

Halfshaft (47.11.01)

Special Service Tools



Halfshaft remover/replacer
204-506/1 (LRT-60-030/1)



Retainers - halfshaft remover/replacer
204-506/5 (LRT-60-030/5)



Halfshaft remover/replacer
204-506/3 (LRT-60-030/3)



Halfshaft installer adapter
204-506-01



Axle oil seal remover
308-005 (LRT-37-004/2)



E54135

Impulse extractor
100-012 (LRT-99-004)



E54136

Installer halfshaft oil seal
308-626/1



E54137

Installer/Guide halfshaft oil seal
308-626/2

Removal



CAUTION: Do not allow halfshafts to hang unsupported at one end or joint damage will occur.



CAUTION: Do not store or install halfshafts with joints at maximum articulation or damage may occur to the joint



CAUTION: Angularly Adjusted Roller (AAR) joints, used at the inboard end of some halfshafts have no internal retaining mechanism and can separate.



CAUTION: Do not undo or remove the large protruding hexagon on the differential casing.

1.



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

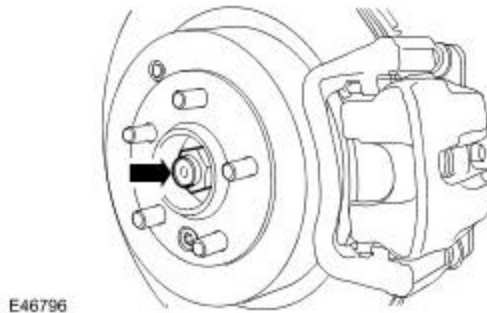
Raise and support the vehicle.

2.

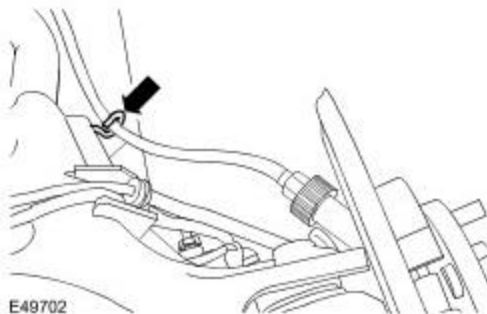
Drain the differential lubricant. For additional information, refer to [Differential Draining and Filling \(51.25.02\)](#) (Section 205-02)

3. Remove the wheel and tire.
4. Loosen the halfshaft retaining nut.

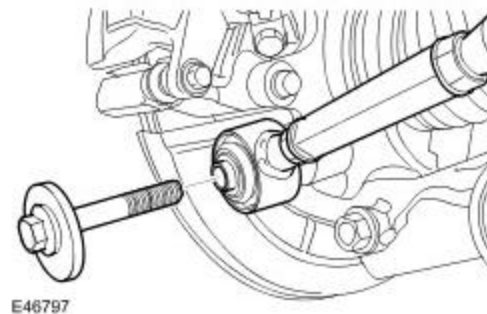
▶ Discard the nut.



5. Remove the stabilizer bar link. For additional information, refer to [Stabilizer Bar Link \(64.35.24\)](#) (Section 204 -02)
6. Release the parking brake cable from the lower arm.



7. Disconnect the toe link.
▶ Remove the bolt.

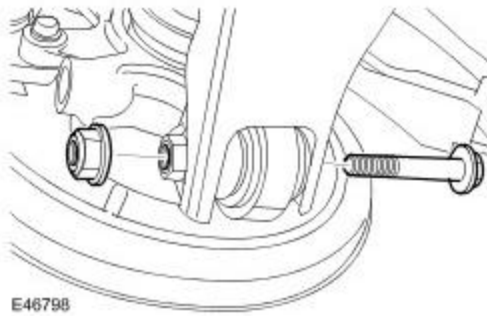


8. Remove the halfshaft retaining nut.

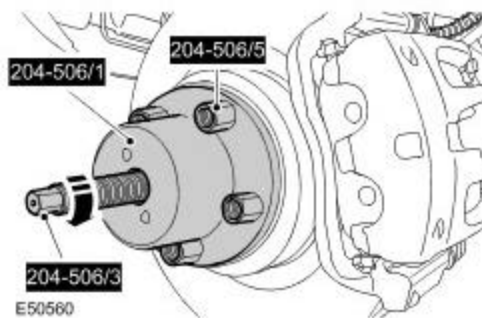
9.  **CAUTION:** Ensure the ball joint seal is not damaged. A damaged seal will lead to the premature failure of the joint.

Release the knuckle from the lower arm.

➤ Remove the bolt.

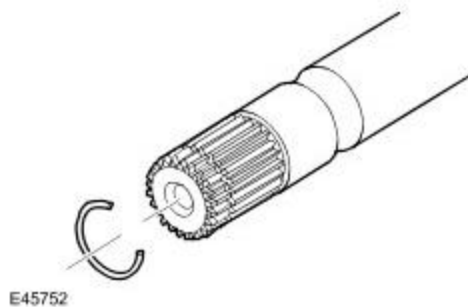


- 10 . Using the special tools, release the halfshaft from the wheel hub.

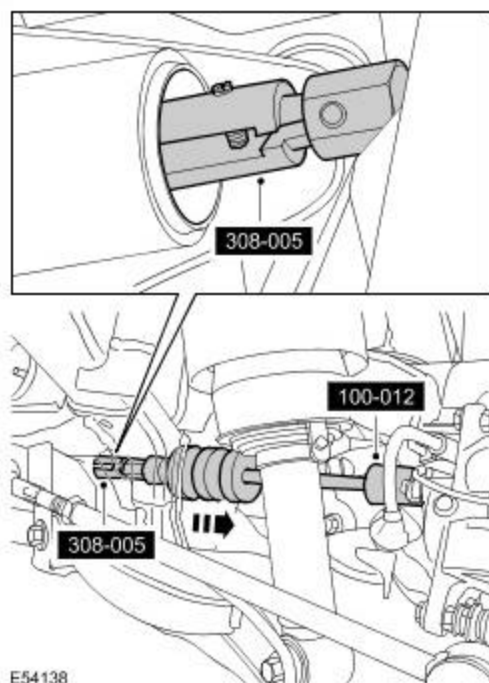


- 11 . Position a container to collect the oil spillage.
- 12 . Release the halfshaft from the differential housing.
- 13 . With assistance, remove the halfshaft.

➤ Remove and discard the snap ring.

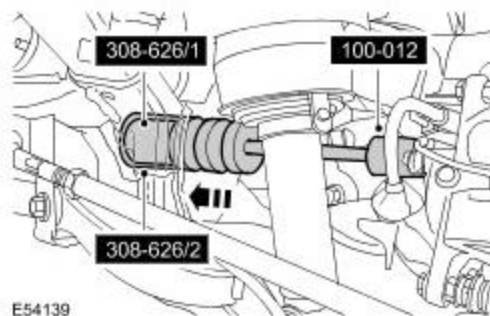


- 14 . Using the special tools, remove and discard the halfshaft oil seal.



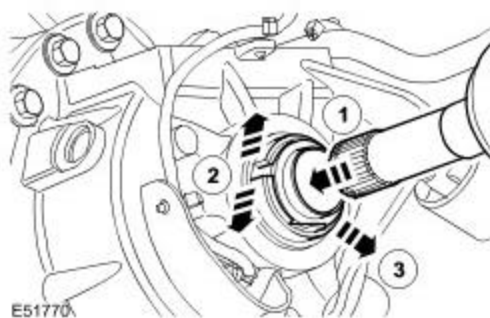
Installation

1. Clean the components.
2. Using the special tools, install a new halfshaft oil seal.
 - ▶ The halfshaft oil seal protector must be left in place, until the halfshaft is fully installed.

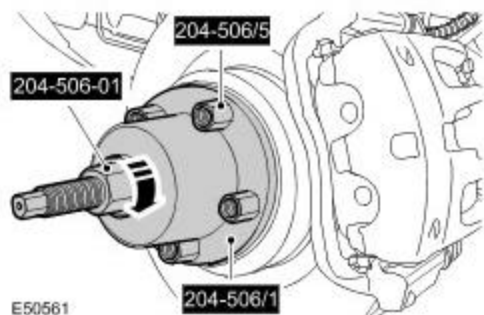



3. With assistance, install the halfshaft.
 - ▶ Install the snap ring.
 - ▶ Open the halfshaft oil seal protector.
 - ▶ Make sure the snap ring is fully engaged and retains the halfshaft.
4. **NOTE:**

The oil seal protector is designed to break into two pieces.
Remove and discard the halfshaft oil seal protector.




5. Using the special tools, install the halfshaft in the wheel hub.




6.  **CAUTION:** Ensure the ball joint seal is not damaged. A damaged seal will lead to the premature failure of the joint.

Connect the lower arm to the wheel knuckle.

 Tighten to 275 Nm (203 lb.ft).

7. Install a new halfshaft retaining nut and lightly tighten.


8. Connect the toe link.

 Tighten the bolt to 175 Nm (129 lb.ft).


9. Secure the parking brake cable to the lower arm.


10. Install the stabilizer bar link. For additional information, refer to [Stabilizer Bar Link \(64.35.24\)](#) (Section 204-02)

11. Tighten the halfshaft retaining nut to 350 Nm (258 lb.ft).

 Stake the nut to the halfshaft.

12. Install the wheel and tire.

 Tighten the wheel nuts to 140 Nm (103 lb.ft).

13.  **CAUTION:** Do not fill the differential with lubricant up to the filler plug. The filler plug is only used to fill the differential with lubricant, and not to act as a level indicator.

Fill the differential with the correct amount of lubricant. For additional information, refer to [Differential Draining and Filling \(51.25.02\)](#) (Section 205-02)