

**Manual Transmission / Transaxle External Controls - TDV6 2.7L Diesel -****Lubricant**

| Item                       | Specification                                             |
|----------------------------|-----------------------------------------------------------|
| * Gearshift linkage grease | Land Rover Part Number UYL 500010 (Kluebersynth LI 44-22) |



**CAUTION:** \* Do not use any grease other than that specified

**General Specifications**

| Item                   | Specification                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------|
| Gearshift linkage type | Rod shifter enabling selection of six forward gears and one reverse gear with 'knock over' selection of reverse |

**Torque Specifications**

| Description                                | Nm | lb-ft |
|--------------------------------------------|----|-------|
| Gearshift mechanism mounting bracket bolts | 25 | 18    |

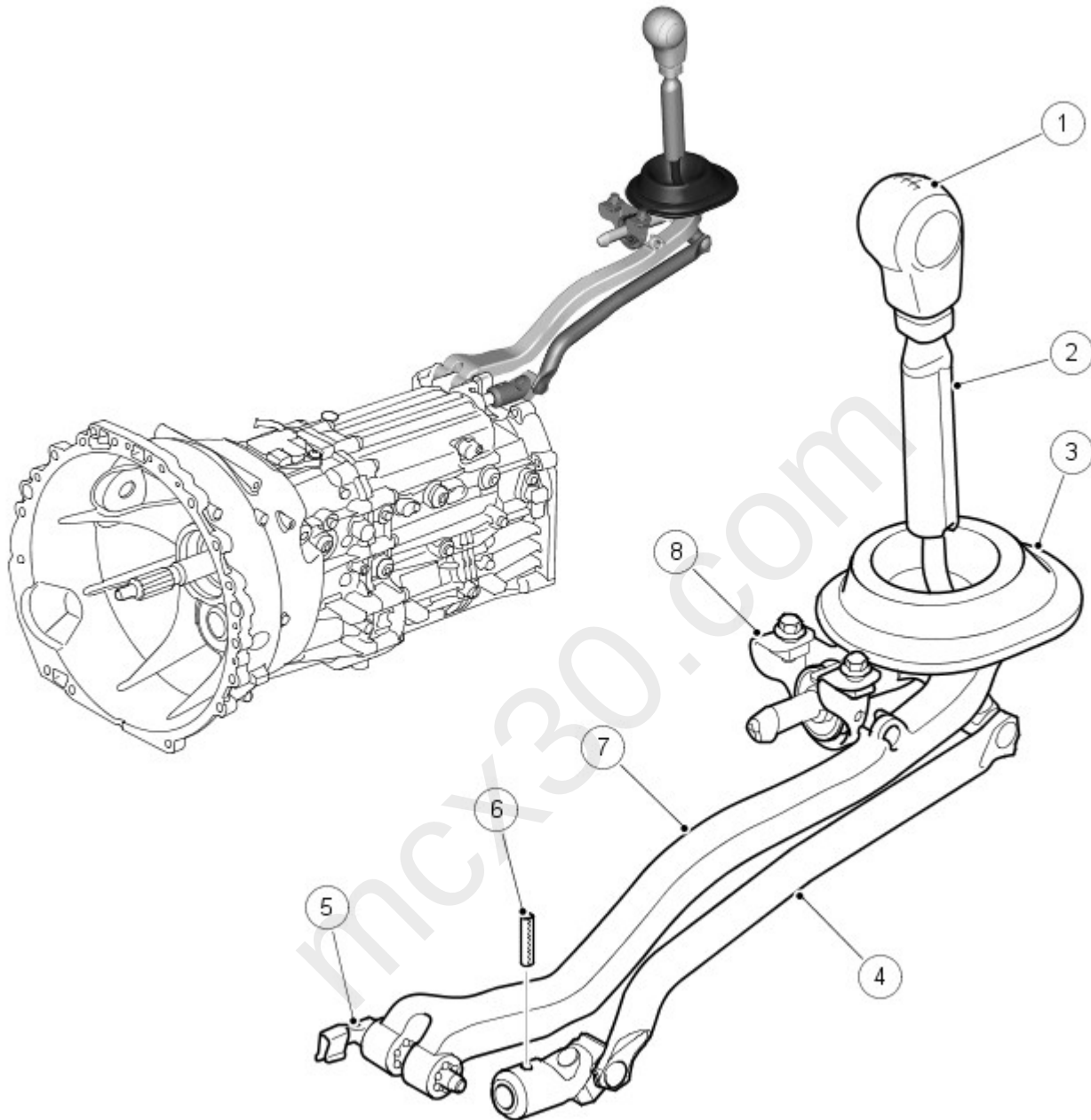
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# Manual Transmission / Transaxle External Controls - TDV6 2.7L Diesel -

## External Controls

Description and Operation

Gear Change Mechanism

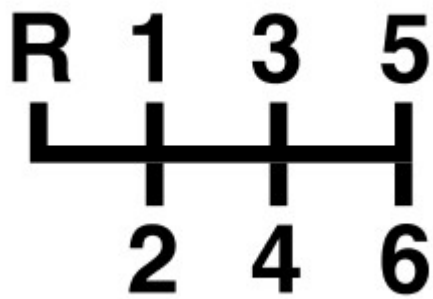


E47713

| Item | Part Number | Description     |
|------|-------------|-----------------|
| 1    | -           | Gear knob       |
| 2    | -           | Gear lever      |
| 3    | -           | Gaiter          |
| 4    | -           | Shift rod       |
| 5    | -           | Clevis pin      |
| 6    | -           | Roll pin        |
| 7    | -           | Steady rod      |
| 8    | -           | Floater bracket |

The gear change assembly is bolted to the transmission tunnel via a floater bracket. A pin and retainer connects the shift rod to the transmissions selector shaft. A steady rod is fitted between the gear change mechanism and the rear of the transmission casing. The rod is held in place by means of a clevis pin for added strength and rigidity.

The gear lever incorporates a vibration attenuator to reduce any Noise Vibration and Harshness (NVH) generated by the powertrain components.



E47714

Bias springs within the transmission provide a positive return of the gear lever to the neutral position with selection of 1st/2nd, 5th/6th and reverse gears being against bias spring pressure. Spring-loaded detents on the selector rod and x-gate butterfly within the transmission, provide positive gear and neutral selection.

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## Gearshift Lever

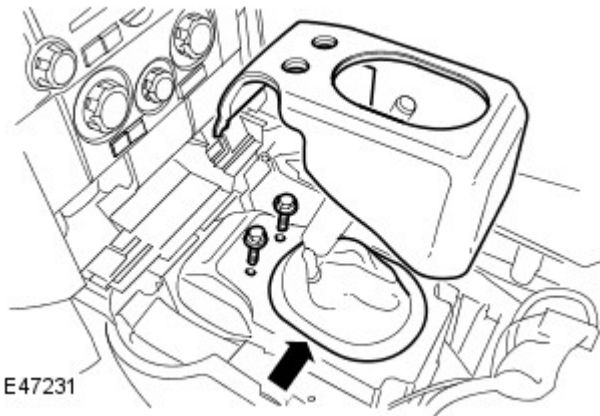
Removal and Installation

### Removal

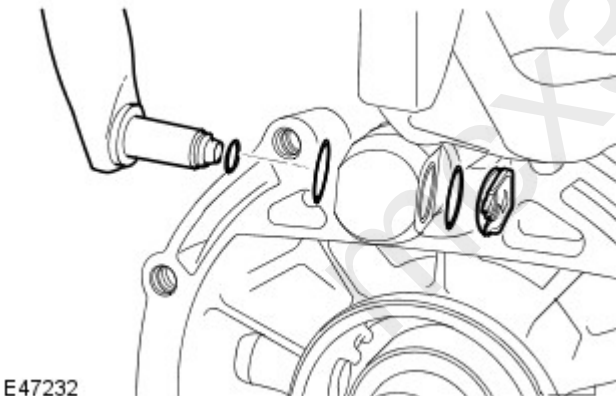
1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

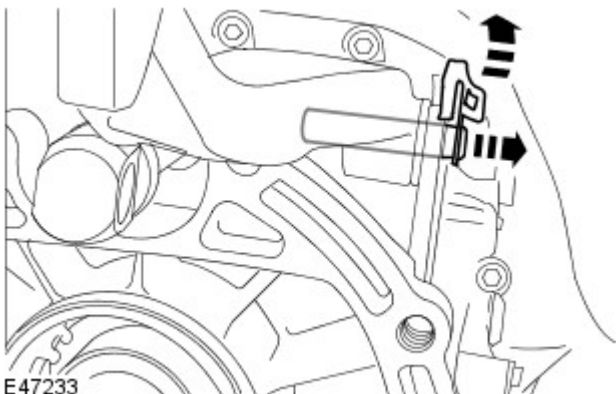
2. Remove the floor console upper trim panel.  
For additional information, refer to: [Floor Console Upper Section](#) (501-12 Instrument Panel and Console, Removal and Installation).
3. Remove the transfer case.  
For additional information, refer to: [Transfer Case - TDV6 2.7L Diesel](#) (308-07B Transfer Case, Removal).
4. Release the gearshift mounting bracket.
  - Remove the acoustic pad.
  - Release the gaiter.
  - Remove the 2 bolts.



5. Release the gearshift rod.
  - Remove the clip.
  - Remove and discard the O-ring seals.



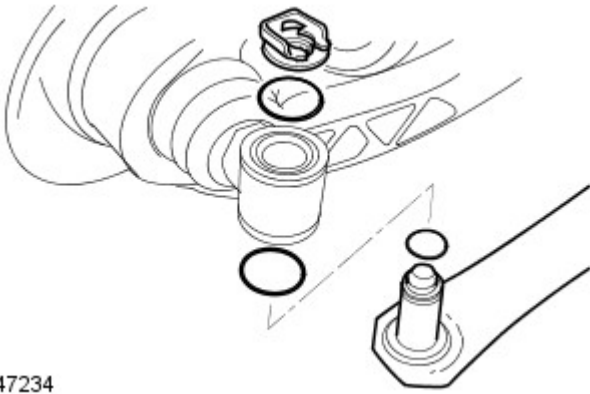
6. Remove the gearshift mechanism.
  - Release the clip.
  - Remove and discard the pin.



**7. NOTE:** Do not disassemble further if the component is removed for access only.

Remove the gearshift rod.

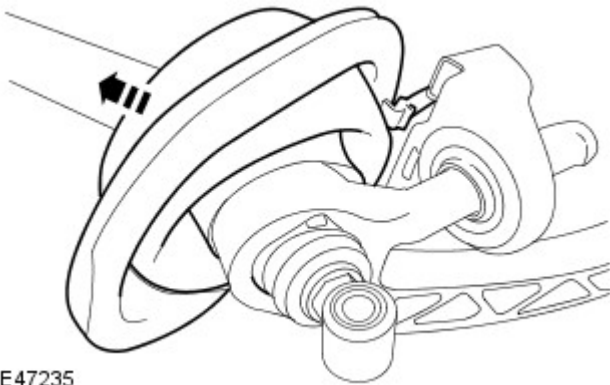
- Remove and discard the clip.
- Remove and discard the O-ring seals.



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**8.** Remove the gaiter.

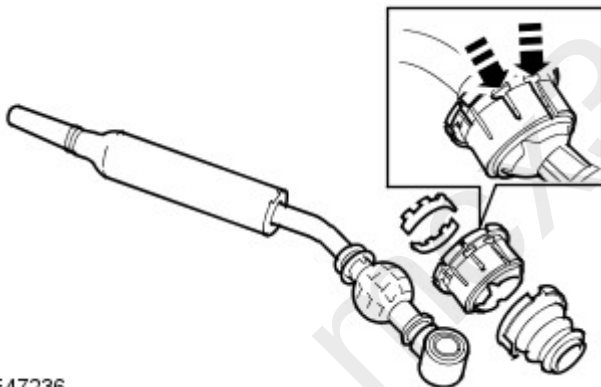
- Release the gaiter from the gearshift lever ball socket.



E47235

**9.** Remove the gearshift lever.

- Release the gearshift lever ball socket from the steady rod.



E47236

**10.** Remove the gearshift lever ball socket.

- Remove the dust seal.
- Remove the 2 clips.

## Installation

**1.** Install the gearshift lever ball socket.

- Clean the components.
- Lubricate the components.
- Install the 2 clips.
- Install the dust seal.

**2.** Install the gearshift lever.

- Secure the gearshift lever ball socket.

**3.** Install the gearshift lever gaiter.

- Install the gaiter to the gearshift lever and ball socket.
4. Install the gearshift rod to the lever.
    - Clean the components.
    - Lubricate the components.
    - Install new O-ring seals.
    - Install the new clip.
  5. Install the gearshift mechanism.
    - Clean the components.
    - Lubricate the components.
    - Install the new pin.
    - Secure the clip.
  6. Install the gearshift rod.
    - Clean the components.
    - Lubricate the components.
    - Install new O-ring seals.
    - Install the clip.
  7. Install the gearshift mechanism mounting bracket.
    - Tighten the bolts to 25 Nm (18 lb.ft).
    - Install the gearshift lever gaiter.
    - Install the acoustic pad.
  8. Install the transfer case.  
For additional information, refer to: [Transfer Case - TDV6 2.7L Diesel](#) (308-07B Transfer Case, Removal).
  9. Install the floor console upper trim panel.  
For additional information, refer to: [Floor Console Upper Section](#) (501-12 Instrument Panel and Console, Removal and Installation).