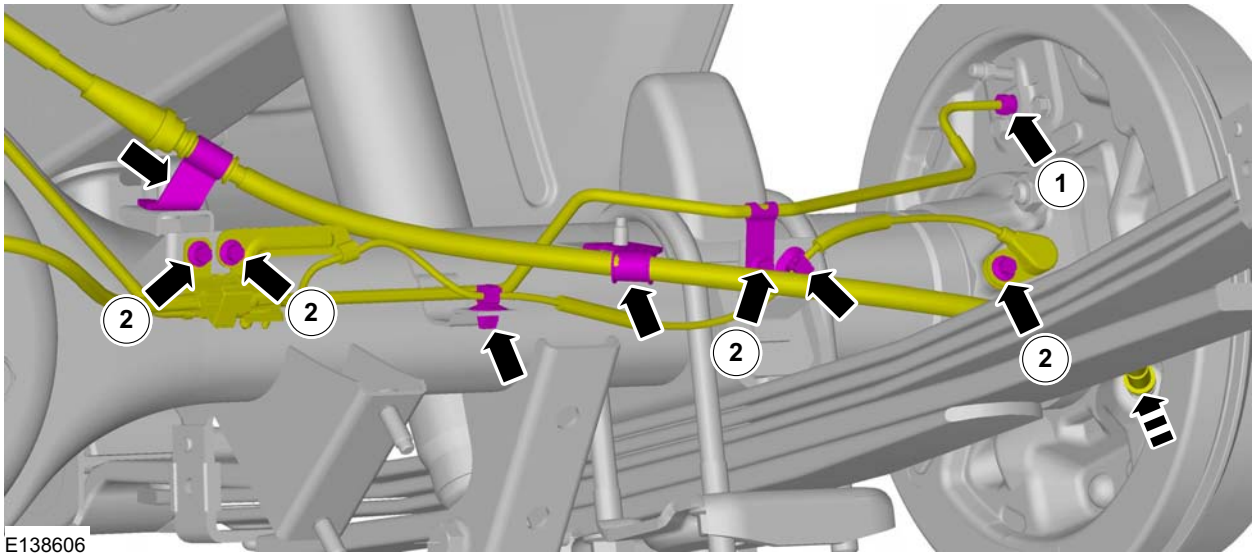
4. 1. **WARNING: Be prepared to collect escaping fluid.**

   CAUTIONS:

   If the fluid is spilled on the paintwork, the affected area must be immediately washed down with cold water.

   Make sure that all openings are sealed with new blanking caps.

   Torque: 19 Nm
   2. Torque: 7 Nm



REMOVAL AND INSTALLATION

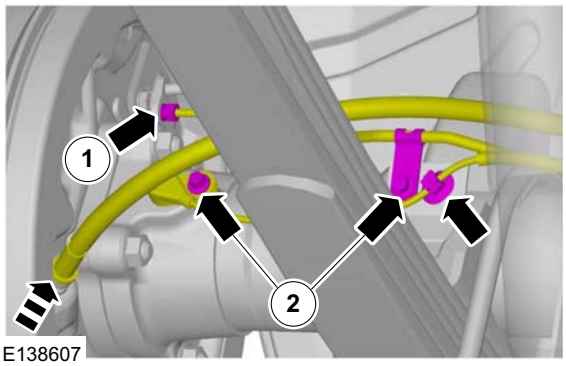
5. 1. **WARNING: Be prepared to collect escaping fluid.**

   CAUTIONS:

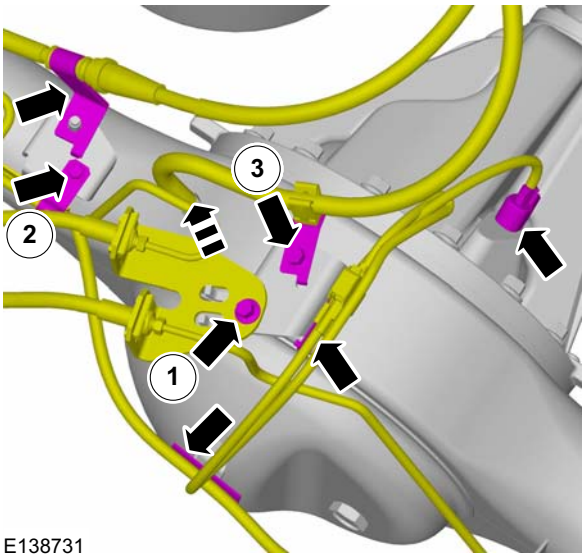
   If the fluid is spilled on the paintwork, the affected area must be immediately washed down with cold water.

   Make sure that all openings are sealed with new blanking caps.

   Torque: 19 Nm
   2. Torque: 7 Nm

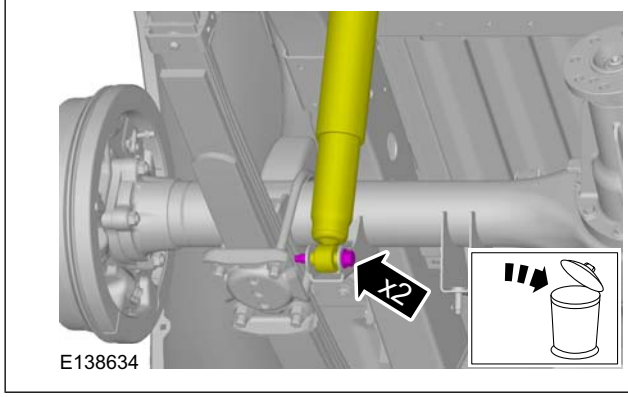


6. 1. Torque: 14 Nm
   2. Torque: 7 Nm
   3. Torque: 25 Nm

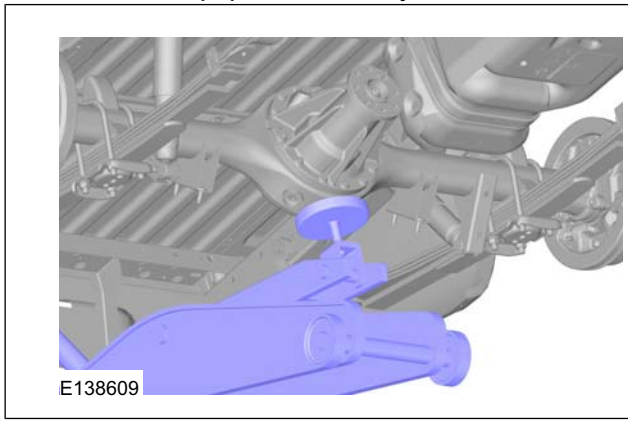


7. **CAUTION: Make sure that new bolts are installed.**

   General Equipment: Trolley Jack
   Torque: 48 Nm



8. General Equipment: Trolley Jack



9. On both sides.