

## Ride and Handling Optimization - Front Stabilizer BarV8 S/C 4.2L Petrol

Removal and Installation

Special Tool(s)	
 <p>204-703</p> <p>E99557</p>	<p>Front Stabilizer Bar Bushing Tightening Tool</p> <p>204-703</p>
 <p>204-705</p> <p>E99558</p>	<p>Front Stabilizer Bar Bushing Tightening Tool</p> <p>204-705</p>

### Removal

#### • CAUTIONS:



Do not remove or loosen the 6 bolts on the stabilizer bar. Failure to follow this instruction may result in damage to or failure of the stabilizer bar.



Dynamic Response system components are manufactured to very precise tolerances. It is therefore essential that absolute cleanliness is observed when working with these components. Always install blanking plugs to any open orifices or lines. Failure to follow this instruction may result in foreign matter ingress to the dynamic response system.

- 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.

- Remove the front wheels and tires.
- Remove the engine undershield.  
For additional information, refer to: [Engine Undershield](#) (501-02 Front End Body Panels, Removal and Installation).

#### 4. CAUTIONS:



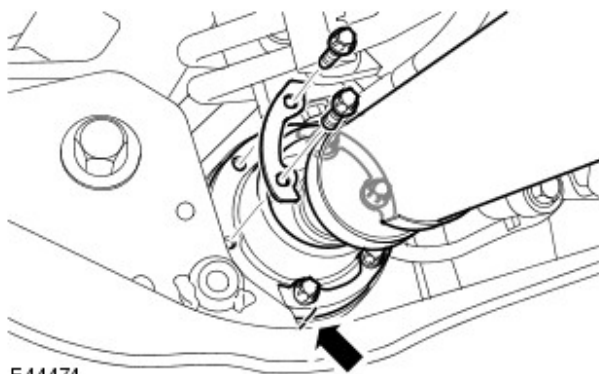
Mark the position of the driveshaft flange in relation to the drive pinion flange.

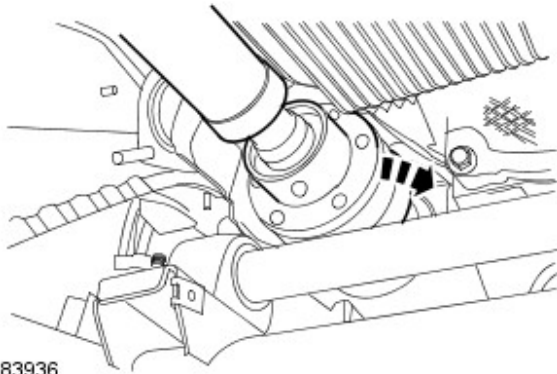


To avoid damage to the joint or gaiter, do not allow the driveshaft to hang.

Release the driveshaft from the front axle drive flange.

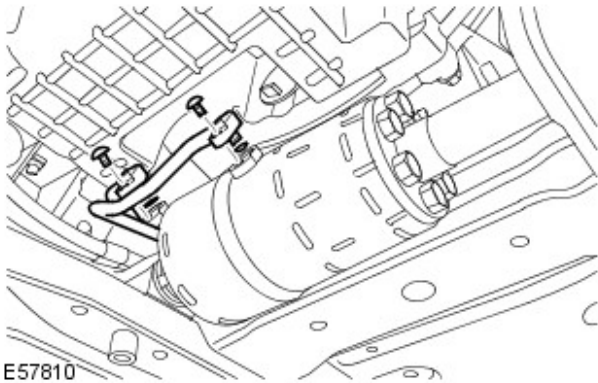
- Remove the 6 Torx bolts and washers.
- Discard the bolts.





##### 5. Support the driveshaft.

- Compress the joints to disengage the drive flanges.
- Using suitable securing strap, reposition and support the driveshaft.



##### 6. CAUTIONS:



Before disconnecting or removing the components, make sure the area around the joint faces and connections are clean. Plug open connections to prevent contamination.

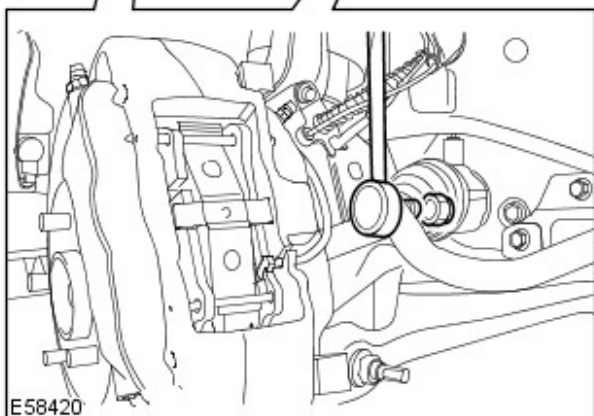
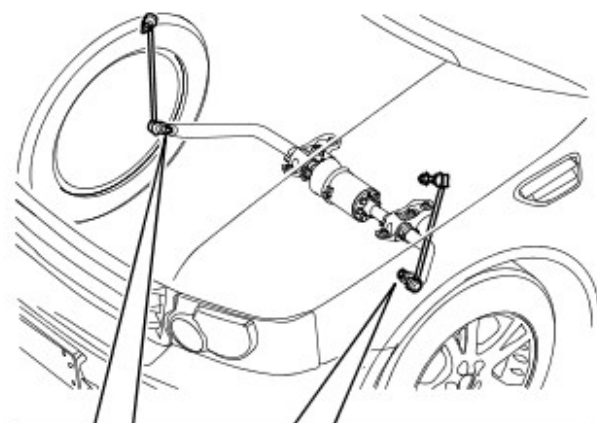


Make sure the actuator fluid lines are not damaged or kinked during removal or installation.

- NOTE: Some fluid spillage is inevitable during this operation.

Disconnect the fluid lines from the actuator.

- Position container to collect fluid loss.
- Remove the 2 bolts.
- Remove and discard the O-ring seals.
- Remove and discard the plastic spacer washers.



## 7. CAUTIONS:



Note the position of the hardened steel washer. The hardened steel washer must be installed between the stabilizer bar link and the stabilizer bar. Failure to follow this instruction may result in damage to the vehicle.



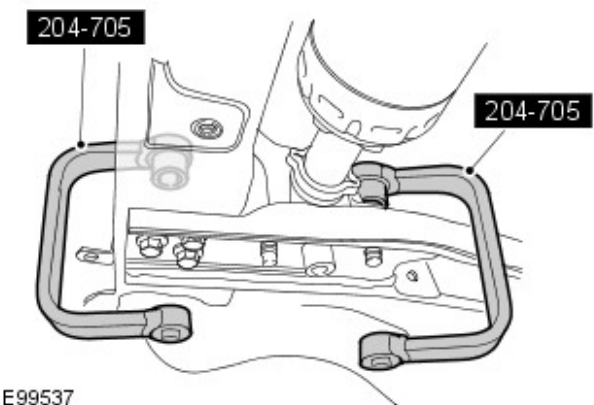
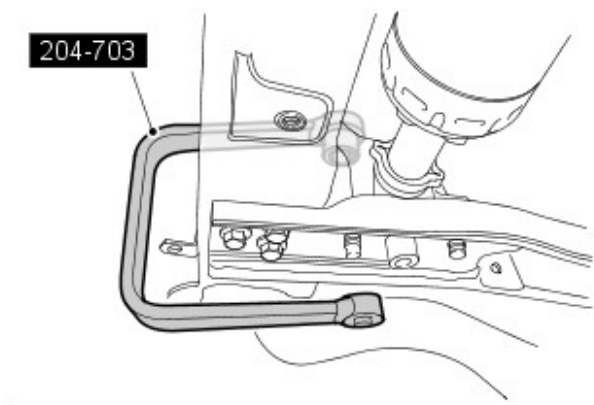
Use a Torx socket to prevent the ball joint rotating whilst removing the nut.

Release both of the stabilizer bar links from the stabilizer bar.

- Remove and discard the 2 nuts.

## 8. NOTE: Right-hand shown, left-hand similar.

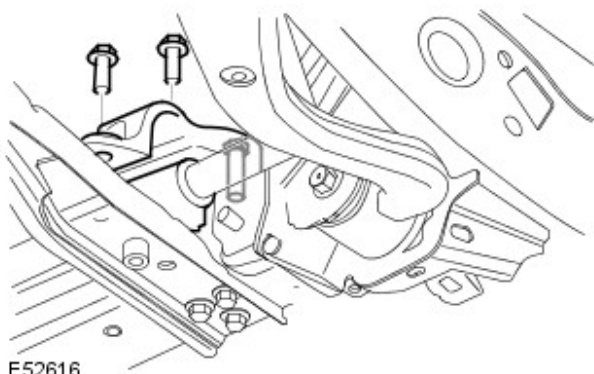
Position the special tools.



**9. NOTE:** Left-hand shown, right-hand similar.

Remove the stabilizer bar bushings.

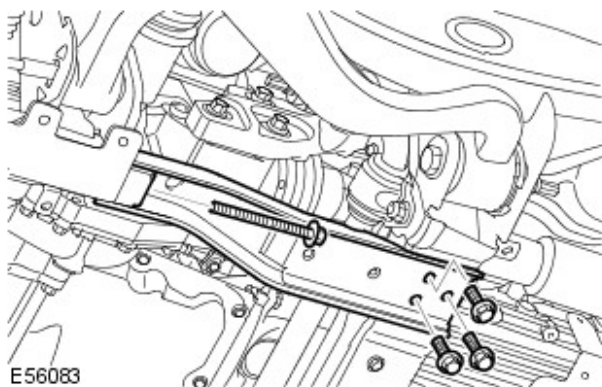
- Using the special tools, remove and discard the 6 bolts.
- Remove the stabilizer bar clamps.



E52616

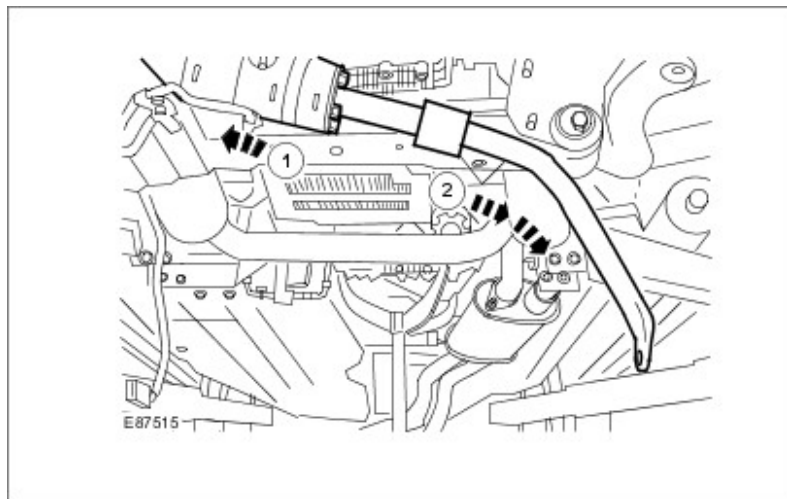
**10.** Remove the front axle crossmember.

- Remove the 4 bolts.



E56083

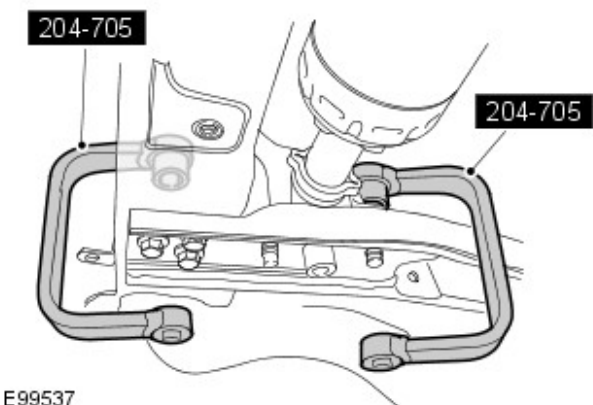
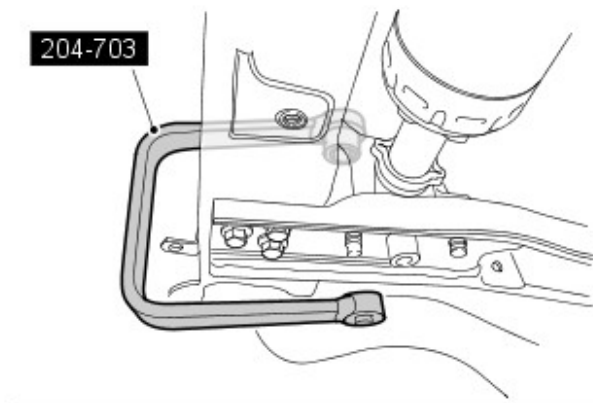
**11.** Remove the stabilizer bar and actuator assembly.



E87515

### Installation

- 1.** Install the stabilizer bar and actuator assembly.
- 2.** Install the front axle crossmember.
  - Tighten the 4 bolts to 115 Nm (85 lb.ft).



E99537

### 3. Install the stabilizer bar clamps.

- Clean the components.
- Install the stabilizer bar clamps.
- Using the special tools, tighten the bolts to 115 Nm (85 lb.ft).

### 4. CAUTIONS:

**!** Make sure the hardened steel washer is installed between the stabilizer bar link and the stabilizer bar. Failure to follow this instruction may result in damage to the vehicle.

**!** Use a Torx socket to prevent the ball joint rotating whilst installing the nut.

Secure both stabilizer bar links to the stabilizer bar.

- Install a new nut and tighten to 175 Nm (129 lb.ft).

### 5. CAUTIONS:

**!** Make sure the actuator fluid lines are not damaged or kinked during removal or installation.

**!** Care must be taken to avoid damage to the plastic spacer washers and O-ring seals during installation of the fluid lines to the actuator.

- NOTE: Remove and discard the blanking caps.

Connect the fluid lines to the actuator.

- Clean the component mating faces.
- Install new plastic spacer washers and O-ring seals.
- Tighten the 2 bolts to 22 Nm (16 lb.ft).

**6.** Using the approved Land Rover diagnostic system, bleed the active stabilization system.

**7. 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.

Secure the driveshaft to the front axle drive flange.

- Remove and discard the tie strap.
- Clean the components.
- Compress the joints to engage the drive flanges.
- Install new retaining bolts.
- Stage 1: Tighten the bolts to 45 Nm (33 lb.ft).
- Stage 2: Tighten the bolts a further 90 degrees.

**8.** Install the engine undershield.

For additional information, refer to: [Engine Undershield](#) (501-02 Front End Body Panels, Removal and Installation).

**9.** Install the front wheels and tires.

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