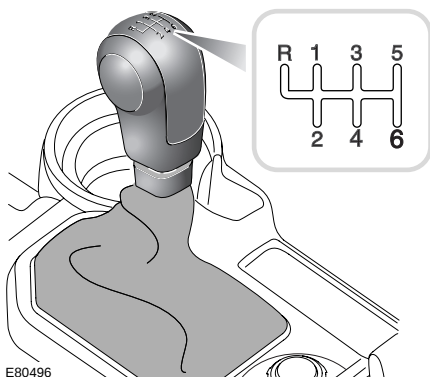


Transmission

MANUAL TRANSMISSION

CAUTION

- ! Selection of reverse gear is prevented when the vehicle is travelling in excess of 24 km/h (15 mph). Never attempt to engage gear while the vehicle is in forward motion. This may result in serious transmission damage and costly repairs.



When the gearbox is in neutral, the gear lever is spring-loaded to lie naturally between **3** and **4** gear positions. Extra pressure will be needed to move across to engage reverse gear.

AUTOMATIC TRANSMISSION

WARNINGS

- ! Do not leave children unattended in the vehicle, especially with the keys in the starter switch.

- ! Park **P** should be engaged and the park brake applied when the vehicle is stationary. The vehicle can move unexpectedly with any other gear position selected, which may result in death or serious injuries to people or animals outside of the vehicle.

WARNINGS

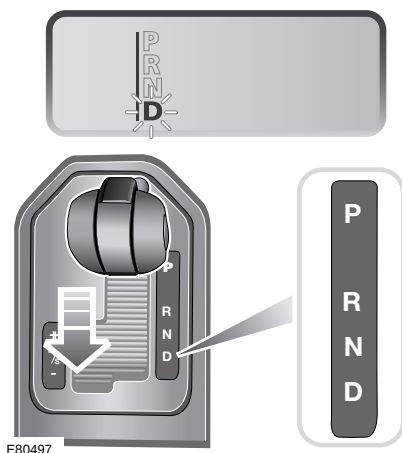
- ! Always select **P** and turn the starter switch to position **0** before leaving the vehicle.

Selector lever positions

CAUTIONS

- ! Never select Park **P** position while the vehicle is in motion. Doing so may cause serious damage to the transmission.
- ! Never select Reverse **R** position while the vehicle is in forward motion. Doing so may cause serious damage to the transmission.
- ! Never select a forward gear while the vehicle is reversing. Doing so may cause serious damage to the transmission.
- ! Do not rev the engine or allow it to run above normal idle speed while selecting **D** or **R**, or while the vehicle is stationary with any gear selected.
- ! Do not allow the vehicle to remain stationary for any length of time with a gear selected and the engine running. Always select **P** or **N** if the engine is to idle for a prolonged period.

Transmission



An illuminated indicator on the selector panel and a number or letter in the instrument pack display identify the selected gear.

P - Park

This position locks the transmission and should be selected before switching the engine off. Ensure that the vehicle is stationary, with the electric parking brake applied, before selecting **P**.

The selector release button must be pressed before moving the selector lever into **P**.

With the starter key in position **II**, press the selector release button and the foot brake to move the selector lever out of **P**.

Note: The selector lever cannot be moved out of **P** unless the starter keys is in position **II**.

R - Reverse

Before selecting **R** ensure that the vehicle is stationary, with the brakes applied. The selector release button must be pressed before moving the selector lever into Reverse.

N - Neutral

Select **N** when the vehicle is stationary and the engine is required to idle for a period. The electric parking brake must be applied.

If the vehicle remains stationary, the selector lever becomes locked in **N** and it is necessary to depress the brake pedal and press the selector release button in order to move the selector lever.

D - Drive

Before selecting drive ensure that the brakes are applied. Select **D** for all normal driving; automatic gear changing occurs on all forward gears, according to road speed and accelerator position.

Kick-down in automatic mode

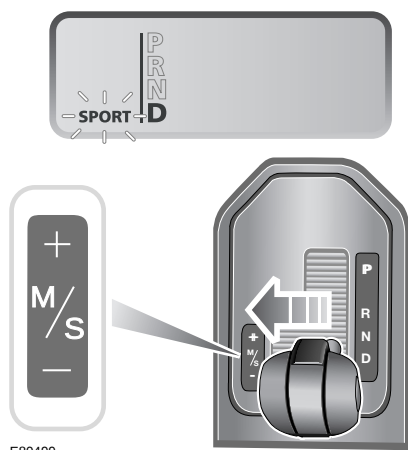
Press the accelerator pedal to the full extent of its travel, a click will be felt through the accelerator pedal. Up to a certain speed, this will cause an immediate downshift to the lowest appropriate gear, followed by rapid acceleration. Once the pedal is relaxed, normal gear change speeds will resume, dependent upon road speed and accelerator pedal position.

Note: Moderate accelerator pressure may also result in a downshift in the transmission, depending on vehicle speed.

Sport mode

In Sport mode the transmission will stay in the lower gears for longer.

Transmission



E80499

To select Sport mode, move the gear lever from the **D** position towards the left hand side of the vehicle. The word **SPORT** will appear in the instrument pack display and the LED to the side of the selector lever illuminates.

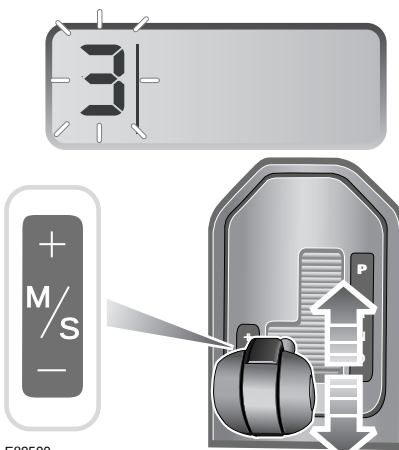
Sport mode can be deselected at any time, by returning the lever to the **D** position.

To return to Sport mode after CommandShift has been selected move the selector into the **D** position. Then move it back into Sport mode.

Note: On vehicles fitted with the terrain response system, Sport mode is only available when the Terrain Response General program is selected.

CommandShift™

CommandShift gear selection can be used as an alternative to fully automatic transmission and is particularly effective when rapid acceleration or engine braking are required.



E80500

1. With **D** selected, move the gear selector from the **D** position towards the left-hand side of the vehicle.
2. The transmission then automatically selects the ratio most appropriate to the vehicle's road speed and accelerator position. Move the selector forward (+) or backward (-) to manually select a higher or lower gear. **TRANSMISSION COMMANDSHIFT SELECTED** appears in the message centre.
3. Each forward (+) movement of the selector lever will change the transmission to a higher gear, while rearward (-) movement will change to a lower gear. The selected gear will be indicated in the instrument pack display.
4. To deselect CommandShift, move the selector lever back to the **D** position.

Note: If a Terrain Response special program is active, the automatic transmission will go straight into CommandShift when the lever is moved to the Sport/CommandShift position.

Transmission

CommandShift in High range

If CommandShift is selected in high range, gear **1** must be selected to move off from stationary. Normal sequential gear changing can be utilised once the vehicle is moving.

CommandShift in Low range

If CommandShift is selected in low range, the vehicle can move off from stationary in gears **1**, **2** or **3**.

Kick-down in CommandShift

When in CommandShift, kick-down overrides the manual gear selection, to provide increased acceleration.

In high range, with CommandShift selected, kick-down will cause a downshift to the lowest gear possible for the current speed.

Electronically selected automatic modes

In automatic mode or Sport mode (not available in CommandShift), the gear change points will adjust to suit a variety of driving conditions.

Hill ascent, trailer and high altitude

The lower gears are engaged for longer, to minimise gear changing during hill ascents or towing. This also helps reduce the impact of reduced engine torque at high altitudes.

Hill descent

A low gear will be selected to provide maximum engine braking.

High temperature

The transmission will select a gear change pattern designed to aid the cooling process.

Transmission fault

If the transmission develops a fault, **F** is displayed in the gear position display and only limited gears are available. Seek immediate assistance from your Land Rover Dealer/ Authorised Repairer.

Messages

The following messages could appear in the message centre. Market criteria mean that some messages will not apply to your vehicle and will therefore not appear.

Message	Meaning	What to do?
TRANSMISSION FAULT	Advises driver that automatic transmission has a fault.	Seek qualified assistance immediately.
TRANSMISSION FAULT AND OVERHEAT	Advises driver that an automatic transmission fault has occurred and the temperature is too high.	Seek qualified assistance immediately.
TRANSMISSION FAULT LIMITED GEARS AVAILABLE	Advises driver that automatic transmission has a fault and performance may be affected.	Seek qualified assistance immediately.

Transmission

TRANSFER GEARBOX

CAUTION

⚠ Do not use auxiliary equipment, such as roller generators, that are driven by only one or two wheels of the vehicle, as they will cause failure of the transfer gearbox.



The transfer gearbox allows selection of high or low range gears.

HIGH range (Hi)

Hi should be used for all normal road driving and also for off-road driving across dry, level terrain.

LOW range (Lo)

Lo should only be used in situations where low speed manoeuvring is necessary.

Also use **Lo** for more extreme off-road conditions. Do not attempt to use the **Lo** for normal road driving.

Range changing

The recommended method of changing range is with the vehicle stationary. For vehicles equipped with a message centre, the messages displayed will assist the experienced driver in carrying out a range change on-the-move.

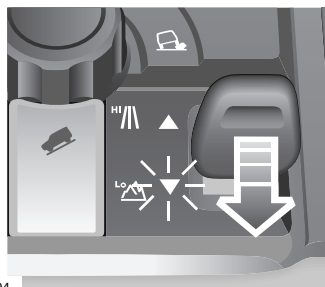
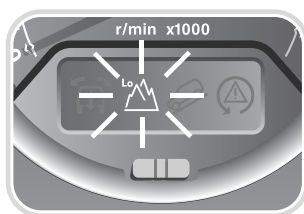
Range change indicators

In **Hi**, the **Hi** range indicator lamp at the switch is illuminated.



In **Lo**, the green warning indicator in the instrument pack and the **Lo** range indicator lamp at the switch are illuminated.

Hi to Lo change illustrated



While a range change is in progress, the range indicator lamps will flash as follows:

Hi to Lo change

- The **Lo** range lamp and indicator flash during the change and then illuminate constantly.
- The **Hi** range lamp extinguishes when the change is complete.
- A warning chime will sound and **LOW RANGE ENGAGED** is briefly displayed in the message centre.

Lo to Hi change

- The **Hi** range lamp and the **Lo** range indicator both flash during the change.

Transmission

- The **Hi** range lamp illuminates constantly when the change is complete.
- **Lo** range indicator extinguishes when the change is complete.
- A warning chime will sound and **HIGH RANGE ENGAGED** is briefly displayed in the message centre.

Stationary range changing

With the vehicle stationary, select neutral.

Move the transfer gear switch towards the range required and release. The switch returns to the default position and range change status will be confirmed after several seconds.

Range changing on the move

***Note:** If the vehicle speed is too high when a range change is requested, a warning chime sounds and **SPEED TOO HIGH FOR RANGE CHANGE** appears in the message centre.*

Automatic Transmission - High to Low

1. With the vehicle slowing down and travelling at between 40 km/h (24 mph) and 3 km/h (2 mph) select **N**.
2. If **N** is not selected before using the transfer gear switch, the message **SELECT NEUTRAL FOR RANGE CHANGE** is displayed and a warning chime sounds.
3. Pull the transfer gear switch rearwards to the **Lo** position and release.
4. The switch returns to the default position and range change status will be confirmed after several seconds. A drive gear cannot be selected until the range change is complete.

Manual transmission - High to Low

1. With the vehicle slowing down and travelling at between 20 km/h (12 mph) and 3 km/h (2 mph) depress the clutch and select neutral.
2. If neutral is not selected before using the transfer gear switch, the message **SELECT NEUTRAL FOR RANGE CHANGE** is displayed and a warning chime sounds.
3. Pull the transfer gear switch rearwards to the **Lo** position and release.
4. The switch returns to the default position and range change status will be confirmed after several seconds. If a gear is selected before the range change is complete, the change will cancel and may leave the transfer box in neutral. An audible warning will be given.
5. After a failed range change, it will be necessary to reselect neutral in the gearbox and repeat the range change procedure.

Changing from Low to High

With the vehicle travelling no faster than 60 km/h (38 mph), select **N** or neutral. Press the front of the transfer gear switch to the **Hi** position and release it.

Indication of the range change status is the same as for the stationary method.

Now select **D** or the most appropriate manual gear for the vehicle speed.

Transmission

Transmission warning indicators and messages

If a fault occurs within the transmission, either a lamp will illuminate in the instrument pack or a message will be displayed in the main message centre.



The transmission warning lamp illuminates amber when the operation of the transmission is limited. Seek qualified assistance as soon as possible.

The transmission warning lamp illuminates red when the transmission is unable to function properly. Stop as soon as safety permits and turn off the engine. Leave the vehicle with the starter switch turned off for five minutes and then turn the starter switch back on. If the red light is still on, do not use the vehicle.

Note: *This warning indicator is not fitted to vehicles with a message centre.*



The transmission temperature warning lamp illuminates red when the transmission oil temperature reaches a pre-determined limit. Stop the vehicle where safety permits and switch off the engine. Allow the transmission to cool for one hour before continuing.

Note: *This warning indicator is not fitted to vehicles with a message centre.*

Transmission

Messages

The following messages could appear in the message centre. Market criteria mean that some messages will not apply to your vehicle and will therefore not appear.

Message	Meaning	What to do?
TRANSMISSION FAULT STOP SAFELY	Advises driver that a fault has occurred with the electronic rear differential.	Stop the vehicle as soon as it is safe to do so.
TRANSMISSION FAULT TRACTION REDUCED	Advises driver that a fault has occurred with the transfer box control system.	Reduce speed and seek qualified assistance immediately. Off-road performance will be reduced.
TRANSMISSION OVERHEAT SLOW DOWN	Rear differential temperature has reached or is approaching the overheat threshold.	Reduce speed and seek qualified assistance immediately.
TRANSMISSION RANGE CHANGE NOT AVAILABLE	Advises driver that a fault has occurred which prevents the transfer box from changing range.	Reduce speed and seek qualified assistance immediately.
TRANSMISSION TRACTION REDUCED	Transfer box control module fault.	Reduce speed and seek qualified assistance immediately.
SELECT NEUTRAL FOR RANGE CHANGE	Alerts driver that range change will not occur until neutral is selected on the transmission.	Select neutral.
SPEED TOO HIGH FOR RANGE CHANGE	Driver has requested range change when vehicle speed is too high.	Reduce speed to 40 km/h (25mph) on automatic transmission or 20 km/h (12 mph) on manual transmission.