



Published : Feb 9, 2005

Steering Gear - 4.4L (57.10.01)

Special Service Tools




Ball joint separator (LRT-54-027)
205-754

Removal

All vehicles

1. Disconnect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)

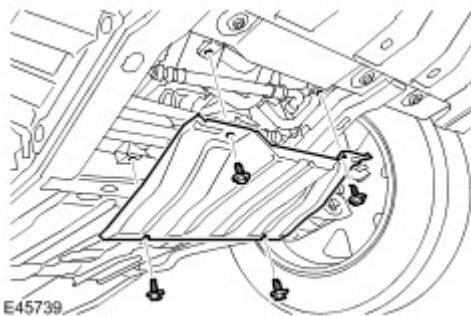
2.  **WARNING: Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.**

Raise and support the vehicle.

3. Remove the front wheels and tires.

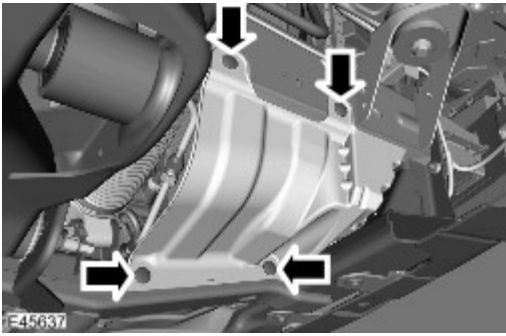
4. Remove the radiator access panel.

➤ Remove the 4 bolts.



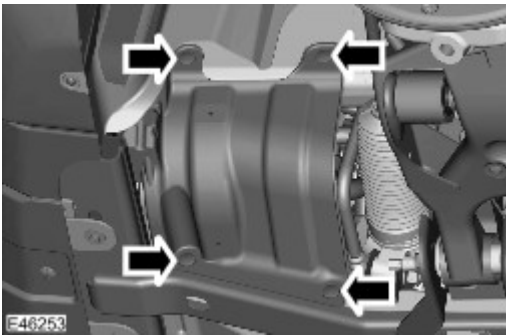
5. Remove the front RH splash shield.

➤ Remove the 4 clips.



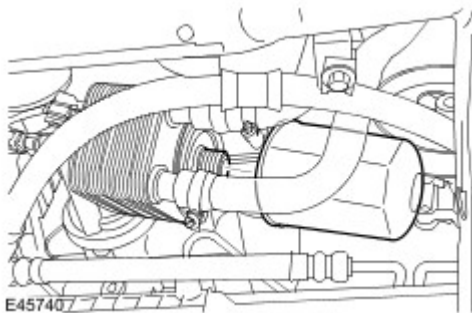
6. Remove the front LH splash shield.

➤ Remove the 4 clips.



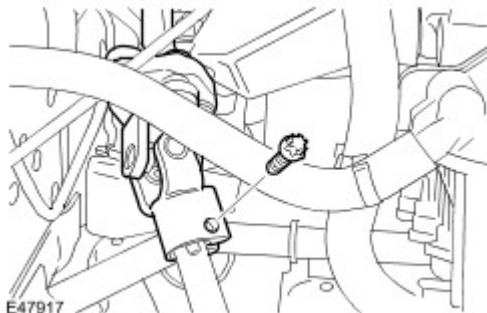
7. Remove the oil filter.

➤ Position a container to collect the fluid.

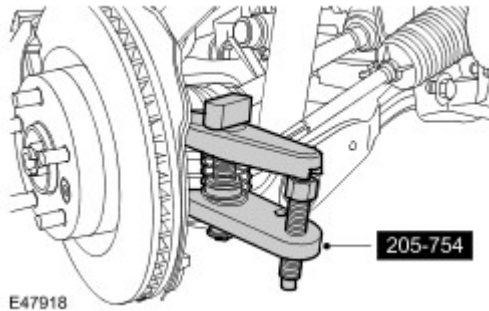


8. **NOTE :**
Make sure the steering is in the straight ahead position.
Release the universal joint from the steering gear.

➤ Remove and discard the bolt.



9. Release both tie-rod end ball joints.
- Loosen both tie rod end ball joint nuts.
 - Use the special tool.
 - Remove the 2 nuts.



10.  **CAUTION: Always plug any open connections to prevent contamination.**

Disconnect the high pressure line from the power steering pump.

- Disconnect the banjo bolt.
- Allow the fluid to drain into a container.
- Remove and discard the seals.

11.  **CAUTION: Always plug any open connections to prevent contamination.**

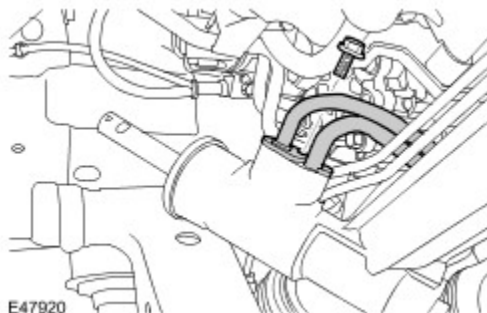
NOTE :

Under no circumstances must the low pressure spigot be removed from the steering pump.

Disconnect the low pressure line from the power steering pump.

- Release the clip.
- Loosen and release the power steering pump line.

12. Disconnect the pressure lines from the power steering gear.
- Remove the bolt.
 - Position an absorbent cloth to collect fluid spillage.
 - Remove and discard the O-ring seals.



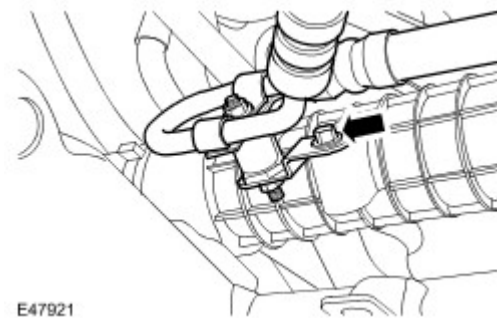
Vehicles with dynamic suspension

1. Release the dynamic response line supports.
 - Remove the 2 nuts.
 - Remove the 2 supports.



All vehicles

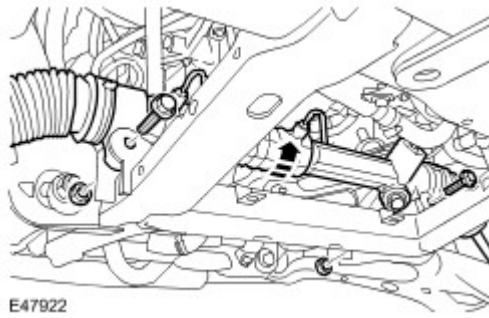
1. Remove the steering gear high-pressure line.
 - Remove the bolt.



2. Disconnect the steering gear electrical connector.



3. Remove the steering gear.
 - Remove the 2 bolts and discard the cage nuts.
 - With assistance, carefully rotate and release the steering gear.



Installation

All vehicles

- 1 . Clean the component mating faces.
- 2 . Install the steering gear.
 - Tighten the bolts to 175 Nm (129 lb.ft).
- 3 . Connect the electrical connector.
- 4 . **NOTE :**
Do not install the support bracket bolt until the steering gear connections are tightened.
Install the steering gear high pressure line.
- 5 . **NOTE :**
Lubricate the seals with clean power steering fluid.
Connect the steering gear pressure lines.
 - Clean the component mating faces.
 - Install new O-ring seals.
 - Tighten the bolt to 22 Nm (16 lb.ft).
- 6 . Connect the low pressure line to the power steering pump.
 - Clean the component mating faces.
 - Secure with the clip.
- 7 . Connect the high-pressure line to the power steering pump.
 - Clean the component mating faces.
 - Install new seals.
 - Connect the banjo and tighten to 22 Nm (16 lb.ft).
- 8 . Install the power steering line support bracket.
 - Tighten the bolt to 10 Nm (7 lb.ft).

Vehicles with dynamic suspension

- 1 . Install the dynamic response line supports.
 - ▶ Tighten the supports to 10 Nm (7 lb.ft).
 - ▶ Tighten the nuts to 10 Nm (7 lb.ft).

All vehicles

- 1 . Connect the tie-rod end ball joints.
 - ▶ Install new nuts and tighten to 70 Nm (52 lb.ft).
- 2 . Connect the universal joint to the steering gear.
 - ▶ Install new patchlock bolt and tighten to 25 Nm (18 lb.ft).
- 3 . Install the engine oil filter.
 - ▶ Lubricate the oil filter seal with clean engine oil and tighten to 18 Nm (13 lb.ft).
 - ▶ Tighten the bolts to 10 Nm (7 lb.ft).
- 4 . Install the radiator access panel.
 - ▶ Install the 4 bolts and tighten to 10 Nm (7 lb.ft).
- 5 . Install the front LH splash shield.
- 6 . Install the front RH splash shield.
- 7 . Install the front wheels and tires.
- 8 . Connect the battery ground cable. For additional information, refer to [Specifications](#) (Section 414-00)
- 9 . Fill and bleed the power steering system. For additional information, refer to [Power Steering System Filling and Bleeding](#) (Section 211-00)
- 10 . Check and top-up the engine oil.
- 11 . Adjust the front wheel alignment.