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2010.0 DISCOVERY 4 / LR4 , 205-04

FRONT DRIVE HALFSHAFTS

FRONT LEFT HALFSHAFT (G2250255)

REMOVAL AND INSTALLATION

47.10.01

FRONT LEFT
HALFSHAFT -
RENEW

ALL
DERIVATIVES

1.30

USED WITHINS

SPECIAL TOOL(S)



E54135

100-012

Slide Hammer

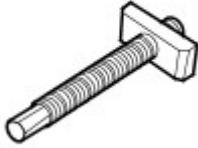


E49618

204-506/1

Remover/Installer, Halfshaft

204-506/3

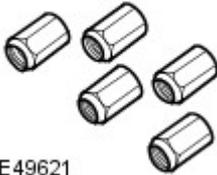


E49620

204-506/3

Remover/Installer, Halfshaft Screw Thread

204-506/5



E49621

204-506/5

Retainers, Halfshaft tools

204-506-01

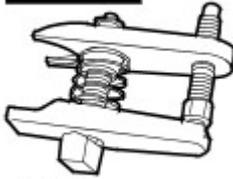


E49622

204-506-1

Remover/Installer, Halfshaft Adapter

205-754A



E45276

205-754A

Splitter, Ball Joints

308-005



E54134

308-005

Remover, Axle oil seal

308-626/1



E54136

308-626-1

Installer, Halfshaft Oil Seal

308-626/2



E54137

308-626-2

Installer/Guide, Halfshaft Oil Seal

PART(S)

STEP	PART NAME	QUANTITY
Installation Step 2	Halfshaft seal	1
Installation Step 3	Circlip	1
Installation Step 5	Front suspension upper arm ball joint to wheel knuckle nut (s)	1
Installation Step 6	Stabilizer bar link upper nut	1
Installation Step 7	Ball joint nut(s)	1
Installation Step 8	Front halfshaft bearing retainer nuts	1
Installation Step 10	Stabilizer bar link lower nut	1

REMOVAL

⚠ CAUTIONS:

- Do not touch the gaiter and when handling the halfshaft make sure that the gaiters does not touch any sharp component or object.
- When handling the halfshaft, do not articulate the Constant Velocity joint (CV). Failure to follow this instruction may result in damage to the CV and gaiter.
- Before disconnecting any components, make sure the area is clean and free from foreign material. When disconnected all openings must be sealed.

⚠ NOTES:

- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.

1.

⚠ WARNING:

Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

2.

Drain the differential lubricant.

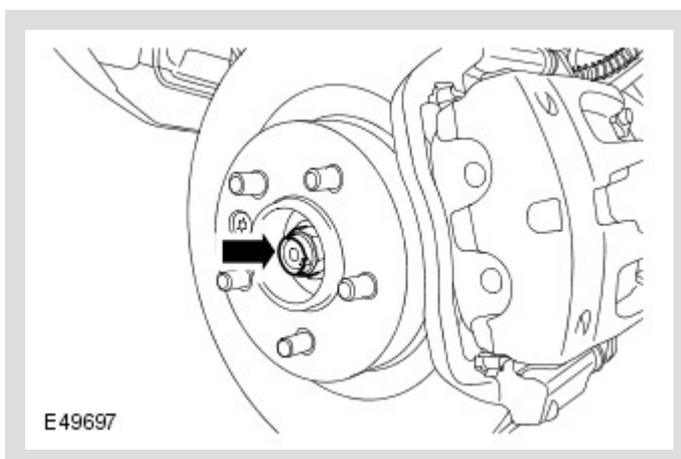
Refer to: [Differential Draining and Filling](#) (205-03 Front Drive Axle/Differential, General Procedures).

3.

Remove the wheel and tire.

Refer to: [Wheel and Tire](#) (204-04, Removal and Installation).

4.

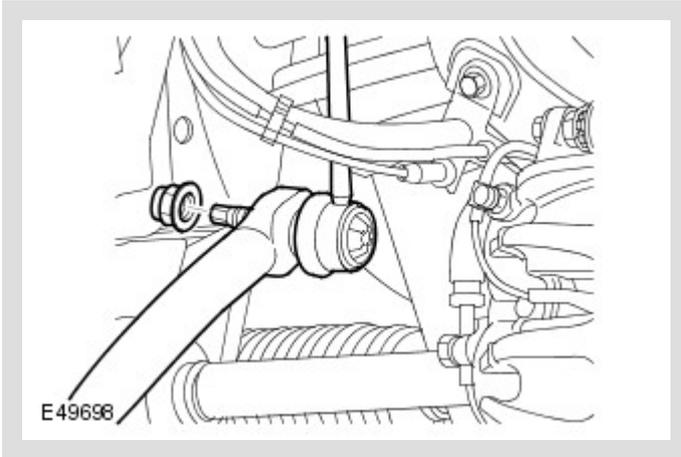


Remove and discard the halfshaft nut.

5.

⚠ CAUTION:

Use a wrench on the hexagon provided to prevent the ball joint rotating.

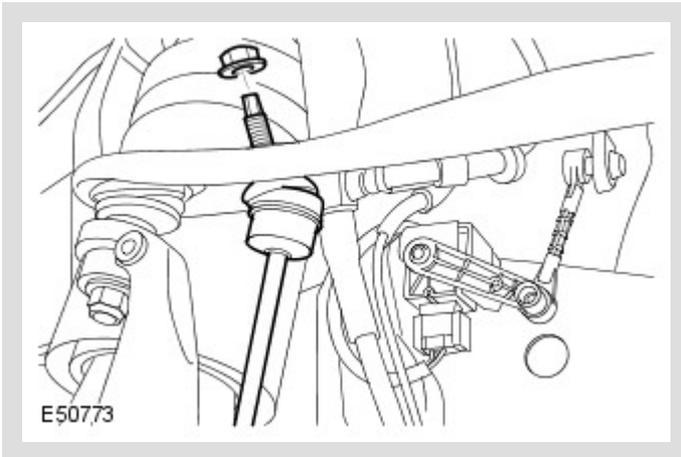


Remove and discard the nut. Disconnect the stabilizer bar link.

6.

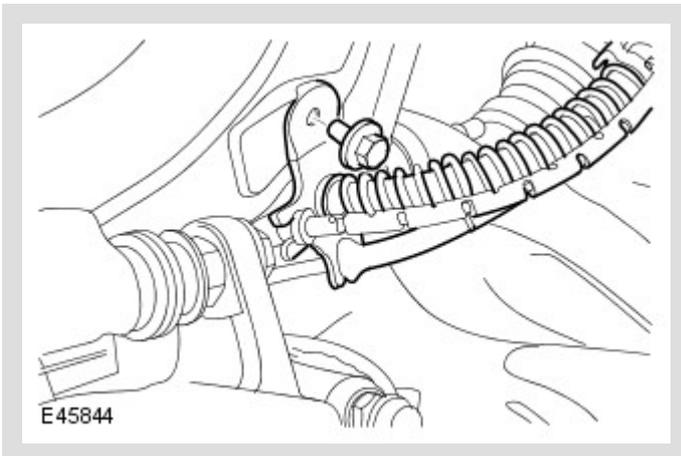
⚠ CAUTION:

Use a wrench on the hexagon provided to prevent the ball joint rotating.



Remove and discard the nut. Remove the stabilizer bar link nut.

7.



Remove the bolt. Release the brake hose bracket from the wheel knuckle.

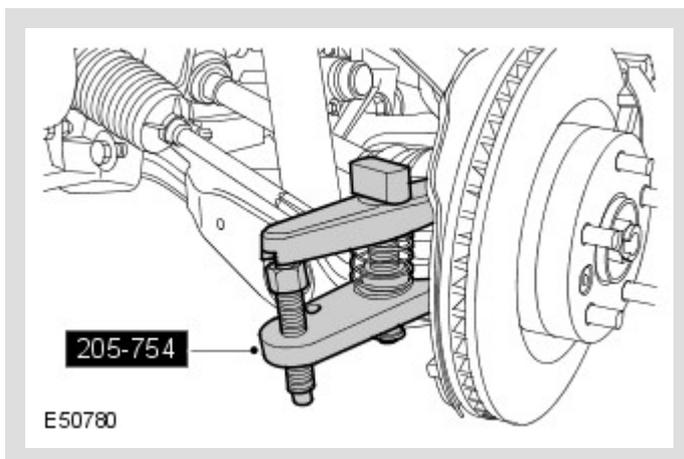
8.

Loosen the tie-rod end ball joint retaining nut.

9.

⚠ CAUTION:

Make sure the ball joint seal is not damaged. A damaged seal will lead to the premature failure of the joint.



Discard the nut. Using the special tool, release the tie-rod end ball joint from the wheel knuckle.

Special Tool(s): [205-754A](#)

10.

⚠ CAUTION:

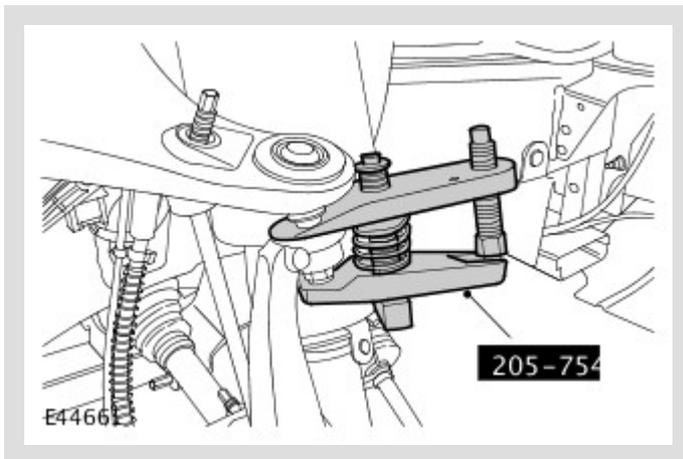
To prevent the wheel knuckle falling outwards and disconnection of the halfshaft inner joint, support the wheel knuckle.

Loosen the upper arm retaining nut.

11.

⚠ CAUTION:

Make sure the ball joint seal is not damaged. A damaged seal will lead to the premature failure of the joint.



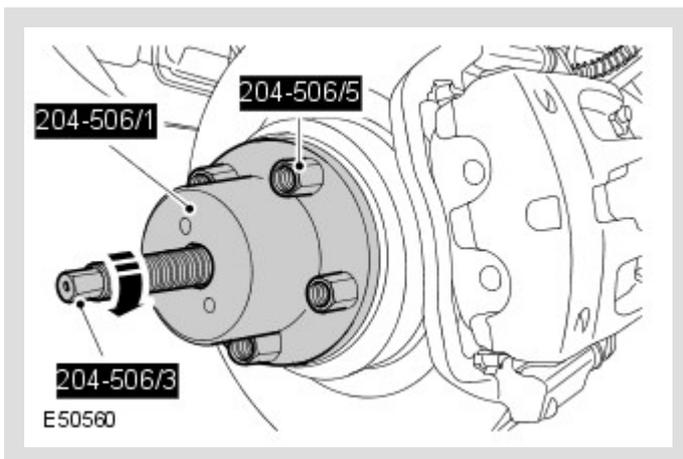
Remove and discard the retaining nut. Using the special tool, release the upper arm ball joint.

Special Tool(s): [205-754A](#)

12.

⚠ CAUTIONS:

- The lower arm ball joint can be damaged by excessive articulation. The wheel knuckle must be fully supported at all times. Do not allow the wheel knuckle to hang on the lower arm. Failure to follow this instruction will result in damage to vehicle.
- Do not use a hammer to detach the halfshaft from the hub assembly, failure to follow this instruction may result in damage to the halfshaft.



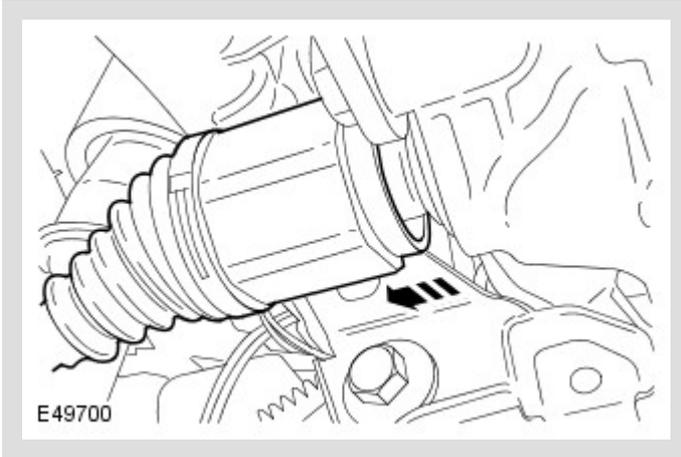
Using the special tools, release the halfshaft from the wheel hub.

Special Tool(s): [204-506/1](#), [204-506/3](#), [204-506/5](#)

13.

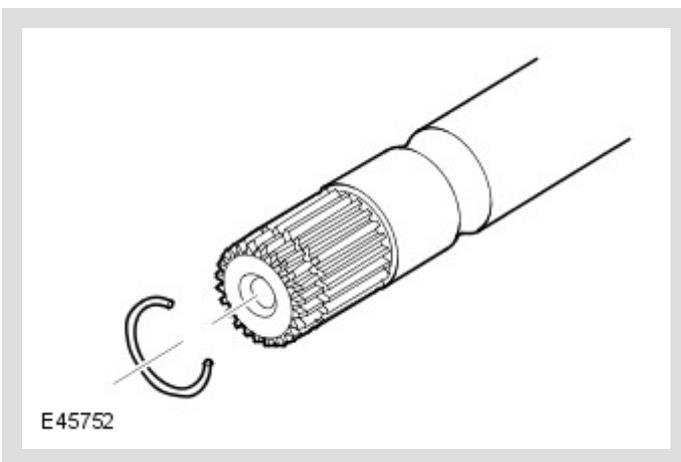
Release the halfshaft from the wheel knuckle.

14.

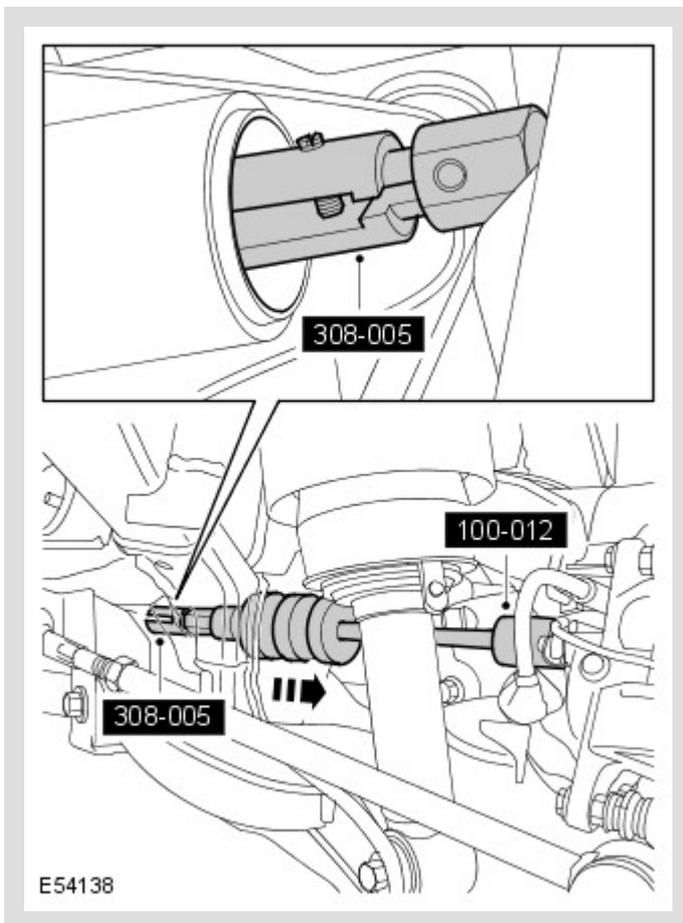


Release the halfshaft from the differential housing.

15.



Remove and discard the circlip. Remove the halfshaft. Raise the stabilizer bar to allow removal of the halfshaft.



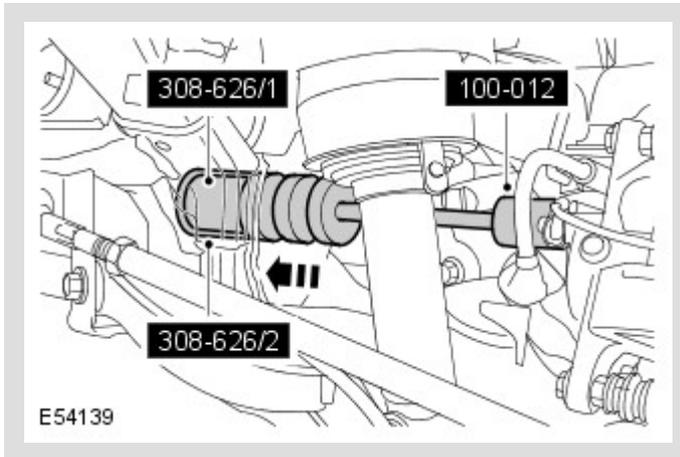
Using the special tools, remove and discard the halfshaft oil seal.

Special Tool(s): [308-005](#), [100-012](#), [308-005](#)

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.

Special Tool(s): [308-626-1](#), [100-012](#), [308-626-2](#)

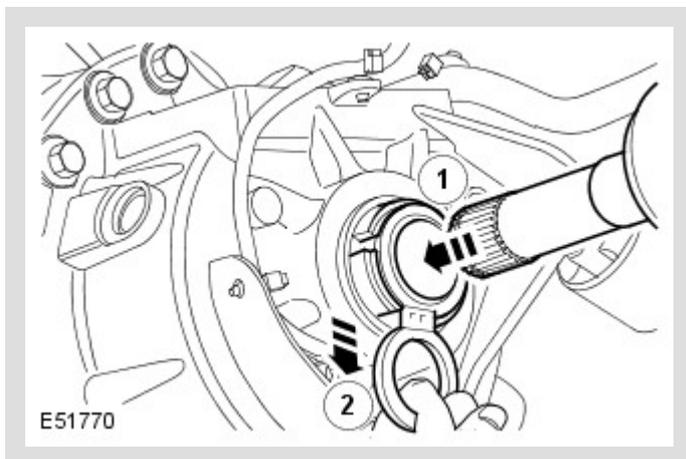
Renew Part: [Halfshaft seal](#) *Quantity:* 1.

⚠ CAUTION:

Do not fully engage the halfshaft until the oil seal protector has been removed.

⚠ NOTE:

The oil seal protector is designed to break into two pieces.



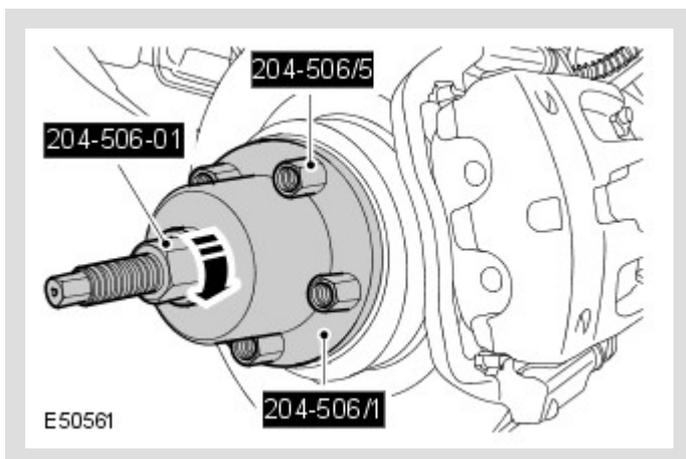
Install the halfshaft. Install the circlip. Lubricate the seal and the bearing running surfaces with clean axle oil. Open the halfshaft oil seal protector. Partially install the halfshaft. Remove and discard the halfshaft oil seal protector. Make sure the circlip is fully engaged and retains the halfshaft.

Renew Part: [Circlip](#) *Quantity:* 1.

4.

ⓘ CAUTIONS:

- The lower arm ball joint can be damaged by excessive articulation. The wheel knuckle must be fully supported at all times. Do not allow the wheel knuckle to hang on the lower arm. Failure to follow this instruction will result in damage to vehicle.
- Use tool 204-506-01(LRT-60-030/4) for L319 up to Vehicle Identification Number (VIN) 671700, L320 up to VIN 810673. Use tool number JLR-204-506-01 for L319 from VIN 671701, L320 from VIN 810674. Failure to follow this instruction will result in damage to vehicle.



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

Special Tool(s): [204-506-1](#), [204-506/1](#), [204-506/5](#)

5. Connect the upper arm and wheel knuckle. Install a new nut and tighten.

Renew Part: [Front suspension upper arm ball joint to wheel knuckle nut \(s\)](#) *Quantity:* 1.

Torque: **70Nm**

6. Secure the stabilizer bar link. Install a new nut and tighten.

Renew Part: [Stabilizer bar link upper nut](#) *Quantity:* 1.

Torque: **115Nm**

7. Connect the tie-rod end ball joint. Install a new nut and tighten.

Renew Part: [Ball joint nut\(s\)](#) *Quantity:* 1.

Torque: **76Nm**

8.

ⓘ CAUTION:

Install the halfshaft nut finger tight.

Install a new halfshaft nut and lightly tighten.

Renew Part: [Front halfshaft bearing retainer nuts](#) *Quantity:* 1.

9. Secure the brake hose retaining bracket to the wheel knuckle. Tighten the bolt.

Torque: **22Nm**

10. Secure the stabilizer link. Install a new nut and tighten.

Renew Part: [Stabilizer bar link lower nut](#) Quantity: 1.

Torque: **115Nm**

11.

 **CAUTION:**

Do not use air tools to install the nut. Failure to follow this instruction may result in damage to the component.

Tighten the new halfshaft retaining nut. Stake the nut to the halfshaft.

Torque: **230Nm**

12. Install the wheel and tire. Tighten the wheel nuts.

Torque: **140Nm**

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.

Refer to: [Differential Draining and Filling](#) (205-03 Front Drive Axle/Differential, General Procedures).