

## ABOUT THIS HANDBOOK

Please take the time to read all of the owner/operator literature supplied with your vehicle as soon as possible.

## IMPORTANT

*The information contained in this handbook covers all vehicle derivatives and optional equipment, some of which may not be fitted to your vehicle. Due to printing cycles, this handbook may include descriptions of options before they become generally available.*

*The vehicle options, hardware and software, are designed for the market in which the vehicle is intended for original sale. If the vehicle is registered or used in another geographical area, it may need modifications to suit local requirements. Land Rover is not responsible for the cost of any modifications. Warranty conditions may be affected.*

The information contained in this publication was correct when it went to print. Subsequent vehicle design changes may result in a supplement being added to the literature pack. Updates can also be viewed on the Land Rover internet site at; **[www.ownerinfo.landrover.com](http://www.ownerinfo.landrover.com)**.

In the interest of development, the right is reserved to change specifications, design or equipment at any time without notice and without incurring any obligations. This publication, or part thereof, may not be reproduced nor translated without our approval. Errors and omissions excepted.

## Symbols used in this handbook



**Safety warnings indicate either a procedure which must be followed precisely, or information that should be considered with great care, in order to avoid the possibility of personal injury.**



**Cautions indicate either a procedure which must be followed precisely, or information that should be considered with great care, in order to avoid the possibility of damage to your vehicle.**



**Identifies items that must be disposed of safely in order to prevent unnecessary damage to the environment.**



**Identifies features that can be adjusted, disabled or enabled by a Land Rover Dealer/Authorised Repairer.**

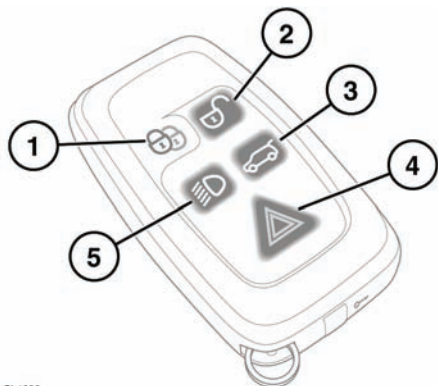
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## UNLOCKING THE VEHICLE



SL1898



**To prevent accidental operation, never leave the Smart Key in the vehicle if children or animals are also left in the vehicle.**

**Note:** There are two designs of Smart Key, refer to the information which is relevant to the design of Smart Key supplied with the vehicle.

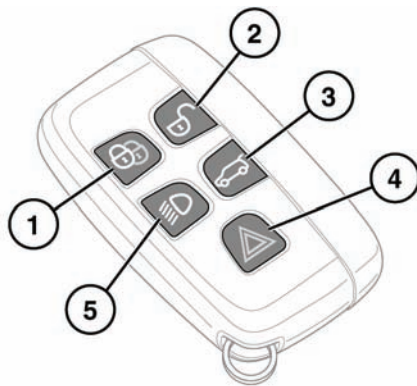
**Note:** The operational range of the Smart Key will vary considerably depending on atmospheric conditions and interference from other transmitting devices.

**Note:** If any door or the tailgate is unlocked 10 times within a short period, the latch is disabled for approximately one minute.

The vehicle is supplied with two Smart Keys (of the same design). The Smart Keys act as remote controls for the locking and alarm system, and allow the vehicle to be locked, unlocked and driven without the use of a conventional key. See **LOCKING AND ARMING THE ALARM, 10**. See **KEYLESS STARTING, 80**.

### 1. Lock.

- Single lock: Press once to lock the vehicle.



- Double lock: Press twice within 3 seconds. See **DOUBLE LOCKING AND FULL ALARM, 10**.

### 2. Unlock.

- Press briefly to unlock the vehicle and deactivate the alarm. The hazard warning lamps will flash twice to indicate that the vehicle is unlocked and the alarm has been deactivated. The interior lamps will illuminate to assist entry to the vehicle. See **SINGLE/MULTI-POINT ENTRY, 6**.

### 3. Tailgate release.

- Press briefly to release the tailgate. The vehicle security system will remain active while the tailgate is open, but intrusion and inclination sensing systems will be disabled. On closing of the tailgate, the hazard warning lamps will flash after a few seconds to confirm the full alarm system has been reactivated (if previously armed). See **OPENING THE TAILGATE, 7**.

## 4. Panic alarm.

- Press and hold for 3 seconds (or press 3 times within 3 seconds) to activate the horn and the hazard lamps.

**Note:** The horn and hazard lamps will switch off automatically after approximately 2 minutes and 45 seconds.

- Once active for more than 5 seconds, the alarm can be cancelled by pressing the button and holding for 3 seconds (or pressing 3 times within 3 seconds).
- The emergency alarm will also be cancelled if a valid smart key is present when the START/STOP button is pressed.

## 5. Approach lighting.

- When approaching the vehicle during darkness, press to switch on the approach illumination. Press again to turn the approach lamps off.
- The approach illumination period set at the factory is 30 seconds. This delay period may be configured to provide illumination lasting between 0 and 180 seconds. See **VEHICLE**

### INFORMATION AND SETTINGS MENU, 52

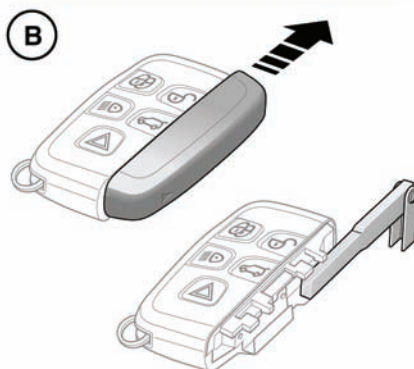
**Note:** In some markets a second press of the button will turn on the headlamps and reversing lamps. A third press will be required to turn the lamps off.

**Note:** A replacement Smart Key can only be obtained from your Land Rover Dealer/ Authorised Repairer. The Dealer will require proof of ownership.

Notify your Dealer immediately if a Smart Key is lost or stolen.

**Note:** The fuel filler flap can only be opened when the vehicle is unlocked.

## EMERGENCY KEY

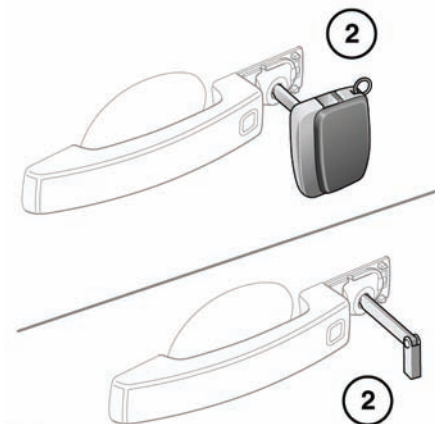
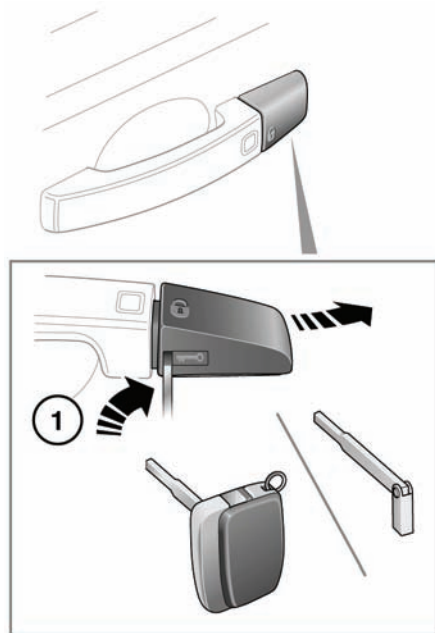


SL1929

**Note:** There are two designs of Smart Key, refer to the information which is relevant to the design of Smart Key supplied with the vehicle.

- Press emergency key release button and slide out side cover to release the key.
- Slide and remove cover to expose the emergency key.

## Entering the vehicle



SL1930

1. Insert the key blade into the slot at the base of the door lock cover and gently lever the key blade upwards.

Carefully twist the key blade, to lever the cover off the retaining clips.

2. Insert the key blade into the exposed lock and turn to operate.

### AUTOMATIC RELOCKING

If a door or the tailgate are not opened within 1 minute of unlocking the vehicle, doors will lock again automatically.

### SINGLE/MULTI-POINT ENTRY

When you press the unlock button, your vehicle will unlock in one of two ways:

1. Single Point Entry: Unlocks the driver's door and fuel filler flap only. A second press is required to unlock the remaining doors and the tailgate.
2. Multi Point Entry: Unlocks all doors, fuel filler flap and the tailgate on the first press.

Single point entry can be disabled on individual Smart Keys by unlocking the vehicle then simultaneously pressing and holding the lock and unlock buttons for 3 seconds. The vehicle will lock and then unlock and the hazard warning lights will flash twice to confirm the change. You can now unlock all doors with a single press. Repeating the procedure will re-enable Single point entry.

This feature may also be set via the settings menu. See **VEHICLE INFORMATION AND SETTINGS MENU, 52**.

### GLOBAL OPENING

Press and hold the Smart Key unlock button for 3 seconds. The alarm will disarm, all doors and the luggage compartment will unlock and all the windows will open.

Press any button on the Smart Key to cancel the operation.

## SMART KEY CHECK

Should the last door be closed without a Smart Key present inside the vehicle, the message **Smart Key Not Found - Refer to handbook** will be displayed for 4 seconds in the vehicle message centre, to alert the driver to the absence of a Smart Key. See **KEYLESS START BACKUP**, 81.

## STEERING COLUMN LOCK

⚠ During vehicle recovery, the Smart Key must remain inside the vehicle, so that the steering column remains unlocked.

Your vehicle is fitted with an electronic steering column lock. The column unlocks when a Smart Key is detected inside the vehicle.

Any malfunction of the steering column lock will be indicated by the message **STEERING COLUMN LOCKED** being displayed in the message centre. If this occurs:

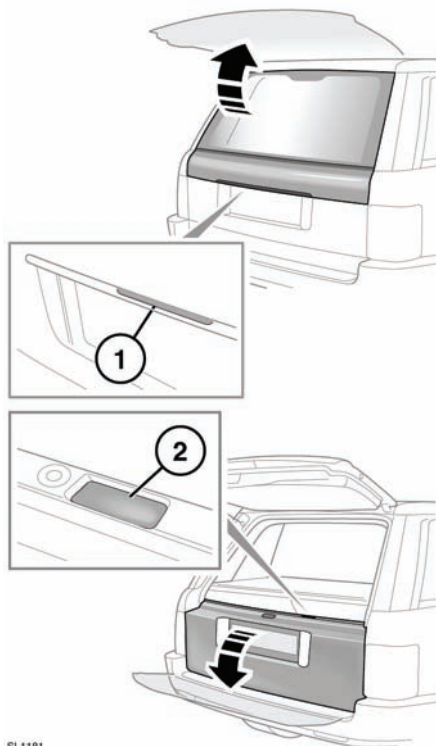
1. Lock and then unlock the vehicle using the Smart Key.
2. Try again to unlock the steering column lock, by turning the steering wheel gently to the left and right.
3. If the problem persists, seek qualified assistance immediately.

## OPENING THE TAILGATE



SL1954

Press to release the tailgate.



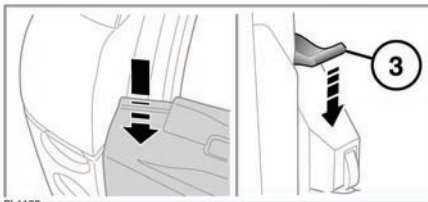
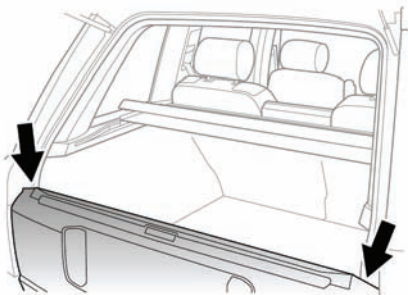
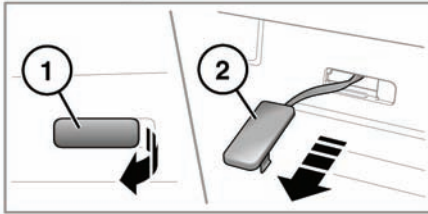
SL1181

1. With the vehicle unlocked, press the touchpad on the underside of the handle to release the upper tailgate.
2. With the upper tailgate open, press the touchpad on the lower tailgate waist moulding to release the lower tailgate.

## Entering the vehicle

### TAILGATE EMERGENCY MANUAL OPERATION

3. Push down on the two hidden catches to release the lower tailgate.



SL 1188

If the battery has been disconnected or has discharged, the tailgate can be opened manually.

1. Fold the rear loadspace cover and lever out the plastic tab.
2. Pull the tab to release the upper tailgate.

## CHANGING THE SMART KEY BATTERY

**Note:** There are two designs of Smart Key, refer to the information which is relevant to the design of Smart Key supplied with the vehicle.

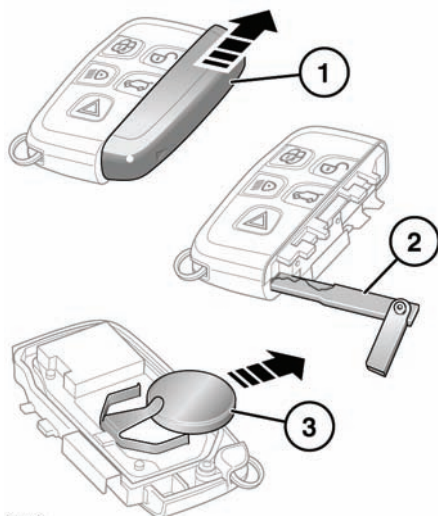
When the battery needs renewing, there will be a significant decrease in the effective range and the message **SMART KEY BATTERY LOW** will be displayed in the message centre.



SL1190

To renew the battery:

1. Press and hold the release button.
2. Open the side cover.
3. Remove the battery drawer and remove the battery.
4. Fit a new CR2032 type battery (available from your Dealer/Authorised Repairer), with the positive (+) side upwards.



SL1899

To renew the battery:

1. Slide the cover in the direction of the arrow until a click is heard. Remove the cover.
2. Use the emergency key blade to separate the Smart key body.
3. Fit a new CR2032 type battery (available from your Dealer/Authorised Repairer), with the positive (+) side upwards.

**Note:** Avoid touching the new battery, as moisture/oil from fingers can reduce battery life and corrode the contacts.

Refit the parts in reverse order, ensuring that they click securely into place.



**Battery disposal:** Used batteries must be disposed of correctly, as they contain harmful substances. Seek advice on disposal from your Dealer and/or your local authority.



## LOCKING AND ARMING THE ALARM



No modifications or additions should be made to the anti-theft system. Such changes could cause the system to malfunction.

Press the lock button on the Smart Key briefly, to single lock the vehicle and activate the perimeter alarm. The hazard warning lamps will flash to confirm. A second press within three seconds will double lock the vehicle and activate the full alarm system. The hazard warning lamps will flash a second time to confirm the enhanced lock/alarm state.

**Note:** *The vehicle will not lock if a door, the luggage compartment or the bonnet aperture is open.*

**Note:** *The fuel filler flap can only be opened when the vehicle is unlocked.*

The vehicle can be locked in two ways.

## SINGLE LOCKING AND PERIMETER ALARM

Single locking secures the vehicle and prevents the doors and fuel flap from being opened from outside. The doors may still be unlocked and opened from inside the vehicle. In this state, only the perimeter alarm is activated. The perimeter alarm will sound if:

- The bonnet, tailgate or a door are opened.
- The vehicle battery is disconnected.
- An attempt is made to disconnect the alarm siren.

**Note:** *This setting should be used in circumstances such as travelling on a ferry, when pets are to be left in the vehicle, or if a window must be left open etc.*

## DOUBLE LOCKING AND FULL ALARM



**Never double lock the vehicle with people, children, or pets inside. In the event of an emergency they would be unable to escape and the emergency services would be unable to release them quickly.**

Double locking secures the vehicle and prevents the doors being opened from inside or outside of the vehicle. The doors cannot be unlocked or opened from inside the vehicle when double locked.

This provides additional security if the vehicle is left unattended. The vehicle cannot be opened by breaking a window and operating the door locks from inside.

Additionally, double locking also activates the full alarm system. Once activated the alarm system will sound if:

- The bonnet, tailgate or a door are opened.
- Movement is detected within the vehicle interior.
- A window, front or rear windscreen or sunroof glass are broken.
- The vehicle is raised or tilted.
- The vehicle battery is disconnected.
- An attempt is made to disconnect the alarm system.

**Note:** *In this state, an open window or sunroof will cause the alarm to sound due to the movement of air currents. For this reason, ensure all windows and the sunroof are fully closed before double locking the vehicle.*

### INTERIOR PROTECTION

The interior protection feature of the full alarm system may be temporarily disabled via the Vehicle Settings menu. See **VEHICLE INFORMATION AND SETTINGS MENU, 52.**

***Note:** Once enabled, this setting will activate the next time the vehicle is double locked with the Smart Key.*

### ALARM INDICATOR

An indicator in the instrument panel will flash whenever the alarm is active.

### GLOBAL CLOSING



**Ensure that no children, pets, or obstructions are in any open aperture before operating global closing. Safety mechanisms are in place to prevent serious injury, however injuries can still occur.**

Press and hold the Smart Key lock button for 3 seconds. The alarm will be activated, all doors and the luggage compartment will lock and, after 3 seconds all open windows will be closed.

Press any button on the Smart Key to cancel the operation.

### DRIVE-AWAY LOCKING

Drive away locking automatically locks all the doors when the vehicle is in motion. This feature can be enabled/disabled via the Vehicle settings menu. See **VEHICLE INFORMATION AND SETTINGS MENU, 52.**

***Note:** Pressing the lock or unlock button on the Smart Key will override drive away locking for the current journey.*

### MISLOCK

When attempting to lock the vehicle with the Smart Key, if one of the doors, the bonnet or the luggage compartment is open, the vehicle will not lock and two tones will sound. Check that all doors, the bonnet and the luggage compartment are closed properly and lock the vehicle again.

### DISARMING WHEN THE UNLOCK BUTTON FAILS TO WORK

If the unlock button fails to operate, the vehicle can still be unlocked and the alarm disabled. To unlock the vehicle:-

1. Unlock the drivers door using the key blade.
2. Position the Smart Key underneath the steering column. See **KEYLESS START BACKUP, 81.**

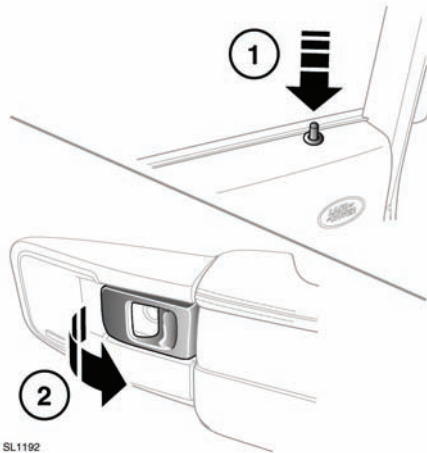
***Note:** When the driver's door is unlocked using the key, the alarm will sound until the Smart Key is positioned correctly.*

### DEACTIVATING THE ALARM WHEN TRIGGERED

If the alarm has been triggered it can be deactivated by pressing the Smart Key unlock button, or by positioning the Smart Key underneath the steering column. See **KEYLESS START BACKUP, 81.**

# Interior locks

## DOOR BUTTONS AND LEVERS

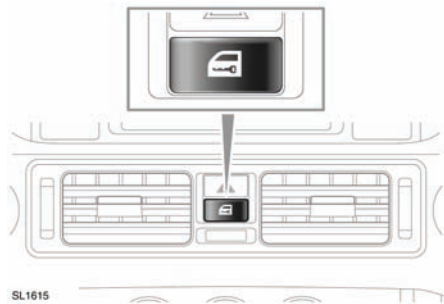


1. Press the button on the selected door to lock the door.
2. Pull the lever once to unlock the door; pull once more to open the door.

**Note:** If the vehicle was locked using the Smart Key, operating the interior door release lever will only unlock the door. If the door is opened the alarm will sound.

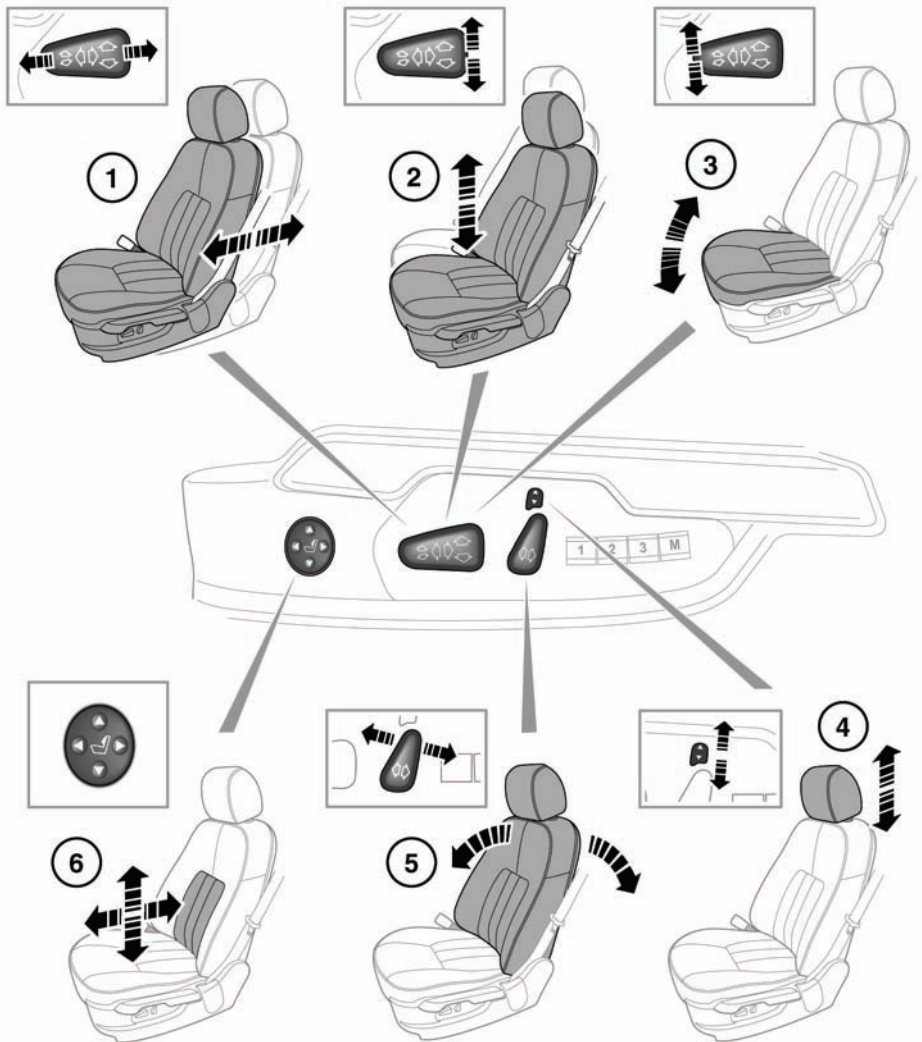
**Note:** If the vehicle has been double locked, the interior door release levers will not operate. The vehicle must be unlocked using the Smart Key.

## MASTER LOCKING SWITCH



Press to lock or unlock all doors and luggage compartment.

## ELECTRIC SEATS



SL1004



**Do not adjust the seat while the vehicle is moving. Doing so could cause loss of vehicle control and personal injury.**


1. Forward and back adjustment.
2. Height adjustment.
3. Cushion angle adjustment.

## Front seats

4. Headrest adjustment.
5. Backrest adjustment.
6. Lumbar support adjustment.

To adjust the seats, the Smart Key must be in the vehicle and the ignition switched on.

### STALLED ADJUSTMENT

-  If seat movement stops unexpectedly during adjustment, check for and remove any obstructions.

Once any obstructions have been removed, the seat adjustment mechanism can be reset as follows:

Operate the button again, to continue the stalled adjustment and hold in that position for 2 seconds. When seat movement resumes, hold the button until the end of travel in that direction has been reached. Seat adjustment can now be carried out as normal.

**Note:** If no obstructions can be seen, but normal adjustment cannot be carried out without stalling, contact your Land Rover Dealer/Approved Repairer.

### SITTING IN THE CORRECT POSITION



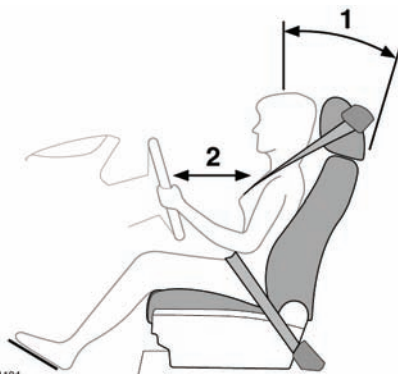
**The driver and front seat passenger must not ride with the seat fully reclined.**



**Do not adjust the seat while the vehicle is moving.**

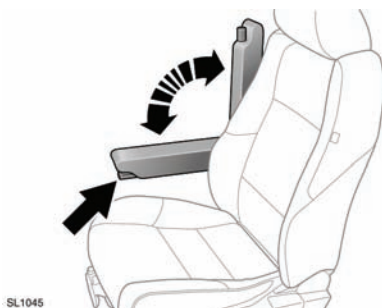
The seat, head restraint, seat belt and airbags, all contribute to the protection of the user.

Correct use of these components will give you greater protection. Therefore, you should always observe the following points:



1. Sit in an upright position with the base of your spine as far back as possible and the seatback reclined no more than 30 degrees.
  2. Do not move the driver's seat too close to the steering wheel. Ideally, a minimum distance of 254 mm (10 inches) is recommended between the breastbone and the steering wheel airbag cover. Hold the steering wheel in the correct position, with your arms slightly bent.
- Adjust the head restraint so that the top of the head restraint is above the centre line of the head.
  - Position the seat belt so that it is mid-way between your neck and your shoulder. Fit the strap tightly across your hips, not across your stomach.
  - Ensure that your driving position is comfortable and enables you to maintain full control of the vehicle.

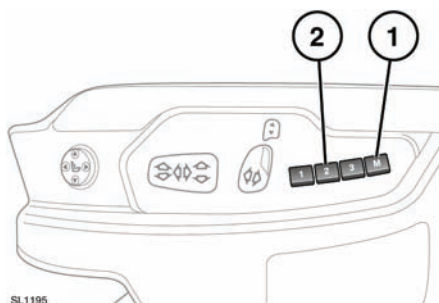
## FOLDING ARMREST



If fitted, the folding armrest may be stowed by moving to the vertical position. Use the adjuster wheel (arrowed) to set the required height.

## DRIVING POSITION MEMORY

Once you have adjusted the power operated driver's seat, steering column and exterior mirrors for your ideal driving position, the vehicle can memorise these settings for future use. See **STEERING COLUMN, 21**. See **ELECTRIC EXTERIOR MIRRORS, 46**.



1. Press the memory store (M) button to activate the memory function. The switch indicator will illuminate.

2. Press one of the preset buttons within 5 seconds to memorise the current settings. **MEMORY (1, 2 or 3) SETTINGS SAVED** will be displayed on the message centre, accompanied by an audible chime to confirm the settings have been memorised.
3. To recall a stored position press the relevant preset button. **MEMORY (1, 2 or 3) RECALLED** will be displayed in the message centre.

A seat position will only be memorised during the 5 second active period.

Any existing settings will be over-written when programming a memory position.

## ENTRY AND EXIT MODE

Entry and exit mode provides automatic movement of the steering column and driver's seat making it easier to enter or exit the vehicle. When enabled, on opening the driver's door the system will raise the steering column to the highest position and lower the driver's seat to the lowest position assisting with exit from the vehicle.

When the driver's door is closed and the ignition turned on, the system will return the driver's seat and steering column to the previous position.

This feature is enabled by setting the steering column adjustment switch to the AUTO position. See **STEERING COLUMN, 21**.

**Note:** If the driver's seat or steering column are adjusted during entry or exit operation, automatic movement will stop.

### HEAD RESTRAINTS



Adjust the head restraint so that the top of the head restraint is above the centre line of the head. An incorrectly adjusted head restraint increases the risk of death or serious injury in the event of a collision.



It is possible to swivel the head restraint forwards or backwards. For greater protection in the event of a collision, the head restraint should be adjusted so that it is as close to the back of the head as is practical.



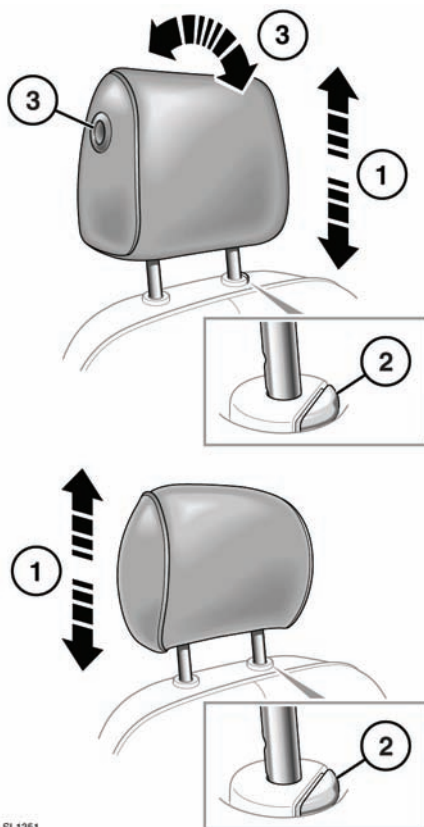
Do not drive, or carry passengers with the head restraints removed from occupied seats. The absence of a correctly adjusted head restraint increases the risk of neck injury in the event of a collision.



Never adjust the head restraints while the vehicle is in motion.



Always store a removed head restraint securely.



SL1351

1. To raise, pull the restraint upwards.
2. To lower, depress the locking button and push down on the restraint.
3. To adjust the angle, press the locking button and move the restraint to the desired position.

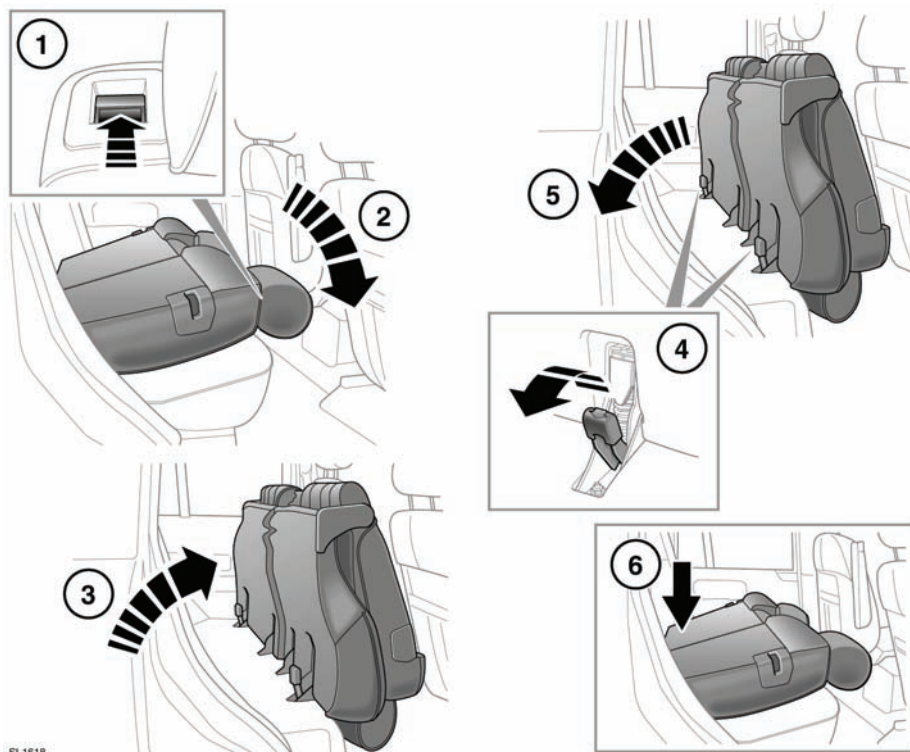
Manual head restraints may be removed, if required (e.g. to fit larger child seats). Raise the head restraint to its uppermost position and press the locking collar. Lift the restraint out of the seatback.

Ensure the head restraint is refitted before the seat is used by a passenger.

To refit the head restraint, ensure it is facing the correct direction, insert the stems of the head restraint into the sockets and push it downwards until at least the first click.



### FOLDING AND ERECTING THE REAR SEATS



SL1618



**Always ensure that objects carried within the vehicle are secured properly.**



**Never allow passengers to travel in the load space under any circumstances. All vehicle occupants should be seated correctly, and wear a seat belt at all times when the vehicle is in motion.**

The split fold rear seat can be folded completely to accommodate large loads, or partially to accommodate large loads and still retain seating for passengers.

- 1. To fold part or all of the seat:** Lift the lever on the top of the backrest.
- 2.** Fold the backrest on to the seat base.
- 3.** lift the whole assembly forward until it locks in the upright position.
- 4. To erect:** Pull the release lever rearwards.

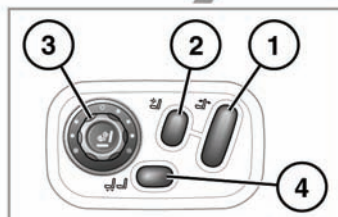
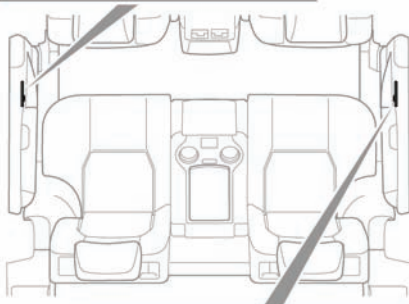
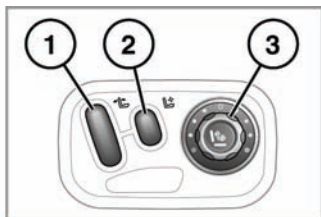
5. Push the seat assembly back on to the floor.
6. Press down on the seat where arrowed to fully engage the floor catches. The backrest can now be raised.



**Ensure that when the backrest is raised the locking mechanism is fully engaged. If the backrests are not fully locked in place, red markers will be visible around the backrest levers.**

## RECLINING REAR SEATS

**Note:** This feature will not operate if the rear window isolation switch has been activated.



SL1197

1. Seat angle adjustment.
2. Lumbar support adjustment.
3. Climate seat control (only with engine running).
  - Rotate clockwise from the **0** position to increase temperature.  
The seat heaters are thermostatically controlled and once selected will maintain a predetermined temperature.
  - Repeatedly press the centre of the control to select either the seat back or seat back and seat cushion. The relevant indicator(s) will illuminate.
  - Rotate to the **0** position to turn off.
4. Front passenger seat forward or backward adjustment.

## REAR SEAT HEAD RESTRAINTS



**Adjust the head restraint so that the top of the head restraint is above the centre line of the head. An incorrectly adjusted head restraint increases the risk of death or serious injury in the event of a collision.**

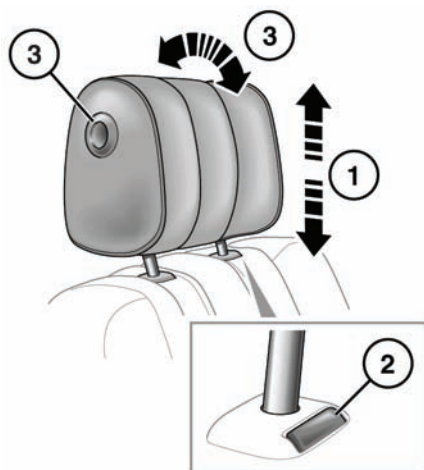


**Do not drive or carry passengers with the head restraint removed from an occupied seat. The absence of a correctly adjusted head restraint increases the risk of neck injury in the event of a collision.**



**Always store a removed restraint securely.**

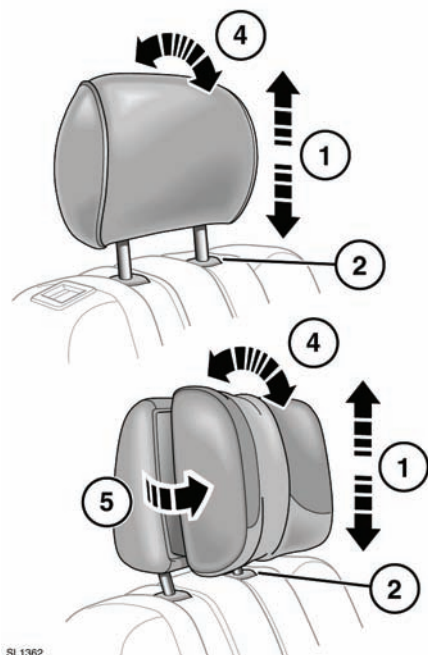
## Rear seats



2. To lower, depress the locking button and push down on the restraint.
3. To adjust the angle, press the locking button and move the restraint to the desired position.
4. Rotate the restraint to adjust the angle.
5. Pull the wing heads forward in to the first or second positions.

Head restraints may be removed, if required (e.g. to fit larger child seats). Raise the head restraint to its uppermost position and press the locking collar. Lift the restraint out of the seatback.

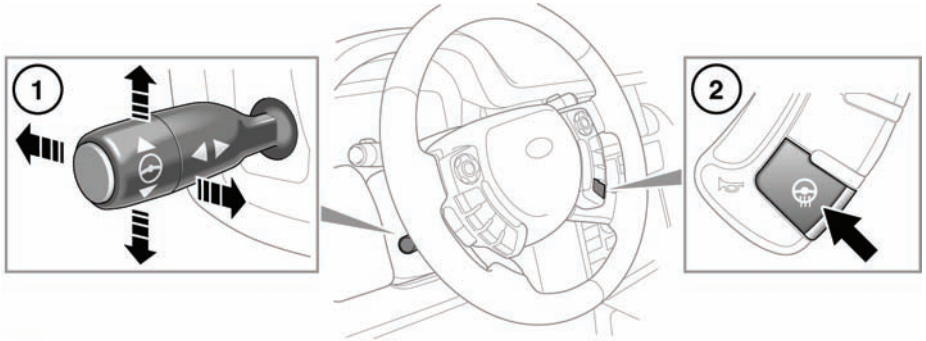
To refit a head restraint, ensure it is facing the correct direction, insert the stems of the head restraint into the sockets and push it downwards until at least the first click.



SL1362

1. To raise, pull the restraint upwards.

## STEERING COLUMN



SL1198



**Never adjust the steering column while the vehicle is in motion.**

1. **Steering column adjustment:** Move the control up or down to adjust the tilt/height.

Move the control forwards or rearwards to adjust reach.

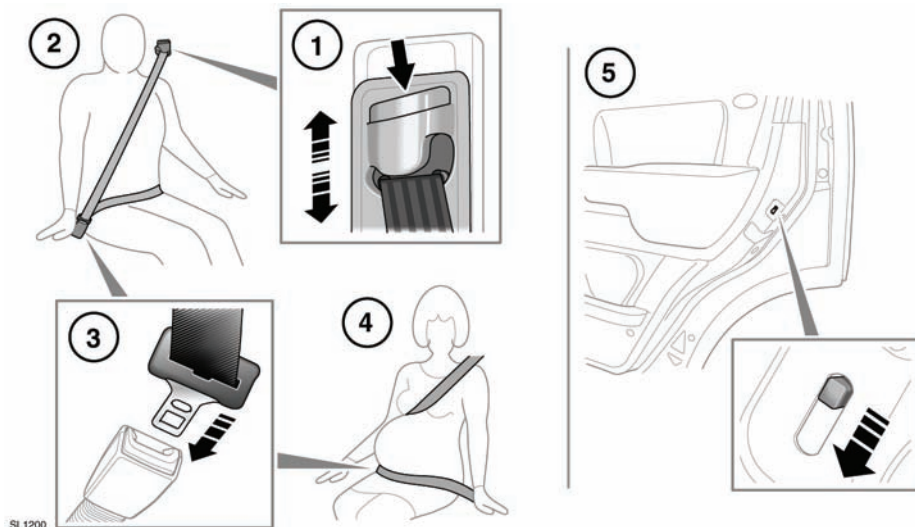
**Note:** The steering wheel position can be stored in the system's memory.

See, **DRIVING POSITION MEMORY, 15.**

2. **Heated steering wheel:** Press to operate.

When switched on the temperature is thermostatically controlled.

## USING SEATBELTS



### 1. SEAT BELT HEIGHT ADJUSTMENT:

Press to release the catch.

With the catch depressed move the mechanism slide up or down to the required height. Ensure that the locking mechanism has engaged.

When correctly positioned the seat belt should cross the collar bone at the mid-point between the neck and end of your shoulder.

Where possible, rear seat passengers should adjust their seating position to achieve the same seat belt position.



**Ensure that the height is correctly adjusted and the mechanism is locked in place before driving.**



**The use of comfort clips or devices that would create slack in the seat belt system, is not advised.**



**WARNING: No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.**

### 2. PUTTING ON A SEAT BELT:

Draw the belt out smoothly, ensure that the belt height, the seat and your position on the seat, are correct.



**WARNING: Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.**



Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.



Belts should not be worn with the straps twisted.



Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.



The occupants of the front seats should not travel with the seat back at more than 30 degrees from the upright. Doing so will reduce the protection afforded by the seat belt.



Never place anything between you and the seat belt. It can be dangerous and reduce the effectiveness of the seat belt in preventing injury.

### 3. FASTENING A SEAT BELT:

With the seat belt correctly positioned, place the metal tongue into the buckle nearest to you. Press it in until a click is heard.

To release the seat belt, press the red button.

**Note:** When releasing the seat belt it is advisable to hold the belt before pressing the release button. This will prevent the belt from retracting too quickly.

### 4. SEAT BELT USE DURING PREGNANCY:

Position the lap strap comfortably across the hips beneath the abdomen. Place the diagonal part of the seat belt between the breasts and to the side of the abdomen.



Position the seat belt correctly for the safety of the mother and unborn child. Never wear just the lap strap, and never sit on the lap strap while using just the shoulder strap. Both of these actions are extremely dangerous and may increase your risk of serious injury in the event of an accident or during emergency braking.



Never place anything between you and the seat belt in an attempt to cushion the impact in the event of an accident. It can be dangerous, and will reduce the effectiveness of the seat belt in preventing injury.



Ensure that the seat belt is not slack or twisted.

### 5. CHILD SAFETY LOCKS:

There is a locking lever on each of the rear doors. When the lever is in the down position the door is locked and cannot be opened from inside the vehicle.

## SEAT BELT SAFETY



Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water.



The belt should be replaced if webbing becomes frayed, contaminated or damaged.



It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.



If any damage, wear, cuts, defects, or impaired operation are noted with the seat belts, the vehicle should be taken to a Land Rover Dealer/Authorised Repairer for immediate attention. Do not use the vehicle if the seat belts cannot be operated correctly.



Do not carry hard, fragile, or sharp items between your person and the seat belt.



Seat belts should be worn by all vehicle occupants, for every journey no matter how short.



Never wear just the lap belt or just the shoulder belt of a lap/shoulder diagonal seat belt. Both of these actions are extremely dangerous and may increase your risk of injury.



When using seat belts to restrain items other than occupants, take care to ensure that the belts are not damaged, or exposed to sharp edges.

## SEAT BELT CHECKS

**Note:** If the vehicle is parked on an incline, the seat belt mechanism may lock. This is not a fault and the belt should be gently eased out from the upper anchorage.

The seat belts should be inspected regularly to check for fraying, cuts, wear to the webbing and the condition and security of the mechanism, buckles, adjusters and mounting points.

- With the seat belt fastened, give the webbing near the buckle a quick upward pull. The buckle must remain securely locked.

- With the seat belt unfastened, unreel the seat belt to the limit of its travel. Check that it unreels smoothly with no snatches or snags. Allow the belt to fully retract, again checking for smooth operation.
- Partially unreel the seat belt, then hold the tongue plate and give a quick forward pull. The mechanism must lock and prevent any further unreeling.

If any of the seat belts fail to meet those criteria, immediately contact your Land Rover Dealer/Authorised Repairer.

## SEAT BELT REMINDER



If the driver's seat belt is not fastened when the vehicle is in motion, a chime will be heard and the seat belt warning indicator will illuminate. The warning chime and indicator will also be activated if the front passenger seat is occupied without the seat belt being fastened.

**Note:** Objects on the front passenger seat may activate the seat belt reminder. It is recommended that any objects placed on the front passenger seat are secured using the seat belt.

## CHILD SEATS



For optimum safety, children under the age of 12 should travel in the rear of the vehicle at all times; front passenger seat travel is not recommended. However, if it is essential that a child travels in the front (not permitted in Australia), set the vehicle seat fully rearward and seat the child in an approved forward-facing child seat. Do not use a rear-facing child seat - an inflating airbag could impact with the seat and cause serious injury.





**Do not use a forward facing child seat until the child using it is above the minimum weight of 9 kg (20 lb.) and able to sit up unaided. Up to the age of two, a child's spine and neck are not sufficiently developed to avoid injury in a frontal impact.**



**Do not allow a baby or infant to be held or carried on the lap. The force of a crash can increase effective body weight by as much as thirty times, making it impossible to hold onto the child.**



**Children typically require the use of a booster seat appropriate to their age and size, thereby enabling the seat belts to be properly fitted, reducing the risk of injury in a crash. Children could be endangered in a crash if their child restraints are not properly secured in the vehicle.**



**Do not use a child seat that hooks over the seat back. This type of seat cannot be satisfactorily secured and is unlikely to be safe for your child.**

The seat belts fitted to your vehicle are designed for adults and larger children. For their safety it is very important for all infants and children under 12 years of age to be restrained in a suitable child safety seat appropriate to their age and size.

If it is essential that a child travels in the front passenger seat (and national legislation permits this), Land Rover recommends that the following preparations are made before fitting the child restraint.

- Disable the front passenger airbag.
- Adjust the front passenger seat fully rearwards.
- Adjust the lumbar support to its minimum support position.

- Adjust the seat cushion to its highest position. If cushion rake adjustment is possible, adjust it to its lowest position.
- Adjust the seat back to the fully upright position.
- Adjust the seat belt adjustable upper anchorage to its lowest position.



**Extreme hazard! Do not use a rearward facing child restraint on a seat protected by an airbag in front of it!**



SL1545



This symbol, affixed to the end of the fascia on the passenger side, warns against the use of a rear-facing child seat in the front passenger seat, when a front passenger airbag is fitted and operational.

## CHILD SEAT POSITIONING



Information given within the table is correct at the time of going to press. However, availability of child restraints may change. Please consult your Dealer/Authorised Repairer for the latest recommendation.

**Note:** *The information contained in the following table may not be applicable to all countries. If you are in any doubt regarding the type and fitment of child seats seek advice from your Dealer/Authorised Repairer.*



# Occupant safety



**Crash statistics show that children are safest when properly restrained in a child or infant restraint system that is secured in a rear seating position.**

**Note:** Ages given are approximate. In case of doubt, the child's weight not age should be used when considering an appropriate child seat.

**Note:** The legislation which governs how and where children should be carried when travelling in a vehicle, is subject to change. It is the responsibility of the driver to comply with all regulations in force.

Mass group. As indicated on child restraint packaging.	0 = Up to 10 kg (22 lb) 0-9 months	0+ = Up to 13 kg (29 lb) 0-18 months	I = 9-18 kg (20-40 lb) 9 months to 4 years	II = 15-25 kg (33-55 lb) 4-9 years	III = 25-36 kg (55-80 lb) 8-12 years
Seating positions					
Front passenger	U*	U*	UF	U	U
Rear outboard	U	U	U	U	U
Rear centre	U	U	U	U	U

- U = Suitable for universal category restraints approved for this mass group.
- UF = Suitable for Forward-facing universal category restraints approved for this mass group.

\* Never install a child restraint, approved for this mass group, in the front passenger seating position, unless the airbag has been disabled. See **DISABLING THE PASSENGER AIRBAG (not Australia)**, 33.

## RECOMMENDED CHILD SEATS

Child size/age	Recommended seat
Groups 0 and 0+	Britax/Römer Baby Safe Plus
Group I	Britax/Römer Duo Plus
Group II and III	Britax/Römer Kid Plus

## CHILD RESTRAINT CHECK LIST

Every time a child travels in the vehicle observe the following:-

- Use appropriate child restraints.
- Carefully follow the restraint system manufacturers instructions.
- Adjust the harnesses for every child on every trip.
- Ensure that all slack is removed from the adult seat belt.
- Always attach the top tether when installing an ISOFIX seat.
- Always check the security of the child restraint.
- Do not dress a child in bulky clothing, or place any objects/padding between the child and the restraint.
- Regularly check the fit and condition of child restraints. If the fit is poor, or wear/damage is visible replace the restraint immediately.

- Set a good example - always wear your seat belt.



**WARNING:** Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.

### ISOFIX ANCHOR POINTS (not Australia)



**Do not attempt to fit ISOFIX restraints to the centre rear seating position. The anchor bars are not designed to hold an ISOFIX restraint in this position.**



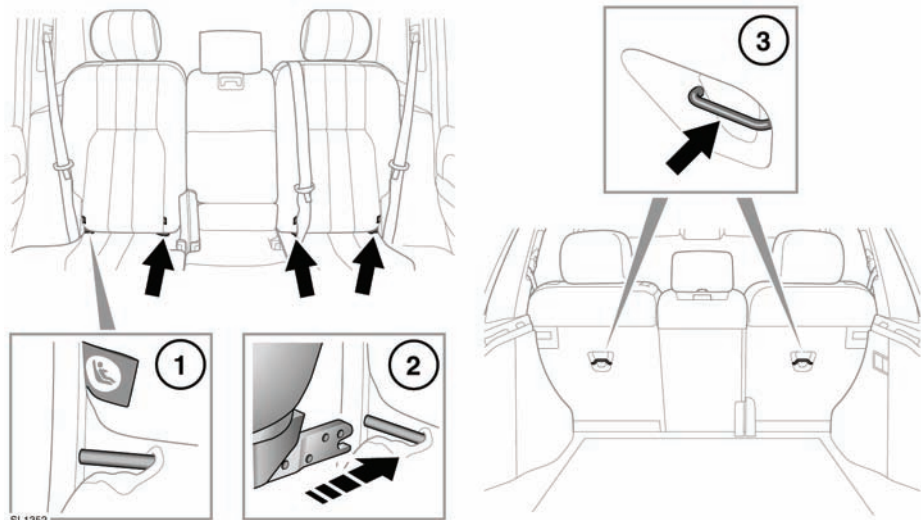
**If the restraint is not correctly anchored, there is a significant risk of injury to the child in the event of a collision or emergency braking.**

Both of the outer seat positions on the rear seat are equipped to accept ISOFIX restraints.



This symbol is shown on a label sewn into the seats to indicate the position of the ISOFIX lower anchorages.

## INSTALLING AN ISOFIX CHILD SEAT



To install an ISOFIX child seat:-

1. Locate the ISOFIX locking mechanism.
2. Slide the child seat into the locking mechanism.
3. If an upper tether is fitted to the child seat, ensure it is properly secured to the upper tether anchorages on the rear of the seats.

Test the security of the child restraint. To do this, attempt to pull the restraint away from the vehicle seat and twist the restraint from side to side. Even if the restraint appears secure, you should still check the anchor points visually, to ensure correct attachment.

**Note:** Always ensure that if an upper tether is provided, it is fitted and tightened correctly.

## ISOFIX CHILD SEAT POSITIONS

Mass group as shown on child restraint	Size classes	Fixtures	Vehicle ISOFIX positions
Carrycot	F/G	ISO L1/L2	X
0 = Up to 10 kg (22 lb) 0-9 months	E	ISO R1	IL *
0+ = Up to 13 kg (29 lb) 0-18 months	C/D/E	ISO R1/R2/R3	IL *
I = 9 to 18 kg (20 to 40 lb) 9 months - 4 years	C/D A/B1/B	ISO R2/R3 ISO F2/F2X/F3	X IUF
II = 15 to 25 kg (33 to 55 lb) 4-9 years	N/A	N/A	N/A
III = 22 to 36 kg (49 to 80 lb) 8-12 years	N/A	N/A	N/A

- IUF = Suitable for ISOFIX forward child restraint systems of universal category approved for use in the mass group.
- IL = These ISOFIX child restraint systems are of the specific vehicle, restricted or semi-universal categories.
- X = Not suitable for ISOFIX child restraint fitment in this mass group.
- \* = Child seat suitable for use in these locations, is the Britax/Römer Baby Safe Plus ISOFIX

**Note:** Ages given are approximate. In case of doubt, the child's weight not age should be used when considering an appropriate child seat.

**Note:** The information contained in the table may not be applicable to all countries. If you are in any doubt regarding the type and fitment of child seats seek advice from your Dealer/ Authorised Repairer.

**Note:** ISOFIX anchorages are provided for second row outer seating positions. ISOFIX child restraints should be securely attached following the manufacturers instructions at these locations only.

## BOOSTER CUSHIONS

In a situation where a child is too large to fit into a child safety seat but is still too small to safely use just the three point belt, a booster seat is recommended for maximum safety. Follow the manufacturer's instructions for fitting and use, then adjust the seat belt to suit.

## TETHER ANCHORAGE POINTS (Australia only)



**WARNING:** Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle.



Always follow the child seat or restraint system manufacturer's instructions when fitting tether straps.



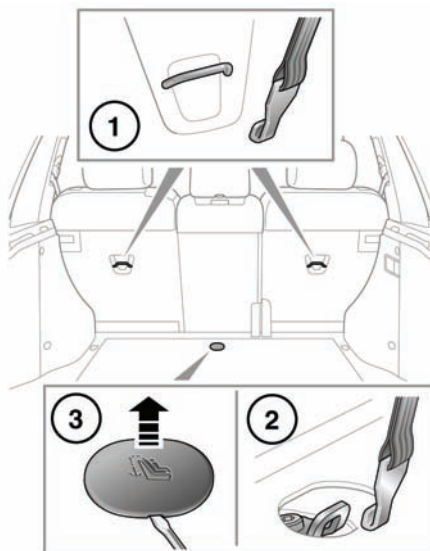
When fitting a child seat or restraint system, always pass the tether strap over the top of the seat back and beneath the head restraint.



If a child seat or restraint system is to be fitted to the centre seating position, the centre armrest must be in the stowed position (folded into the seat).

Your vehicle is equipped with tether strap anchorage points behind the second row seat frames (1). These should be used to attach straps from child seats or restraint systems.

A floor mounted tether anchorage (2) is provided for the centre seat position. Use a small, flat bladed screwdriver to remove the circular cover (3).

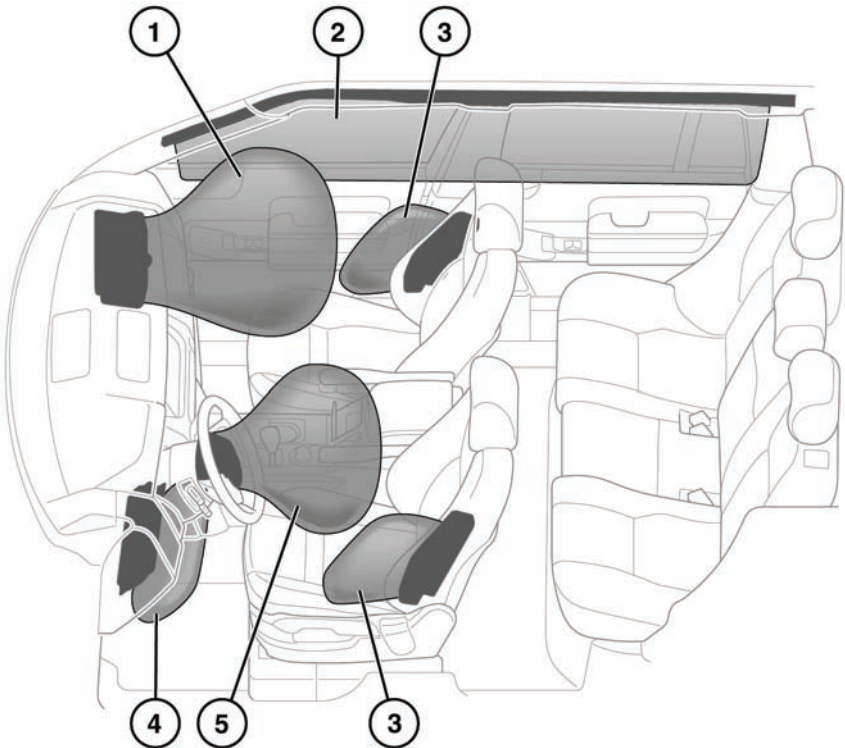


SL1201

## ATTACHING TETHER STRAPS

- A. Install the child restraint securely in one of the rear seating positions.
- B. Pass the tether strap over the seat back and beneath the head restraint.
- C. Attach the tether strap hook to the tether anchor point on the back of the seat. Ensure that the tether strap hook is facing the towards the back of the seat (see illustration).
- D. Tighten the tether strap according to the manufacturer's instructions.

## AIRBAG SUPPLEMENTARY RESTRAINT SYSTEM (SRS)



SL1202

1. Passenger airbag.
2. Curtain airbag.
3. Side airbags.
4. Knee-bolster airbag.
5. Driver airbag.

**Note:** The general location of airbags fitted to the vehicle are marked by the word AIRBAG.

Always contact your Dealer/Authorised Repairer if:

- An airbag inflates.
- The front or sides of the vehicle are damaged.
- Any part of the Airbag Supplementary Restraint System (SRS) shows signs of cracking or damage, including trim covering airbags.

## AIRBAG OPERATION



For the airbags to operate correctly the roof lining and door post trims must be in good condition, correctly fitted, and free from obstruction. Any damage, wear, or incorrect fitment should be referred to your Dealer/ Authorised Repairer as soon as possible for examination and repair.



Do not allow passengers to obstruct the operation of the airbags by placing any part of their person, or any objects, in contact with, or close to, an airbag module. Only use approved accessories (e.g. seat covers).



Ensure that a gap is maintained between the side of the vehicle, and the head and torso. This will enable unobstructed inflation of the curtain, and seat mounted side airbags.



Airbags inflate at high speeds. To minimise the risk of injury, ensure that all vehicle occupants wear correctly positioned seat belts, sit correctly in the seats, and position the seats as far back as practical.



Airbag inflation takes place instantaneously, and cannot protect against the effects of secondary impacts. Under these circumstances the only protection will be provided by a correctly worn seat belt.



Phone systems should only be installed by qualified persons familiar with the operation of, and requirements for, vehicles fitted with SRS. If you are in any doubt, seek advice from your Dealer/Authorised repairer.

Airbag deployment is dependent on the rate at which the passenger compartment changes velocity following the collision. Circumstances affecting different collisions (vehicle speed, angle of impact, type and size of object hit, etc.), vary considerably and will affect the rate of deceleration accordingly.

Airbags cannot deploy correctly if they are obstructed. Examples of obstructions are:-

- Any part of an occupants body in contact with, or close to, an airbag cover.
- Objects placed on, or close to, an airbag cover.
- Clothing, sun screens, or other material hanging from grab handles.
- Clothing, cushions, or other material, covering seat mounted airbags.
- Seat covers which are not approved by Land Rover, or specifically designed for use with seat mounted airbags.

This list is not exhaustive, and it remains the responsibility of the driver and passengers to ensure that the airbags are not obstructed in any way.

**Note:** *The airbags and SRS are not designed to operate as a result of:*

- Rear impacts.
- Minor front impacts.
- Minor side impacts.
- Heavy braking.
- Driving over bumps and pot holes.

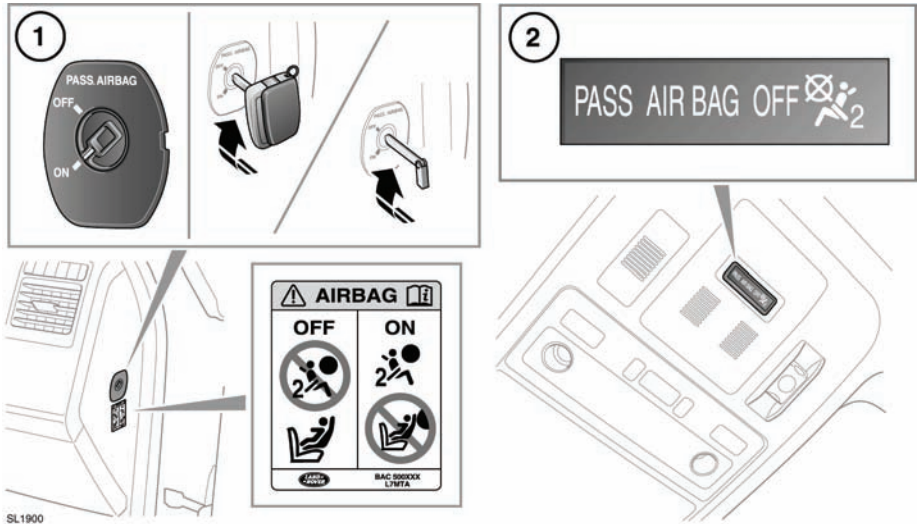


**High speed impacts may cause serious injury or death irrespective of safety features fitted to a vehicle.**



**The airbag SRS cannot provide protection in some types of impact. Under these circumstances the only protection will be provided by a correctly worn seat belt.**

## DISABLING THE PASSENGER AIRBAG (not Australia)



Crash test data and statistics show that the safest place for a child to be restrained is in a child seat correctly fitted to the vehicle's rear seat.



Do not use a child restraint on a seat protected by an operational airbag in front of it. Doing so presents a high risk of death or serious injury to the child in the event of an accident.



Do not fit a child restraint to the front passenger seat if the SRS warning light illuminates continuously with the ignition on.

To disable the passenger airbag (not fitted in Australia):-

**Note:** The passenger airbag should be disabled only when a rearward facing child restraint is fitted to the front passenger seat.

1. Insert the end of the emergency key blade into the slot in the switch and rotate the switch to the off position.

2. The passenger airbag operational status indicator illuminates yellow when the airbag has been disabled.

**Note:** The indicator will only illuminate when the ignition is turned on or the engine is running.



As soon as the child seat is removed from the front passenger seat, the airbag must be turned on. Failure to do so will put any front seat passengers at greater risk of death or serious injury in the event of an accident.



When checking the operational status of the front passenger airbag, ensure that the ignition is switched on.



## FRONT AIRBAGS

The front passenger and driver airbags are able to deploy in two stages, depending on the severity of the frontal impact. In a severe impact, the airbags inflate fully to offer maximum protection. In a lesser impact, full deployment is not required, so the airbags are partially inflated.

## SEAT MOUNTED SIDE AIR BAGS

These are designed to protect the thorax region of the torso and will deploy only in the event of a side impact and then, only on the side of the impact.

## CURTAIN AIR BAGS

The curtain air bags deflate at a slower rate than the front or side air bags, to afford greater protection from serious head injuries.

## AIRBAG DEPLOYMENT EFFECTS



**When an airbag inflates, a fine powder is released. This is normal and not an indication of a malfunction. The powder may cause irritation to the skin and should be thoroughly flushed from eyes and any cuts or abrasions. If breathing difficulty is experienced, leave the vehicle if possible or open the windows or doors to allow fresh air in.**



**Airbags inflate at high speed and can cause injuries. To minimise the risk of injury, ensure that all occupants wear correctly positioned seat belts, sit correctly in the seats and position the seats as far back as is practicable.**



**Airbag deployment is accompanied by a very loud noise which may cause discomfort and temporary loss of hearing.**



**After inflation, some airbag components will be very hot. Do not touch the airbag components until they have cooled sufficiently.**

## AIRBAG WARNING LAMP



The airbag warning lamp is mounted in the instrument pack, and will illuminate as a bulb check when the ignition is turned on.



**If the warning lamp indicates that a fault is present in the system, do not use a child restraint on the front passenger seat.**

If any of the following warning indicator conditions occur, the vehicle should be checked by your Dealer/Authorised Repairer immediately.

- The warning lamp fails to illuminate when the ignition is turned on.
- The warning lamp fails to extinguish within 6 seconds of the ignition being turned on.
- The warning lamp illuminates at any time other than the bulb check, when the ignition is turned on.

## AIRBAG SERVICE INFORMATION



**Do not attempt to service, repair, replace, modify, or tamper with, any part of the SRS. This includes wiring or components in the vicinity of SRS components. Doing so may cause the system to trigger, or render the system inoperative.**



**Do not use any electrical test equipment or devices in the vicinity of SRS components or wiring. Doing so may cause the system to trigger, or render the system inoperative.**

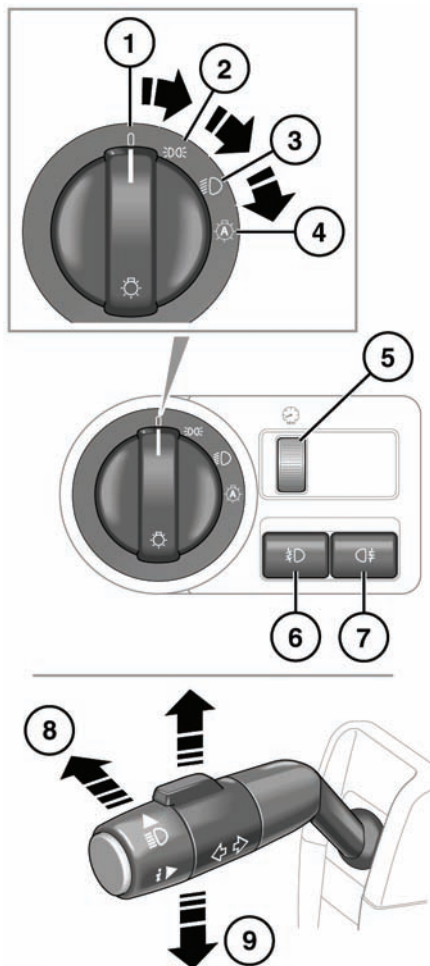
All of the following operations should only be carried out by a Dealer/Authorised Repairer, or suitably qualified person:-

- Removal or repair of any wiring or component in the vicinity of any SRS components.
- Installation of electrical, or electronic, equipment and accessories.
- Modification to the front or sides of the vehicle exterior.
- Attachment of accessories to the front or sides of the vehicle.

### **DISABILITY MODIFICATIONS**

Occupants with disabilities which may require modification of the vehicle, must contact a Dealer/Authorised Repairer before any modifications are made.

## LIGHTING CONTROLS



1. Headlamps/side lamps off.
2. Side lamps on.
3. Low beam headlamps on.
4. Autolamps on.

With the switch in this position and the ignition on, the side lamps, low beam headlamps and licence plate lamps illuminate automatically when the ambient light level is low. Auto high beam and Headlamp courtesy delay may also be activated (see below).

5. Instruments, clock and switch illumination, rotate to adjust.
6. Front fog lamps on/off.  
When the front fog lamps are on, the front fog lamp warning indicator will illuminate.
7. Rear fog lamps on/off.  
When the rear fog lamps are on, the rear fog lamp warning indicator will illuminate.
8. Headlamp high/low beam.

When low beam headlamps are switched on, push the indicator stalk to change to high beam (the high beam warning lamp will illuminate).

To flash the headlamps at anytime, briefly pull the indicator stalk and release it.

**Note:** Do not use high beam where it may dazzle other road users.

9. Push the stalk up or down briefly and release to flash the relevant direction indicator three times. Can be useful when lane changing.

## HEADLAMP COURTESY DELAY

This feature operates whenever the lamps master switch is left in the Auto position (4), and the ignition is turned off. The headlamps will remain illuminated for up to 240 seconds.

**Note:** The time delay may be changed via the Vehicle settings menu. See **VEHICLE INFORMATION AND SETTINGS MENU, 52.**

SL1204

## AUTO HIGH BEAM

This feature automatically selects and deselects high beam, under specific conditions of road lighting and in the absence of other vehicle's lights. The system is only active when the ambient light drops below a predetermined level.

**Note:** *It is not recommended that auto high beam is used while driving off road.*

For auto high beam to become operational, the main lighting switch must be in the Auto position (4), with low beam headlamps selected.

The system will only activate when the vehicle speed exceeds 40 km/h (25 mph). The system will deactivate when vehicle speed drops below 24 km/h (15 mph).

To manually select high beam, move the stalk (8) to the high beam position as normal. To return to Auto high beam, move the stalk back to the central position.

To manually override to low beam from high beam, pull the stalk to the flash position and auto high beam will be cancelled. To return to auto high beam, push the stalk to the high beam position and then return it to the central position.



A green lamp in the instrument pack illuminates when auto high beam is selected.

To turn off auto high beam, turn the main lighting control from Auto (4) to headlamps.

This feature can be disabled/enabled via the Vehicle settings menu. See **VEHICLE INFORMATION AND SETTINGS MENU, 52.**

**Note:** *The following may affect the operation of auto high beam:-*

- *Highly reflective road signs.*
- *Vehicles with dim headlamps.*
- *Adverse weather conditions.*
- *Dirty sensor.*
- *Dirty, damaged, or misted windscreen.*

**Note:** *The system cannot be relied upon to activate or de-activate high beam in all possible circumstances. It remains the driver's responsibility to ensure correct use of the headlamps at all times.*

**Note:** *Ensure that the sensor on the back of the rear view mirror is not blocked or obstructed.*

## DAYLIGHT RUNNING LAMPS

With the main lighting control in the Off position (1), low beam headlamps, side lamps, tail, license plate lamps and, where fitted, side marker lamps, will switch on automatically under the following conditions.

- The ignition is on.
- The gear selector is out of park.
- The parking brake is not applied (is released) - market dependent.



Unless required or prohibited by law, daylight running lamps can be disabled or enabled by your Dealer/Authorised

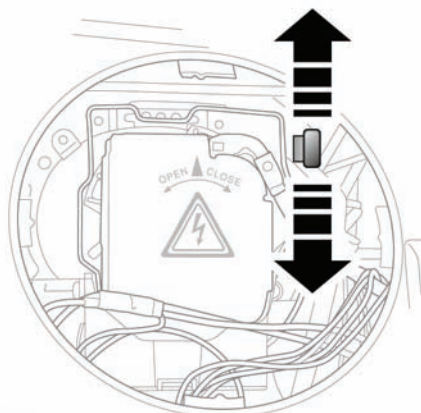
Repairer.

## CONDENSATION

Misting of lamp lenses can occur under some atmospheric conditions. This will not affect the performance of the lamps and will clear during normal operation.

### ADJUSTING THE HEADLAMPS FOR DRIVING OVERSEAS

The tourist lever allows you to adjust the headlamps to the correct beam pattern for driving on the left or right hand side of the road.



When new, the lever will be set to the correct position for the country in which the vehicle is sold. To change the pattern for driving on the alternate side of the road, move the lever to the alternate position. To access the lever twist and lift off the cap on the back of the headlamp unit.

**Note:** When changing the beam pattern using the lever, ensure that you change the lever position on both headlamps.

**Note:** If the Auto high beam feature is enabled, you should also configure the system for the side of the road on which you are driving. See **VEHICLE INFORMATION AND SETTINGS MENU, 52**.

### ADAPTIVE FRONT LIGHTING SYSTEM (AFS)

When cornering using low beam, AFS will adjust the headlamp beams to provide improved illumination in the direction of travel.

AFS is deactivated when:-

- Reverse gear is selected.
- The vehicle is stationary.
- Daylight running lamps are on.

If a system fault is detected the headlamps will attempt to move to the central position, and remain stationary. The AFS warning indicator will illuminate to indicate that a fault is present.



If the warning lamp illuminates, contact your Dealer/Authorised Repairer as soon as possible.



**Xenon lamp units operate at a very high temperature. If there is a need to remove them and they have recently been in use, allow sufficient time for cooling before touching them.**

### CORNERING LAMPS

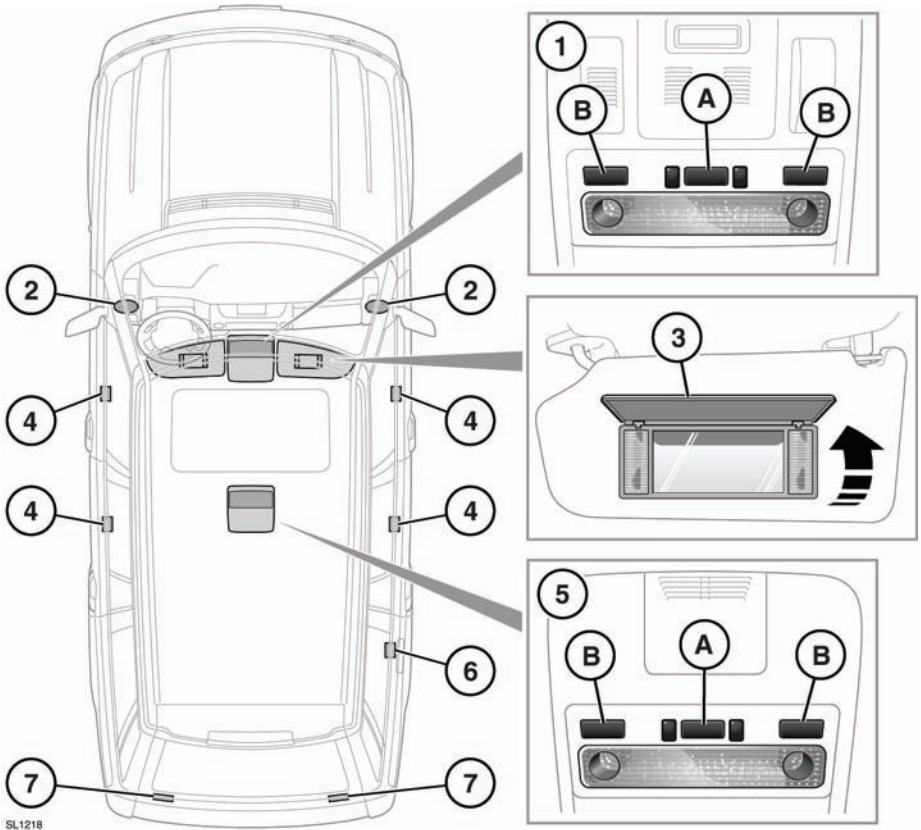
Additional lighting offset at 45 degrees from straight ahead is activated when cornering. This broadens the beam of the headlamps in the direction of the turn, improving visibility.

A cornering lamp is activated when a direction indicator is used, vehicle speed is below 60km/h (37mph) and the steering wheel is turned through 70 degrees or more.

The feature will not operate when speed exceeds 70km/h (44mph).

**Note:** Cornering lamps operate at speeds between 30-70 km/h (18-44 mph).

## INTERIOR LAMPS



### 1. Map reading/interior lamps:

#### A. Main interior lamp control (on/off/Auto).

To activate or deactivate Auto mode, press and hold for longer than 3 seconds. In Auto mode the lamps will illuminate when a door is opened.

#### B. Map light controls (on/off).

### 2. Upper footwell lamps.

### 3. Sun visor lamps:

To operate, raise the cover on the vanity mirror.

### 4. Door puddle lamps.

### 5. Rear interior light control:

#### A. Main interior lamp control (on/off/Auto).

## Interior lights

To activate or deactivate Auto mode, press and hold for longer than 3 seconds. In Auto mode the lamps will illuminate when a door is opened.

**B.** Map light controls (on/off).

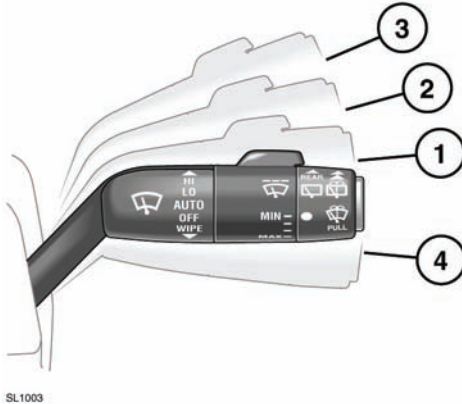
6. Luggage lamp.

7. Tailgate lamps.

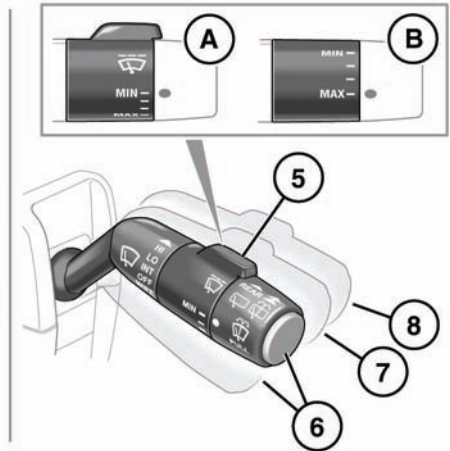
### INTERIOR COURTESY LAMPS

The interior, footwell, puddle, luggage and tailgate lamps illuminate automatically whenever the vehicle is unlocked, when the ignition is turned off, or when a door or tailgate is opened. The lamps remain illuminated for 60 seconds after the doors and tailgate are closed, or until the ignition is switched on.

## WINDSCREEN WIPERS



SL1003



1. Rain sensor activated wipe or intermittent wipe (dependent on option fitted).
2. Low speed wipe.
3. High speed wipe.
4. Single wipe.
5. Rotate the control to adjust rain sensor sensitivity or on vehicles not fitted with a rain sensor, to adjust the intermittent variable delay (non-rain sensor vehicles):
  - A. Rain sensor minimum sensitivity. Intermittent wipe maximum delay.
  - B. Rain sensor maximum sensitivity. Intermittent wipe minimum delay.
6. Windscreen washers:
 

Pull the stalk, the windscreen wipers will operate in conjunction with the washers for as long as the stalk is held in this position (maximum 10 seconds). The wipers will continue for a further 3 wipes after the stalk is released.

This feature can also be activated by pressing the button on the end of the stalk.

7. Rear wiper, intermittent operation:
 

Push the stalk to the first position to operate. The frequency of wipes will increase as the vehicle's speed increases

If reverse gear is selected while the front wipers are active, the rear wipers will operate continuously.



The rear wipers can be configured to operate continuously by a Land Rover Dealer/Authorised Repairer.

8. Rear wash/wipe:
 

Push the stalk to the second position to operate.

The wiper operates automatically during washing and continues for a further 3 wipes after the switch is released.



Do not operate the windscreen wipers on a dry screen.



In freezing or very hot conditions, ensure that the wipers have not stuck to the glass.





Remove any snow, ice or frost from the screen, around the wiper arms and blades and the screen scuttle, before operating the wipers.

**Note:** If the wiper blades become stuck or jammed, an electronic cut-out may temporarily halt wiper operation. If this happens, switch off the wipers and the ignition. Clear any obstructions and free the wiper blades, before attempting to switch on the ignition.

## RAIN SENSOR VARIABLE DELAY



Ensure that the wipers are switched off before entering a car wash. If the rain sensitive wipers operate during the car washing process, damage may occur to the wiper mechanism.

A rain sensor in front of the rear view mirror is able to detect the presence and amount of rain/dirt/snow on the windscreen and automatically activates the windscreen wipers accordingly. Static droplets may not be detected on initial start-up, use a single wipe to clear the screen.

To activate the rain sensitivity wipers, move the wiper stalk to position **(1)** and adjust the rain sensitivity control **(5)** as required. When rain sensitive wipers are activated and when sensitivity is increased, a single wipe will operate.

If the sensor detects constant rain, the wipers automatically operate continuously at normal or fast speed.

## INTERMITTENT VARIABLE DELAY

With the stalk in position **(1)** rotate the switch **(5)** to increase or decrease the frequency of the intermittent wipe.

## SPEED-DEPENDENT MODE

If vehicle speed drops below 8 km/h (5 mph) with the wipers operating, the wipers will switch to the next lowest speed. When vehicle speed increases to over 8 km/h (5 mph), the original wiper speed setting is restored automatically.



This feature can be enabled or disabled by your Dealer/Authorised Repairer.

## SPEED-DEPENDENT INTERMITTENT MODE

In vehicles not fitted with a rain sensor, the frequency of intermittent wipe adjusts according to vehicle speed.

The intermittent delay period can be adjusted via the collar **(1)**, but will also reduce automatically as vehicle speed increases.



This feature can be enabled or disabled by your Dealer/Authorised Repairer.

## HEADLAMP POWER WASH

If the headlamps are on, operating the screen washer will also power-wash the headlamps.

Headlamp power-wash operates with every fifth operation of the screen washer, provided that ten minutes have elapsed since the last operation of the headlamp washers.

**Note:** If the fluid level sensor in the screen washer reservoir detects a low level, the headlamp power wash is inhibited.

## REAR WIPER

If reverse gear is selected while the front wipers are operating, the rear wiper will begin automatically and continue as long as reverse gear is selected. The wipe interval is set to 6 seconds.

When stationary, if the tailgate is opened when the rear wiper is operating, it will stop. When the tailgate is closed, the wiper will start to operate again after 3 seconds.

### HEADLAMP WASHERS

If the headlamps are on, and there is sufficient liquid in the washer reservoir, operating the screen wash will also power-wash the headlamps.

The headlamp power wash will operate on every fifth operation of the screen washer, provided the headlamps are still switched on and approximately 10 minutes have elapsed since the last headlamp wash.

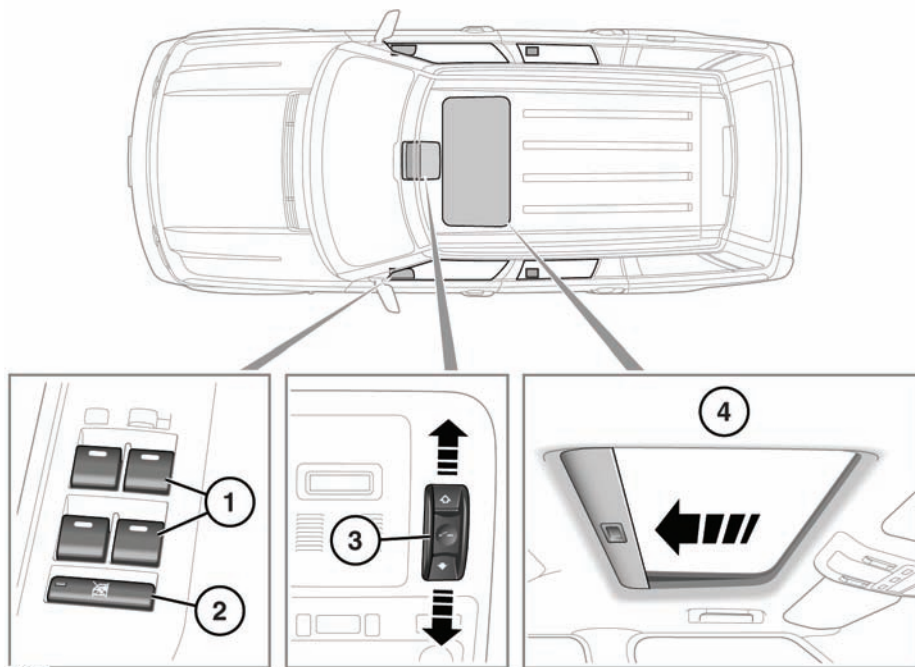
Switching the headlamps or ignition off and back on again, will reset the cycle.

**Note:** *The headlamp washers are inhibited when the washer fluid reservoir level is low.*

### HEATED WASHER JETS

If the ambient temperature is low enough for icing of the washer jets, heating is applied while the ignition is on.

## WINDOWS AND SUNROOF



### 1. Window switches:

Press lightly and hold the top of a switch to lower and lift lightly and hold the top of a switch to raise.

**For one-shot operation:** Briefly pull the switch fully up and release, the window will continue to raise until fully closed. Briefly press the switch fully down and release, the window will continue to lower until fully open. Pressing or pulling the switch again will stop the window.

The windows will operate for 5 minutes after the engine is switched off, as long as none of the doors are opened.

### 2. Rear window isolator switch.

The rear windows are isolated when the indicator light in the switch is illuminated.



**If children are carried in the rear seats, the isolator switch should be used to prevent operation of the windows. If the windows are operated by young children there is a risk of serious injury or death.**

### 3. Sunroof close/tilt switch:



Wherever possible remove any snow, ice, dirt, and leaves etc. from the sunroof mechanism before closing. Failure to do so may damage the sunroof mechanism.

**To tilt the roof:** Press the centre of the switch - the rear edge of the roof automatically rises to the fully tilted position.

**To open the roof:** Push the switch rearwards to the first position, the sunroof slides open until the switch is released. Push the switch to the second position and release, to fully open the roof in one operation.

**To close the roof:** Push the switch forwards to the first position, the roof closes until the switch is released. Push the switch to the second position to close the roof in one operation.

**Note:** The sunroof will operate for 16 minutes after the ignition is turned off, provided that a front door is not opened.

**Note:** If the battery is disconnected or the power supply is interrupted while the sunroof is partially open, it will need to be recalibrated as follows:

*With the power supply reconnected, fully tilt the sunroof open. Continue to push the switch in the tilt position for approximately 20 seconds.*

*The sunroof can now be operated as normal.*

**Driving with the sunroof open:** When driving with the sunroof open and unwanted drafts are experienced, open the front fascia air vents to increase the blower speed. Do not operate the air conditioning.

### 4. Sunroof blind:

The sunroof blind can be opened and closed manually, but will retract automatically when the sunroof is opened, and will open slightly if the sunroof is tilted.



It is not possible to fully close the sunroof blind with the sunroof in the tilt position. Attempts to close the blind may damage the sunroof mechanism.

## ANTI-TRAP PROTECTION



**Closing a window or sunroof onto any part of the body can result in serious injury.**



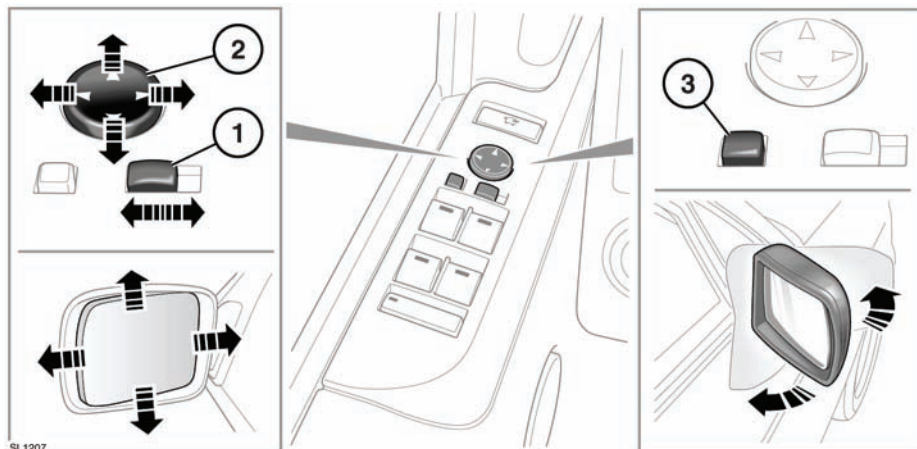
**Before closing a window or the sunroof, ensure that no occupants have any part of their body in a position where it could be trapped. Even with an anti-trap system death or serious injury could occur.**



**The anti-trap mechanism does not operate when closing the sunroof from the tilted position. The sunroof can cause serious injury should a body part become trapped. Always ensure that the sunroof is free from obstructions before closing.**

Anti-trap protection will stop window or sunroof movement if an obstruction or resistance is detected. Check the window or sunroof and its aperture and remove any obstructions.

## ELECTRIC EXTERIOR MIRRORS



1. Mirror select switch: Move left or right to select mirror to be adjusted.
2. Mirror adjustment switch: Move up/down/left or right to adjust the mirror glass.
3. Press the switch to fold/unfold the mirrors.

**Note:** If the mirrors are accidentally knocked out of position, an additional operation of the switch will re-synchronise them.

Ice or mist will disperse from the mirrors when the ignition is switched on, depending on external temperature.

The mirrors are designed to fold forwards or rearwards on impact. They can also be folded back towards the side windows into a park position to enable the vehicle to negotiate narrower openings.

**Note:** The exterior mirrors position can be stored in the system's memory. See **DRIVING POSITION MEMORY, 15**.

### AUTOMATIC FOLDING

The mirrors will fold automatically when the vehicle is locked, and unfold when it is unlocked.

### MIRROR DIP WHEN REVERSING

When reverse gear is selected the door mirrors automatically adjust, providing an improved viewing angle for reversing.

The exact dipped position can be adjusted when the mirrors are dipped. The next time reverse is selected, the newly adjusted position will be selected.

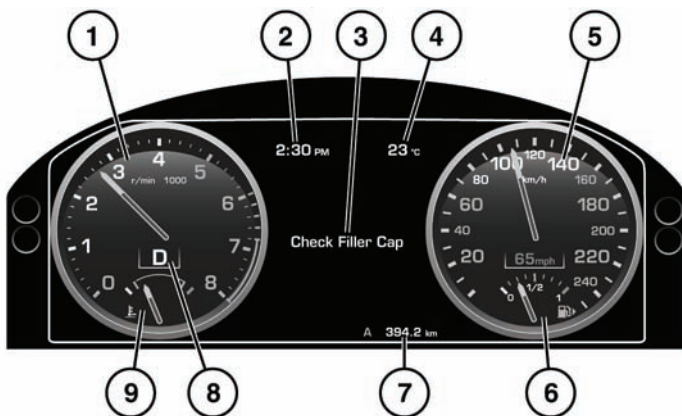
**Note:** If vehicle speed exceeds 12 km/h (7.5 mph) in reverse, the mirrors will return to their normal driving position for enhanced visibility.

The automatic mirror dip feature can be enabled or disabled from the Vehicle settings menu. See **VEHICLE INFORMATION AND SETTINGS MENU, 52**.

## TFT INSTRUMENT PANEL FEATURES

The TFT virtual instrument panel has a flexible configuration that allows the user to personalise the display. For instance, it can show 4 x 4 information when in Lo range and display speed in mph or kmh when selected from the menu. This is in addition to all the usual instrument panel features.

Personalisation can be made via the Settings menu. See **VEHICLE INFORMATION AND SETTINGS MENU, 52**.



SL1670

1. Tachometer.
2. Clock. 12 or 24 hour display.
3. Message centre and Service interval indicator. Also displays Vehicle information and Settings accessed via the steering wheel menu control.
4. External temperature. Displays in Fahrenheit or Celsius.
5. Speedometer. Displays in MPH or KMH.
6. Fuel gauge.

If the amber low fuel warning lamp illuminates, the vehicle should be refuelled as soon as possible. The approximate

distance that can be travelled on the remaining fuel can be viewed via the trip computer Distance to Empty function.

As a reminder for the location of the fuel filler, there is an arrow next to the fuel pump symbol pointing to the relevant side of the vehicle.

7. Total distance (odometer) and trip recorder. Displays in miles or kilometres.
8. Gear selector position display.
9. Temperature gauge.

If the pointer moves into the **H** section, the engine is overheating. Stop the vehicle as soon as safety permits and allow the

engine to idle until the temperature reduces. If, after several minutes, the temperature does not reduce, switch off the engine and allow to cool. If the problem persists, seek qualified assistance immediately.



Serious engine damage can occur if the vehicle is driven while the engine is overheating.

**Note:** *If engine overheating occurs, there may be a noticeable reduction in engine power and the air conditioning may cease operation. This is a normal operating strategy, to reduce load on the engine and assist with cooling.*

## MESSAGES



Do not ignore warning messages; take appropriate action immediately. Failure to do so may result in serious damage to the vehicle.

For information regarding the individual messages, their meanings and any action required, please refer to the relevant section within this handbook.

## CRITICAL WARNING MESSAGES

Critical warning messages are accompanied by an audible warning, and the message text may have the handbook symbol next to it. Critical warning messages are displayed until the condition causing the fault is rectified or the message is suppressed using the **OK** button on the steering wheel.

If the critical warning message is suppressed, a red warning icon will remain illuminated until the fault is rectified.

## WARNING MESSAGES

Warning messages are accompanied by an audible warning. These messages are displayed until the condition causing the message changes or the message is suppressed using the **OK** button on the steering wheel.

If the warning message is suppressed, an amber warning icon will remain illuminated until the fault is rectified.

**Note:** *Messages are displayed in order of importance, with critical warning messages being the highest priority.*

Active warning messages may be re-displayed by selecting **Show Warnings** on the vehicle information menu. See **VEHICLE INFORMATION AND SETTINGS MENU, 52**.

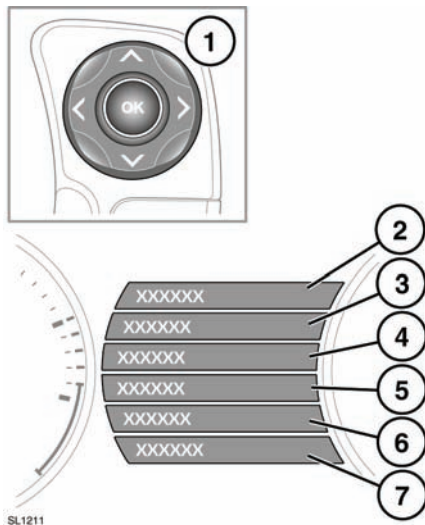
## SERVICE INTERVAL INDICATOR

The indicator will be displayed when a pre-determined distance or time before a required service is reached.

The management system takes into account driving style and driving conditions to determine the service requirement.

If driving continues beyond the displayed distance or time, the message **SERVICE REQUIRED** will be displayed.

## VEHICLE INFORMATION AND SETTINGS MENU



A number of vehicle features and display settings may be configured via the vehicle information and settings menu.

To display and navigate through the vehicle menu, operate the menu control on the steering wheel.

1. Steering wheel menu control.
  - Press the up/down arrows to scroll through a list. The current selection will be highlighted.
  - Press the right arrow to view a sub list.
  - Press the left arrow to return to the previous menu.
  - Press the **OK** button to select the highlighted item.
2. Select to close or return to main menu.
3. Select to view all active warning messages.

4. Select to access the **Vehicle Set-up** menu. The following features can be personalised:

- Forward Alert.
- Blind Spot Monitor.
- Speed warning.
- High Beam Assist.
- Alarm Sensors.
- Reverse-dip mirror.
- Drive-away locking.
- Easy Entry/Exit.
- 2-Stage Locking.
- Headlamp delay.
- TPM Load Setting.

5. Select to access the **Trip Computer** menu.

6. Select to access the **Display Settings** menu. The following features can be personalised:

- Language for message centre display.
- Temperature units.
- Appearance of the instrument panel.

7. Select to access the vehicle **Service Menu**. Can be accessed only when the engine is not running.

**Note:** Some personalisation options may not be available in all markets.



## TRIP COMPUTER



A short press (1 second or less) or a series of short presses of the button will change the trip computer display.

The options available are:-

- Date and Odometer.
- Trip distance.
- Trip average speed.
- Trip average fuel consumption.
- Instantaneous (short term average) fuel consumption.
- Range available from remaining fuel.
- Blank display.

There are 3 trip memories available, A, B and Auto. Use the settings menu to determine which trip memory is in use.

To reset trip A or trip B memory, display the trip memory you wish to reset and press and hold the button until the message **Resetting Trip A or B** is displayed. Continue to hold the button for another 2 seconds to reset the Auto trip memory.

To reset the fuel consumption figure, press and hold the button until the display clears.

Display units for the trip computer may be changed via the Vehicle information and settings menu.

## AUTO TRIP MEMORY

The Auto trip memory resets each time the engine is started and the vehicle moves.

Trips can be added together to record a continuous journey. Press the button when Auto memory figures are displayed. **Adding last journey** will appear on the screen. Press the button for longer than 1 second to add previous trip information to the current trip. The cumulative total will be displayed.

If you wish to delete the previous trip you have added, again press the button while displaying the Auto memory figures. **Removing last journey** will appear on the screen. While this message is displayed, press and hold the button for longer than 1 second. The previous trip will be deleted from the total.

# Warning lamps

## WARNING LAMPS

**RED** warning lamps are for primary warnings. A primary warning must be investigated immediately.

Seek qualified assistance before continuing.

**AMBER** and **YELLOW** warning lamps are for secondary warnings. Some indicate that a vehicle system is in operation, others indicate that the driver must take action and then seek qualified assistance as soon as possible

**GREEN** and **BLUE** lamps within the instrument panel indicate system status, such as green for direction indicators, when in operation and blue for high beam.

## BULB CHECK

A warning lamp bulb check is initiated when the ignition system is switched on and lasts for 3 seconds (except for the airbag warning lamp which will remain on for 6 seconds). If any warning lamp remains on after this period, investigate the cause before driving.

Some warning lamps have associated messages displayed on the message centre.

**Note:** *Not all warning lamps are included in the check (e.g. high beam headlamps and direction indicators).*

## CRITICAL WARNING MESSAGE (RED)



Illuminates when a critical warning message is available in the message centre.

## LOW OIL PRESSURE (RED)



Illuminates briefly when the ignition is switched on and extinguishes when the engine is started. If the lamp remains on, flashes or illuminates while driving, stop the vehicle as soon as safety permits and then switch off the engine immediately. Check the oil level.

Seek qualified assistance before starting the engine.

## BRAKE SYSTEMS (RED)



Illuminates briefly when the ignition is switched on. If the lamp illuminates while driving, suspect low brake fluid level or a fault with the Electronic Brake Distribution (EBD) system. Stop the vehicle as soon as safety permits.

If the message **CHECK BRAKE FLUID** is displayed, check the brake fluid level and top-up if necessary.

If the lamp remains illuminated, seek qualified assistance before continuing.

## PARKING BRAKE (RED)



Illuminates when the parking brake is correctly applied. If the lamp flashes red or illuminates yellow, a fault with the Electronic Parking Brake has been detected. Do not rely on the parking brake to secure the vehicle when parked.

Seek qualified assistance urgently.

## BATTERY CHARGE (RED)



Illuminates briefly when the ignition is switched on and extinguishes when the engine is started. If the lamp remains on or illuminates while driving, there is a fault with the battery charging system.

Seek qualified assistance urgently.

## SEAT BELT (RED)



Illuminates when the ignition is on and an occupied front seat belt is unbuckled. The lamp will extinguish after sixty seconds or when the relevant seat belt(s) is buckled. In some markets a warning chime will sound while the lamp is illuminated.

**Note:** In some markets, the lamp will remain illuminated until the seatbelts of occupied front seats are fastened correctly.

## ENGINE MALFUNCTION (RED)



Illuminates briefly when the ignition is switched on. If the lamp flashes or illuminates at any other time, there is a fault with the engine.

Avoid high speeds and seek qualified assistance urgently.

## GENERAL WARNING/INFORMATION MESSAGE (AMBER)



Illuminates when a non-critical warning message or an information message is available in the message centre.

## BRAKE SYSTEMS (AMBER)



Illuminates briefly when the ignition is switched on. If the lamp illuminates after starting the engine or while driving, suspect worn brake pads or a fault with the Emergency Brake Assist (EBA) system. The vehicle can still be driven with care, but avoid heavy brake application. Seek qualified assistance urgently.

## DYNAMIC STABILITY CONTROL (AMBER)



Illuminates briefly when the ignition is switched on and extinguishes when the engine is started. If the lamp flashes while driving, the DSC system is active. If the lamp illuminates continuously while driving, there is a fault with the DSC system. The vehicle can still be driven, but the DSC system will not activate under wheel spin or slide conditions.

Seek qualified assistance as soon as possible.

## DYNAMIC STABILITY CONTROL OFF (AMBER)



Illuminates when DSC is switched off.

Deactivating DSC also reduces the level of Electronic Traction Control intervention and may lead to an increase in wheel spin.

## ANTI-LOCK BRAKING SYSTEM (AMBER)



Illuminates briefly when the ignition is switched on. If the lamp remains on or illuminates while driving, there is a fault with the ABS system. Drive with care, avoiding heavy brake application.

Seek qualified assistance urgently.

## Warning lamps

### AIRBAG SRS (AMBER)



Illuminates briefly when the ignition is switched on and extinguishes when the engine is started. If the lamp illuminates while driving, there is a fault with the airbag system.

Seek qualified assistance as soon as possible.

### ADAPTIVE FRONT LIGHTING (AMBER)



Illuminates when there is a fault. The headlamps will still operate, but without this feature operating correctly.

Seek qualified assistance as soon as possible.

### ADAPTIVE CRUISE CONTROL (AMBER)



Illuminates when ACC is operating in follow mode.

### REAR FOG LAMPS (AMBER)



Illuminates when the rear fog lamps are switched on.

### DIESEL GLOW PLUG (AMBER)



Illuminates when the ignition is switched on to indicate that the glow plugs are active. Wait until the lamp extinguishes before starting the engine.

### EXTERNAL TEMPERATURE (AMBER)



Illuminates if the external temperature drops to 4°C (39°F) or less, a warning chime sounds, accompanied by a warning in the message centre. Take appropriate measures to defrost the vehicle and be aware that there may be ice on the roads.

### TYRE PRESSURE MONITORING (YELLOW)



Illuminates briefly when the ignition is switched on. If the lamp remains on or illuminates while driving, one or more tyres are significantly under-inflated. Stop the vehicle as soon as possible, check the tyre pressures and inflate to the recommended pressure.

### SIDE LAMPS (GREEN)



Illuminates when the side lights are switched on.

### FRONT FOG LAMPS (GREEN)



Illuminates when the front fog lamps are switched on.

### DIRECTION INDICATORS (GREEN)



The appropriate warning lamp will flash when the direction indicators are operated.

### HILL DESCENT CONTROL (GREEN)



Illuminates briefly when the ignition is switched on. Illuminates continuously when HDC is selected and HDC operating conditions are met. If the lamp flashes, HDC has been selected, but the operating conditions are not being met (e.g. vehicle speed is too high) or HDC fade-out is occurring.

### LOW RANGE TRANSMISSION (GREEN)



Illuminates when Low range has been selected.

### CRUISE CONTROL ACTIVE (GREEN)



Illuminates when cruise control is active.

### TRAILER DIRECTION INDICATORS (GREEN)



Illuminates briefly when the ignition is switched on and extinguishes when the engine is

started.

If a trailer is attached, the warning lamp will flash in conjunction with the direction indicator warning lamp. If the lamp fails to flash, the direction indicator bulb on the trailer may be faulty.

### FORWARD ALERT (GREEN)



Illuminates when Forward Alert is active.

### AUTO HIGH BEAM (GREEN)



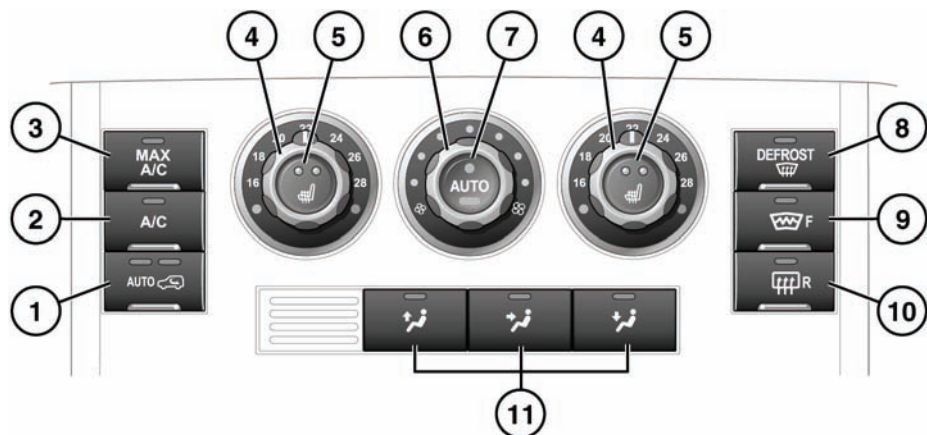
Illuminates when the auto high beam feature is enabled.

### HIGH BEAM (BLUE)



Illuminates when the high beam headlamps are switched on or flashed.

## CONTROLS



SL1212

1. Recirculation with pollution sensor.
2. Air conditioning.
3. Maximum cooling.
4. Temperature controls. For individual driver/passenger settings.
5. Front seat heaters.
6. Blower speed control.
7. Auto mode.
8. Defrost.
9. Heated front windscreen.
10. Heated rear screen.
11. Air distribution.

**Note:** The indicator lights in the switches will illuminate when the function is selected.

**Note:** In low temperatures it is advisable to close the centre face level vent and direct air flow from the outer face level vents towards the side windows. This will help to keep the windows clear of ice.

## RECIRCULATION WITH POLLUTION SENSOR

Press once to activate automatic air recirculation. In this mode, air recirculation is regulated to achieve optimum air conditioning performance.

Press again for manual control.

Press a third time to switch off.

**Note:** The windows can mist if recirculation is used for long periods.

## AIR CONDITIONING

Press for cool and dehumidified air.

Recommended for use throughout a journey to control window misting and odours.

## MAXIMUM COOLING

Press to turn on air conditioning and initiate maximum blower speed directed through the face level vents.

**MAX A/C** can be used after the engine is switched off, to provide residual engine heat

for up to 20 minutes. It will operate until the engine cools or until switched off.

## TEMPERATURE CONTROLS

Rotate to set a temperature.

**Note:** *The system will not achieve a temperature differential from left to right of more than 3°C (6°F).*

## FRONT SEAT HEATERS

Press once to turn on high, twice to turn on low and a third time to turn off.

**Note:** *Seat heaters consume a great amount of battery power. They will operate only when the engine is running.*

## BLOWER SPEED CONTROL

Rotate to adjust blower speed.

Rotate fully anticlockwise to turn the climate control system off.

## AUTO MODE

Press **AUTO** to select fully automatic operation.

The system will adjust the heat output, blower speed, air intake, airflow distribution and recirculation to maintain the selected temperature(s) and reduce misting without further adjustments.

The air distribution and blower controls may be operated independently to override Auto mode. If you do this, the indicator lamp on the **AUTO** switch will go out.

Press **AUTO** again to return to automatic operation.

## DEFROST

Press to remove frost or heavy misting from the front screen. The system will adjust the front blower output for maximum clearing and activate the rear blower. In addition the front and rear screen heaters will be activated.

Press again to switch off defrost mode. The screen heaters will remain on.

## HEATED SCREENS

Press to operate the required screen heater. The screen heater(s) will operate for a predetermined timed period before automatically switching off.

The screen heaters will be automatically switched on if defrost mode is activated or if the external air temperature is low.



Do not attach labels to the rear screen. Do not scrape or use abrasive materials to clean the inside of the screen.

## AIR DISTRIBUTION

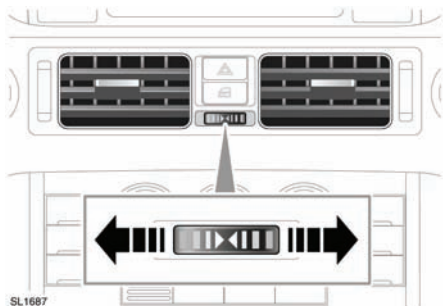
Press to select the desired distribution setting.

**Note:** *More than one setting may be selected at a time to achieve the desired distribution.*

## WATER DEPOSITS

The climate control system removes moisture from the air and deposits the excess water beneath the vehicle. Puddles may form but this is normal and is no cause for concern.

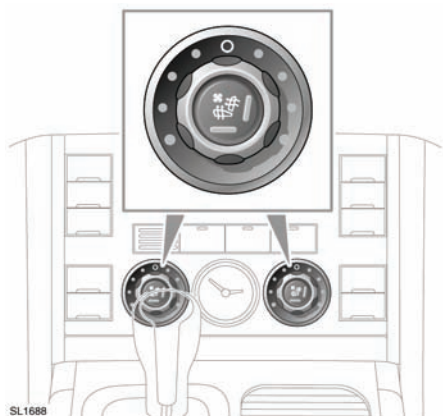
## FACE LEVEL VENT TEMPERATURE CONTROL



Temperature of air delivered through the climate control system via the centre level vent can be fine tuned. Rotate the thumbwheel to adjust temperature.

## CLIMATIC SEATS

Climatic seats provide heated or cooled ventilated air to either the seat back or seat back and cushion.



1. Rotate a control in either direction to adjust temperature. Red or blue indicators illuminate to show temperature selection.
2. Press the centre of the control for seat back ventilation.
3. Press again for seat back and seat cushion ventilation. A further press will turn off seat cushion ventilation.
4. Rotate the control to **0** to turn off ventilation.

**Note:** Climatic seats consume a great amount of battery power. They will operate only when the engine is running.

## REAR ENVIRONMENT



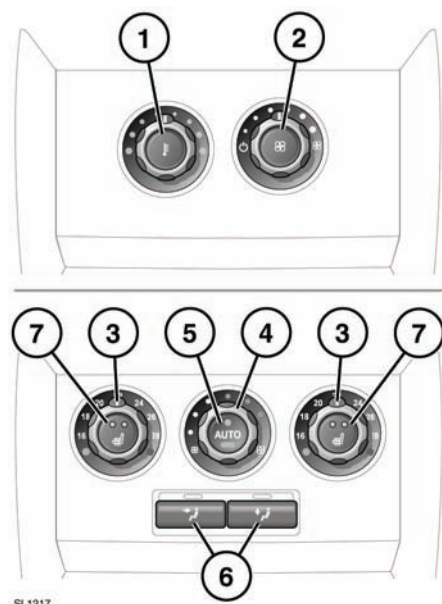
Press to activate rear climate control for the rear seat passengers. The indicator light will illuminate.



## REAR ENVIRONMENT CONTROLS

There are two levels of rear environment climate control. These are referred to as 2 Zone and 4 Zone. 4 Zone gives greater flexibility of control for individual passenger settings.

**Note:** When **DEFROST** is selected at the front, rear control is suspended until the defrost programme ends.



### 2 Zone

1. Temperature control.
2. Blower control.

Until the blower control is activated, airflow is delivered at the same temperature as set by the front climate control.

**Note:** Temperature set at the front climate control will restrict levels set at the rear.

### 4 Zone

3. Temperature controls.

4. Blower control.

5. Auto mode.

Press **AUTO** to select fully automatic operation.

The system will adjust the heat output, blower speed, air intake and airflow distribution to maintain the selected temperature(s) without further adjustments.

The air distribution and blower controls may be operated independently to override Auto mode. If you do this, the indicator lamp on the **AUTO** switch will go out.

Press **AUTO** again to return to automatic operation.

6. Air distribution.

Press to select the desired distribution setting.

**Note:** More than one setting may be selected at a time to achieve the desired distribution.

7. Rear seat heaters.

Press once to turn on high, twice to turn on low and a third time to turn off.

**Note:** Seat heaters consume a great amount of battery power. They will operate only when the engine is running.

## TIMED CLIMATE CONTROL

The system provides a comfortable temperature inside the cabin in advance of driver and passengers entering. Dependent on the external ambient temperature, the system will automatically choose to draw in fresh air to cool the cabin, or to operate the optional auxiliary heater to warm it.

The auxiliary heater is also operated to warm the engine and aid starting in very cold conditions.

# Heating and ventilation

The auxiliary heater is powered by fuel drawn from the vehicle's tank. When the heater is operating, fumes may be noticed beneath the vehicle. This is normal and no cause for concern.

The system may not operate, or will switch off automatically, if:

- The fuel level is low.
- The vehicle's battery charge is low.
- The engine coolant temperature is at or above its required temperature.



**Do not operate the auxiliary heater when refuelling the vehicle. Doing so may cause fuel vapours to combust causing a fire/explosion.**



**Do not operate the auxiliary heater when the vehicle is in an enclosed space. Doing so can cause a build up of highly toxic fumes which may cause unconsciousness or death.**

The timed climate control system may be operated from either the touch screen or the handset remote control.

**Note:** When activated, the programme will operate for 30 minutes before automatically switching off, to prevent the vehicle battery being discharged.

**Note:** The programme will cease operation if the engine is started.

## TOUCH SCREEN CONTROL

The touch screen can be used to either, programme preset activation times, or to operate the system manually.

The system can be programmed to operate once or twice in any 24 hour period. If the vehicle is used each day the system will continue to operate daily until cancelled. If the vehicle is not used within 24 hours, the

programme will be suspended. The function will be reinstated when the ignition is next turned on.

When the system is operating, the LED in the climate system **AUTO** button will flash.

## PRESETTING ACTIVATION.

1. Press the **HOME MENU** hard key.
2. Touch the **Timed Climate** soft key.  
Alternatively, this menu can be accessed from the **Vehicle settings** menu.
3. Touch the **Set** icon next to the timer you would like to programme.
4. Touch the up or down arrows to set the start time.
5. Touch **OK**.

The screen will display the activation time. If required, set the time for the other timer using the same process.

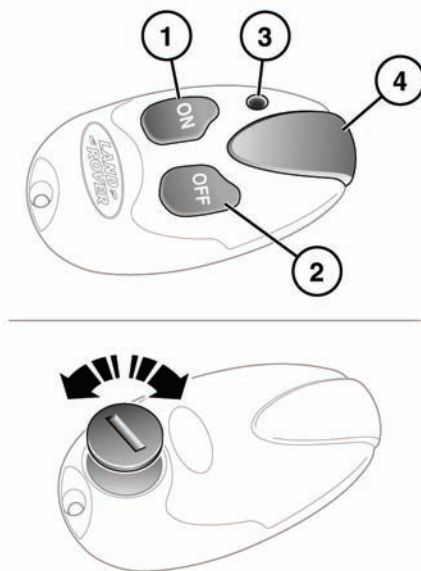
**Note:** The time format, 12/24 hour clock, is determined by the time settings currently selected in the **System settings** menu. See **SYSTEM SETTINGS, 119**.

A set time may be cancelled by touching the **Cancel timer** soft key or by starting the engine. The timed climate screen will update to show **OFF** next to the respective timer.

Ventilation or heating can be activated manually with a touch of the respective soft key.

When the timed climate is activated, the relevant soft key will be highlighted.

## HANDSET REMOTE CONTROL



SL1074

1. On button.
2. Off button.
3. LED (operation indicator).
4. Antenna.

**Note:** Avoid touching the antenna when operating the **ON** or **OFF** button.

The dedicated remote control has a range of approximately 100m (328ft). Press and hold the **ON** button for two seconds.

The remote control LED indicates various states and conditions as follows:

- Illuminates green for two seconds when the **ON** button is pressed, to indicate that programme operation has been requested. It will then flash every two seconds while the programme is active.

- Illuminates red for two seconds when the **OFF** button is pressed, to indicate that the programme has stopped.
- Flashes green or red for two seconds when the on or off buttons are pressed, to indicate that the signal was not received.
- An orange LED at any time indicates that the remote battery power is low and should be replaced.

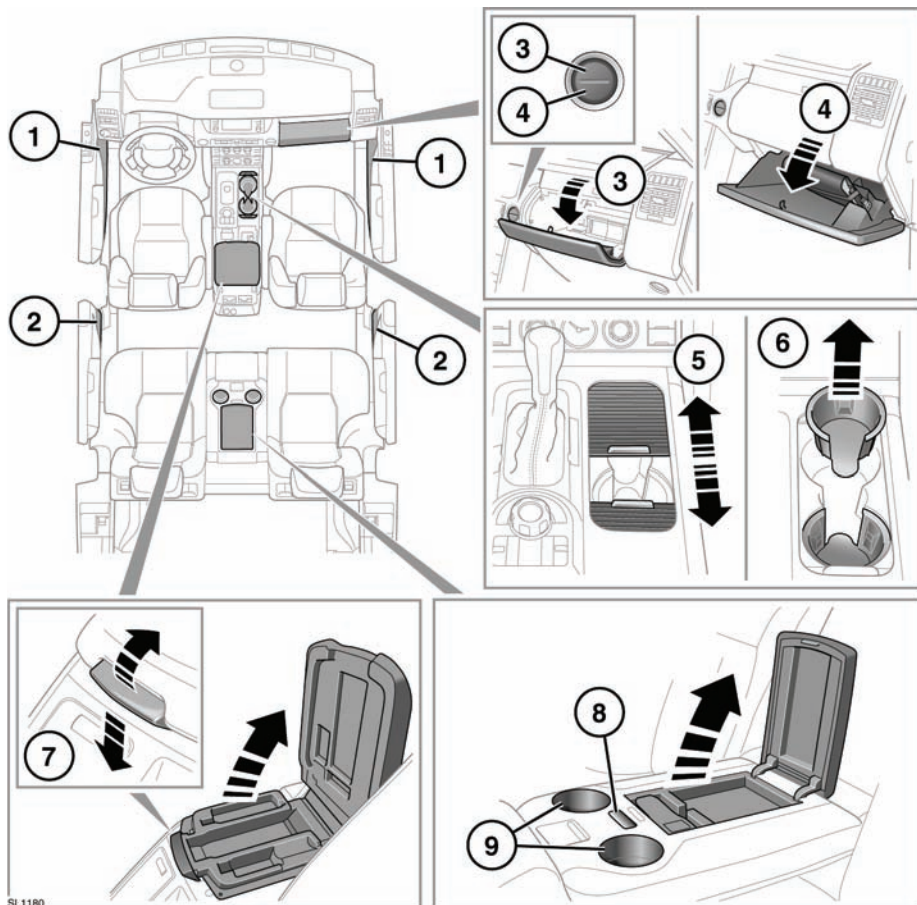
## ADDITIONAL HANDSETS

A maximum of three handsets can be programmed to each vehicle. You should contact your Land Rover Dealer to purchase additional units and have them programmed to your vehicle.

## REPLACING HANDSET BATTERIES

With the back of the unit facing upwards, use a coin or similar implement to rotate the battery cover. Lift the cover off to reveal the battery compartment. Remove the old battery and, ensuring that the correct polarity is maintained, insert a replacement 3.3 volt, CR1/3N battery. Replace the cover and rotate it to lock it closed.

## CUP HOLDERS AND STORAGE



**Ensure that any items stored in the vehicle are secure and cannot move. If the vehicle is involved in an accident, or subject to sudden braking or direction change, loose items can cause serious injury.**



**Do not drink, or use the cup holders when driving.**

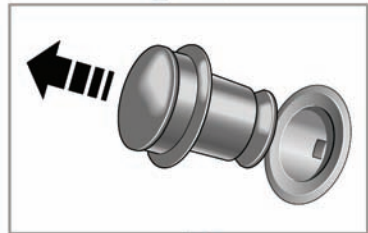
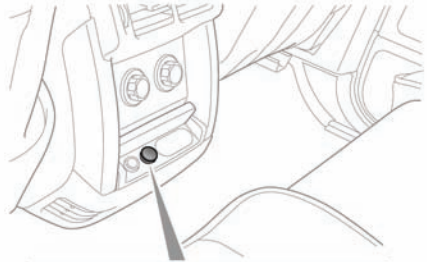
1. Door pockets.
2. Rear doors storage.
3. Press the upper part of the switch to open the upper glove box.
4. Press the lower part of the switch to open the lower glove box.
5. Slide open the covers to access the cup holders.

6. Centre console cup holders. Lift out the inner sleeve to accommodate larger cups.
7. The cubby box has two operations. Lift the catch at the front of the lid to open the main box area. Push down on the catch and lift up the lid to access the trinket tray.
8. Rear cubby box. Fold the centre armrest down. Press the button to release the lid.

**Note:** This area may already be in use if the vehicle is fitted with Rear Seat Entertainment.

9. Cup holders.

### AUXILIARY POWER SOCKETS

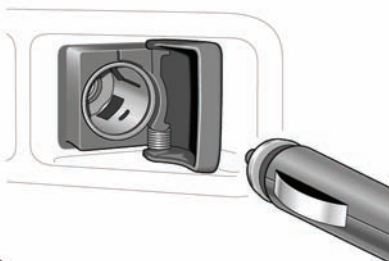


SL1440

There are three power sockets in the centre console, one for the rear and two for the front. The socket inside the cubby box is for accessory use only.

The rear loadspace socket is located behind a spring loaded cover.

## Convenience features



SL1682

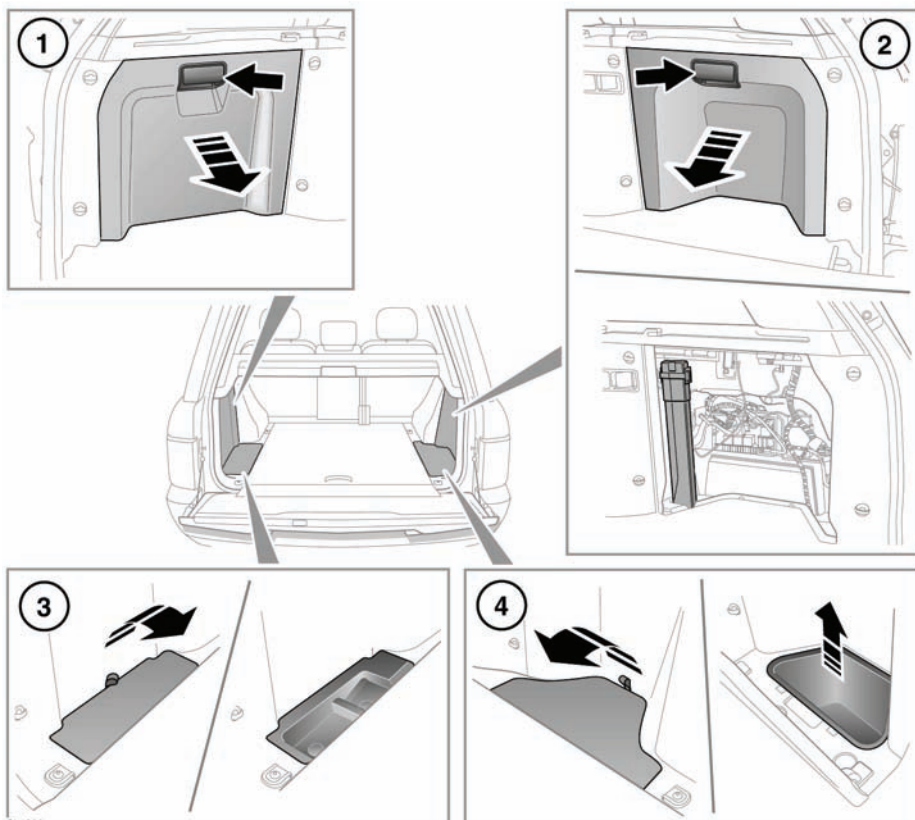
**Note:** The rear loadspace socket is constantly live. If an accessory remains attached while ignition is off, battery drain may occur.

⚠ Only use Land Rover approved accessories. Using any other equipment may damage the vehicle's electrical system. If you are in any doubt contact a Land Rover Dealer/ Authorised Repairer.

⚠ The engine should be running when using accessories for long periods. Failure to do so can discharge the battery.

**Note:** Power sockets can be used to power approved accessories that use a maximum of 180 Watts.

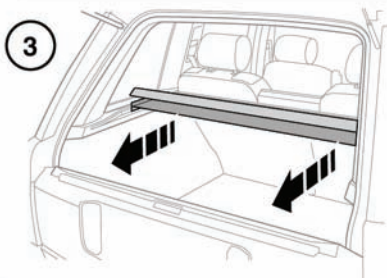
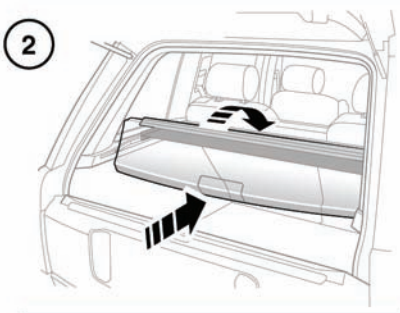
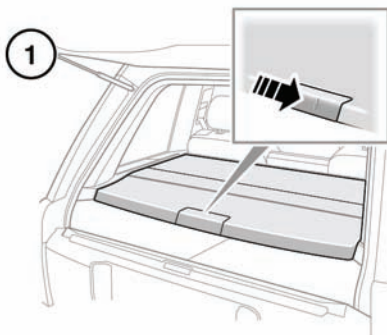
## REAR LOADSPACE STORAGE AREAS



1. Access hatch. The optional DVD player is located here.  
Lift the catch and pull the hatch away from the side of the vehicle.
2. Access hatch. Used for warning triangle and rear fuse box. The emergency fuel filler flap release is located here.  
Lift the catch and pull the hatch away from the side of the vehicle.
3. Left side floor storage.
4. Right side floor storage. The tray is removable. If a detachable tow hitch is fitted, this area is used to store the tow hitch.



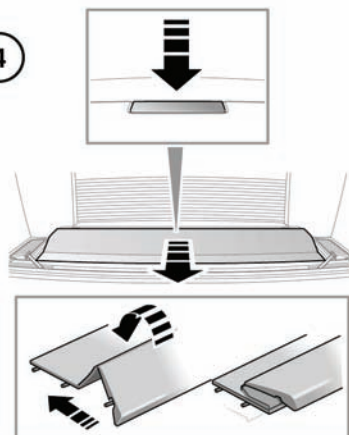
## REAR LOADSPACE COVER



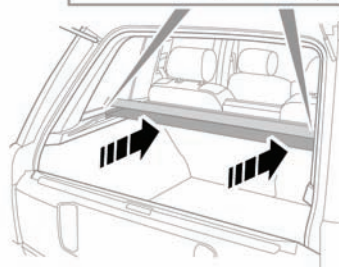
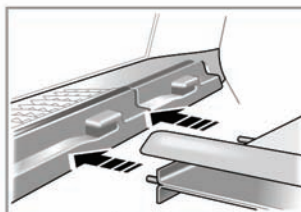
**Never place objects on top of the luggage cover. During an accident or sudden manoeuvre, loose objects can cause serious injury or death.**

1. To fold the loadspace cover, push firmly down and forwards.

4



5



2. Lift slightly and fold forwards.
3. Pull the whole assembly rearwards to disconnect the locating pins. Remove and store safely.



**Do not store the loadspace cover loose in the vehicle.**

SL1441

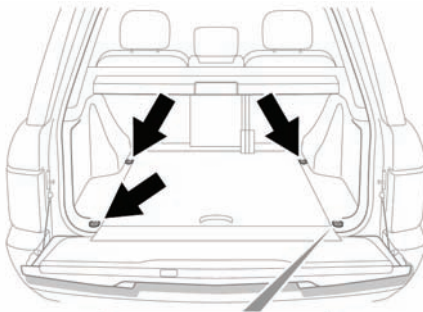


4. If removal from inside the vehicle is necessary, a head restraint may require removal.

From the rear seat, push firmly down on the furthest edge of the cover while pulling it towards the rear seats. The cover will concertina fold allowing access to the loadspace area.

5. To refit the cover, place the assembly in position, engage the pins in the sockets and press firmly to lock the assembly in position.
6. If required, pull the outer edge towards the rear to cover the loadspace area.

## LUGGAGE ANCHOR POINTS



SJ1588

To assist in safely securing large items of luggage, four fixing points are located in the rear loadspace floor.



**All items carried in the luggage area should be properly secured.**

**Note:** A range of approved luggage retention accessories are available from your Land Rover Dealer/Authorised Repairer.

## ROOF RACKS



**A loaded roof rack can reduce the stability of the vehicle, particularly when cornering and during cross winds.**



**Driving off road with a loaded roof rack is not recommended.**

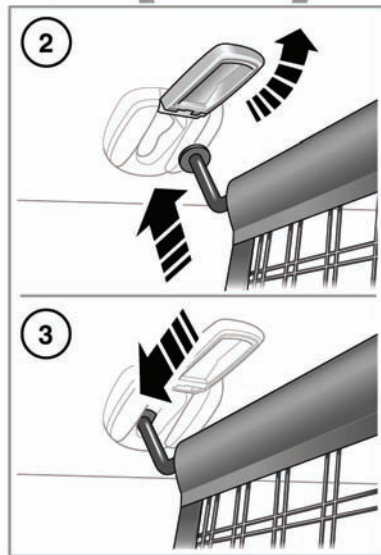
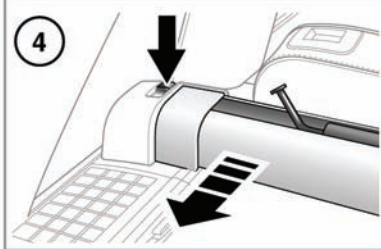
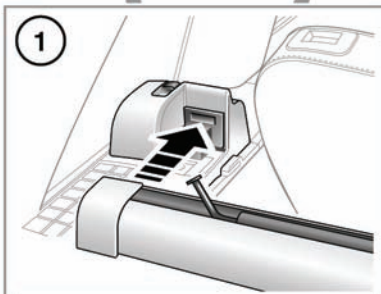
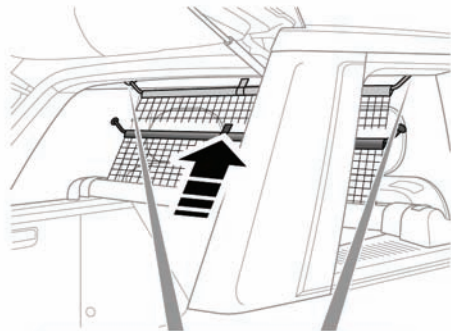
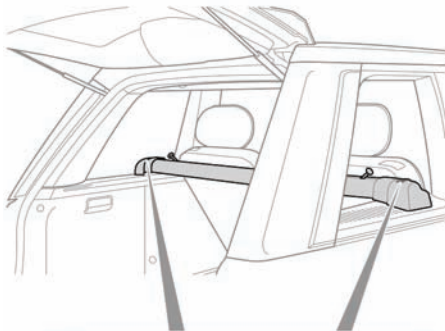
Fit only a roof rack system that is designed for use with your vehicle. For further information, consult your Land Rover Dealer/Authorised Repairer.

The maximum load for a Land Rover approved roof rack system is 100kg (220lb). The weight of the approved roof rack system is not calculated as part of the load.

If an alternative roof rack system is used, the weight of that system must be included as part of the load weight.

Loads must be evenly distributed within the periphery of the rack. After travelling 50km (30 miles) check the security of the roof rack and any load.

### LOADSPACE SAFETY NET



1. To use the optional safety net, first lock the assembly into position behind the top of the rear seats.
2. Open the mounting covers in the roof lining.
3. Pull the net out of the cassette assembly and hook the tabs into the mounting slots.
4. To remove the assembly, press down on the outer locks and move the assembly towards the rear of the vehicle. Store in a safe place.

SL1222

## STEERING COLUMN LOCK

- ❗ During vehicle recovery, the Smart Key must remain inside the vehicle, so that the steering column remains unlocked.

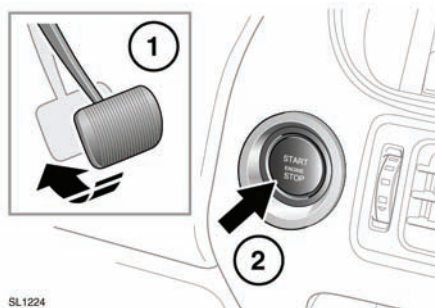
Your vehicle is fitted with an electronic steering column lock. The column unlocks when a Smart Key is detected inside the vehicle.

If any malfunction of the steering column lock occurs, **STEERING COLUMN LOCKED** will be displayed in the message centre. If this occurs:

1. Lock and then unlock the vehicle using the Smart Key.
2. Try again to unlock the steering column lock, by turning the steering wheel gently to the left and right.
3. If the problem persists, seek qualified assistance immediately.

## SWITCHING ON THE IGNITION

To turn on the ignition without starting the engine. Ensure the brake pedal is not depressed, and with a valid Smart Key present in the vehicle, press the START/STOP button and hold until the warning indicators illuminate, then release the button.



- ❗ If the brake pedal is applied when the start/stop button is pressed, the engine will start.

# Starting the engine

## KEYLESS STARTING



**Never start the engine and leave it running when the vehicle is in an enclosed space. Exhaust gases are poisonous and can cause unconsciousness and death if inhaled.**

To start the engine:

- The Smart Key must be inside the vehicle.
- **P** or **N** must be selected.
- Apply the brake pedal.
- Press and release the START/STOP button.

Once the engine has started, the brake pedal can be released if it safe to do so.

## ADDITIONAL INFORMATION FOR DIESEL ENGINE MODELS

Diesel engine models may have an additional delay of up to 12 seconds between the START/STOP button being pressed and the engine starting. An information message will be displayed on the message centre. During this delay period, keep the brake pedal depressed and do not press the START/STOP button a second time. Doing so will cancel the starting procedure.

**Note:** *In very cold conditions it is normal for the engine cranking time to be increased.*

The glow plug warning lamp will remain illuminated until the engine starts.

## IF THE ENGINE FAILS TO START

*Note: If the engine fails to crank when the START/STOP button is pressed and there has been a recent collision, the fuel system inertia switch may have been tripped. Seek qualified assistance.*

### Petrol engines:

If the engine persistently fails to start, make sure the transmission is in **P** or **N** and press the START/STOP button (without applying the brake pedal) to switch on the ignition. Slowly depress the accelerator pedal fully, then hold it in the fully down position and press the START/STOP button with the brake pedal applied. The engine will then begin to crank. Release the accelerator pedal when the engine starts.

If the engine fails to crank, or fails to start, consult your Dealer/Authorised Repairer.

### Diesel engines:

If the engine persistently fails to start, make sure the transmission is in **P** or **N** then press the START/STOP button (with the brake pedal applied). Keep the START/STOP button and the brake pedal pressed until the engine starts, then release.

If the engine still fails to crank, or fails to start consult your Dealer/Authorised Repairer.

### Power assisted steering:

If the engine fails to start, there will be no power assisted steering.

## START/STOP WHILE MOVING



It is not advisable to switch off the engine while the vehicle is moving. However, if a situation arises where engine switch off is urgent, the following procedure applies.

1. Press the START/STOP button for a total of two seconds, or

2. Press the START/STOP button twice within two seconds.

With either method, a warning message will be displayed on the message centre.

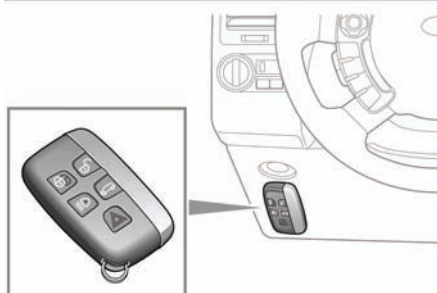
## Rolling restart

1. Initiate by selecting transmission neutral position **N** and pressing the START/STOP button.
2. When the engine starts, select **D**.

## KEYLESS START BACKUP

If the vehicle has been unlocked using the emergency key blade or the Smart Key is not detected by the vehicle, it will be necessary to use the keyless start backup to disarm the alarm and start the engine.

The keyless start backup can only be used when the message **Smart Key Not Found - Refer to handbook** is displayed in the message centre.



SL1901

Position the Smart Key against the underside of the fascia with the buttons facing downwards.

When the Smart Key is positioned in this area, it will be recognised by the vehicle and the message **Smart Key Recognised** will be displayed in the message centre.

Holding the Smart Key in position and with the brake pedal depressed, press and release the START/STOP button to start the engine.

When the engine starts, you no longer need to hold the Smart Key beneath the fascia.

**Note:** If the Smart Key is not recognised or the engine still fails to start, consult your Dealer/ Authorised Repairer

## STOPPING THE ENGINE

Before stopping the engine, ensure that the vehicle is parked safely with the parking brake applied. The gear selector will also need to be in **P**.

Press and release the engine START/STOP button to stop the engine. The audio, telephone and touch screen systems will revert to stand-by mode.

Pressing the START/STOP button again (without pressing the brake pedal), will activate the systems.

## EMISSION CONTROL SYSTEM



**Exhaust fumes contain poisonous substances which can cause unconsciousness and may even be fatal.**

- Do not inhale exhaust gases.
- Do not start or leave the engine running in an enclosed unventilated area.
- Do not drive the vehicle with the taildoor open.
- Do not modify the exhaust system.
- Exhaust leaks should be repaired immediately.
- If exhaust fumes are thought to be entering the vehicle, have it investigated immediately.

Land Rover vehicles are fitted with emission and evaporative control systems. In many countries it is unlawful to tamper, modify or replace such equipment and legal penalties apply if the laws are flouted.

Land Rover Dealers/Authorised Repairers are properly equipped to perform repairs and to maintain these systems.

**Note:** *Running out of fuel can result in a misfire. This can cause damage to the emission control system.*

## DIESEL PARTICULATE FILTER REGENERATION

The DPF is part of the exhaust system. It removes most of the harmful particles from the exhaust emissions and stores them until they are burnt away. Occasionally the DPF requires a regeneration process to clean itself. When regeneration is required a **DPF** message will be displayed on the message centre.

**Note:** *While carrying out the DPF regeneration procedure, observe all relevant speed limits, laws and regulations.*

1. Drive the vehicle until the engine reaches normal operating temperature. Do not leave the engine idling to achieve operating temperature.
2. Drive the vehicle for a further twenty minutes, keeping the road speed above 80km/h (50mph).
3. If successful, the message will extinguish. If not, repeat the procedure.

**Note:** *If after three attempts to achieve regeneration, the message does not extinguish, contact your Land Rover Dealer/Authorised Repairer.*

If the message, **DPF FULL** is displayed in the message centre, contact your Land Rover Dealer/Authorised Repairer as soon as possible.

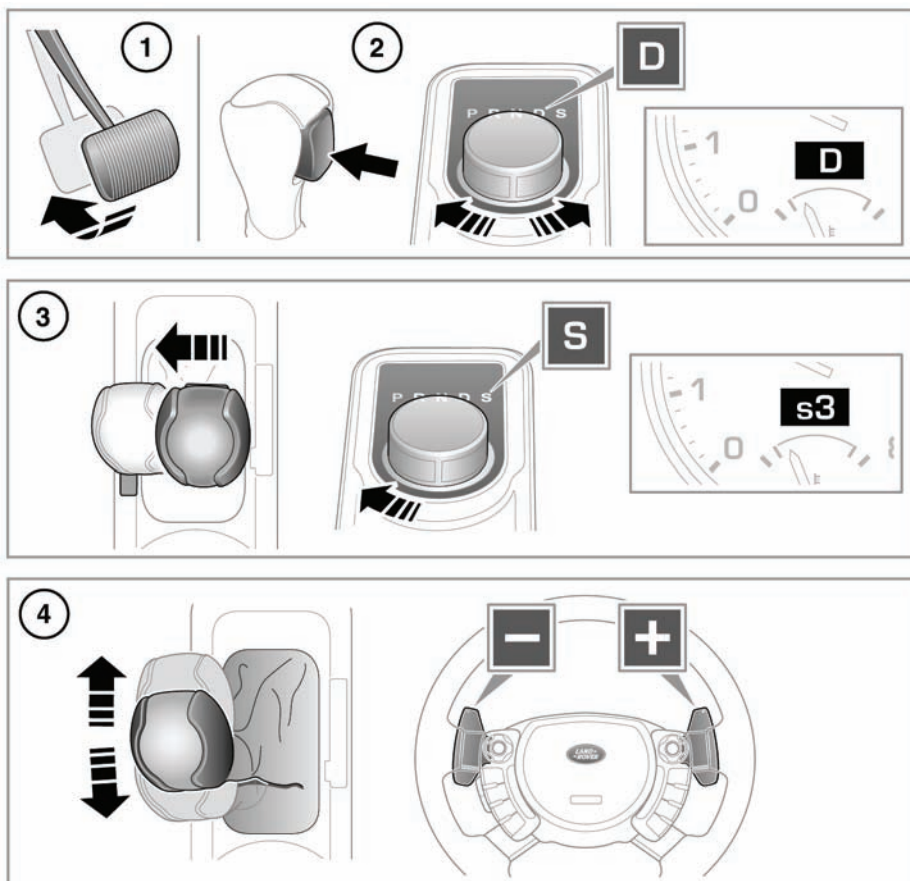


The regeneration procedure produces very high temperatures from the exhaust system. Do not park the vehicle over combustible materials.

## AUTOMATIC TRANSMISSION

Depending on the vehicle specification, there is a choice of gear selection control. The gear selector lever operates in a forward, back and sideways direction. The rotary gear selector

rotates in either direction. When the engine is started, the rotary selector will elevate out of the centre console in readiness for gear selection.



1. To select Drive (**D**) when the vehicle is stationary and engine is running, first apply the foot brake.
2. With the selector lever, press in the release button and move the lever to **D**.

**Note:** If pressure is applied to the selector before the foot brake is applied, the selected gear may not be available. In this situation, remove pressure from the selector lever, ensure that the foot brake is

*applied and select the required gear as described.*

With the rotary selector, rotate to **D**. The paddle shifts can be used in this mode. Gear selection will revert to fully automatic if use of the paddles is not maintained.

**D** will appear in the instrument panel and the LED by the selector will illuminate.

3. To select sport mode with the selector lever, move the lever to the left.

With the rotary selector, press the selector down and rotate to **S**.


**S** will appear in the instrument panel and the LED by the selector will illuminate.


4. CommandShift™ can be used when **S** is selected.

With the selector lever, move the lever forward to move up a gear and back to move down gear. To return to the fully automatic sport mode, move the lever to **D** then back to **S**.

With the rotary selector, use the paddle shifts on the steering wheel for up and down shifts. Pull the left paddle (-) for downshifts and the right paddle (+) for upshifts. To return to the fully automatic sport mode, pull the right paddle for 2 seconds.

5. To return to drive mode move the selector back to the **D** position.

 Do not allow the vehicle to remain stationary for a sustained period, with a gear selected and the engine running.

 This vehicle must not be push or tow started.

## PARK

Use when the vehicle is parked. The transmission will be locked.



**Park (P) or Neutral (N) should be engaged and the parking brake applied when the vehicle is stationary.**



**Always select P and switch off the ignition before leaving the vehicle.**



Never select Park (**P**) when the vehicle is in motion.

## REVERSE GEAR



Never select Reverse (**R**) when the vehicle is in forward motion.

Before selecting reverse gear, ensure the vehicle is stationary and the brakes are applied.

With the selector lever, press in the release button and move the lever to **R**.

With the rotary selector, rotate to **R**.

## NEUTRAL

Disconnects drive to the wheels. Use the parking brake while **N** is selected.

Do not use for vehicle recovery purposes.

## DRIVE



Never select a forward gear when the vehicle is in rearward motion.

Gear changing is fully automatic. Shift points are determined by accelerator pedal position and current road speed.

## SPORT MODE

The transmission will stay in the lower gears for longer, improving mid-range performance. To deselect Sport mode, move the selector back to **D**.



## COMMANDSHIFT™

If CommandShift™ is selected in high range, 1st gear must be used for moving off from stationary. In low range, gears 1, 2 or 3 may be used. This may prove useful in certain off-road driving conditions.

To return to Sport mode after CommandShift has been selected, move the selector back to **D** then back to Sport mode.

The message, **COMMANDSHIFT SELECTED** will appear in the message centre when the transmission is in CommandShift mode.

***Note:** In order to protect the engine, the transmission will automatically change up to prevent over-revving, or down if the engine is labouring.*

***Note:** During sustained braking, if a downshift is made that would result in over-revving the engine, the downshift will be delayed until vehicle speed has reduced sufficiently.*

## KICK-DOWN

Push the accelerator pedal fully down to achieve rapid acceleration in automatic mode. When the pedal is relaxed, normal gear changing will resume.

## ROTARY GEAR SELECTOR

**P** should normally be selected before switching off the engine. If any other gear is selected at turn off, the selector will move to **P** before retracting into the centre console.

If the engine is switched off with **N** selected, the system will wait for 10 minutes before selecting **P**. This time delay allows the vehicle enough time to be conveyed through a car wash.

If the selector fails to rotate to **P** when the engine is switched off, when the engine is next switched on, **P** must be selected before the engine will start.

Do not use rotary gear selector position **P** for vehicle recovery purposes. If your vehicle requires recovery by towing, the recovery must be undertaken by qualified personnel. They must activate the **Emergency Park Release** before towing commences. This procedure is explained in a separate publication for service personnel.

## ROTARY GEAR SELECTOR FAILS TO ELEVATE

If the rotary gear selector is obstructed, remove the obstruction and then start the engine. The selector should elevate as normal.

If the selector still fails to elevate, even if there is no obstruction, a fault in the system is indicated. The selector can still be used in the lowered position. Ensure that **P** is selected before engine switch off. Have the fault rectified at the earliest opportunity.

## TRANSMISSION FAULT

In the event that the transmission develops a fault, a warning message may be displayed in the message centre and only limited gears may become available. You should seek qualified assistance immediately.

## HIGH/LOW RANGE CHANGING

The transmission switch allows selection of high or low range gears.



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 transmission.



SL1442

## 1. High range.

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

## 2. Low range.

**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 **Lo** for normal road driving.

With the vehicle stationary and the engine running, select **N**.

With the transmission switch, select the range required and release. The switch returns to the default position and range change status will be confirmed after several seconds.

## RANGE CHANGE INDICATORS

In high range, the **Hi** range switch indicator is illuminated.



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

illuminated.

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

### Hi to Lo change:

- The **Hi** indicator will be illuminated. The **Lo** range lamp and indicator flash during the change and then illuminate constantly.

- The **Hi** range indicator extinguishes when the change is complete.
- The message **LOW RANGE SELECTED** is briefly displayed in the message centre.

### Lo to Hi change:

- The **Lo** range indicator will be illuminated. The **Hi** range indicator will flash during the change.
- The **Hi** range lamp illuminates constantly when the change is complete.
- The **Lo** range indicator and lamp extinguish when the change is complete.
- The message **HIGH RANGE SELECTED** is briefly displayed in the message centre.

## RANGE CHANGING ON THE MOVE

The recommended method of changing range is with the vehicle stationary. For experienced off-road drivers, a range change on-the-move can be accomplished, as detailed below.

### Hi to Lo change:

- With the vehicle slowing down, and travelling between 40 km/h (24mph) and 3 km/h (2 mph), select **N**.
- Press the transmission switch (2) and release it.
- Wait for the range change to be completed (this may take several seconds). Once complete, select **D** or **S**.

## CHANGING FROM LOW TO HIGH RANGE

With the vehicle travelling no faster than 60 km/h (38 mph), select **N**. Press the transmission switch (1) and release it.

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

Now select **D** or **S**.

## DYNAMIC STABILITY CONTROL (DSC)

DSC is automatically enabled each time the engine is started, and is automatically enabled by some of the Terrain Response special programs.



**The vehicle is not designed for cornering at the same speed as conventional passenger cars any more than a low-slung sports car is designed to perform satisfactorily under off-road conditions. If at all possible, avoid sharp turns or abrupt manoeuvres. As with other vehicles of this type, failure to operate the vehicle correctly may result in loss of control or vehicle rollover.**

## DSC WARNING LAMP



The DSC warning lamp in the instrument panel illuminates briefly when the ignition is turned on.

If the warning lamp flashes rapidly during driving, the system is active.

A fault with the DSC or ETC systems is indicated by the warning lamp illuminating and an associated warning message. The vehicle can still be driven, but without DSC or ETC assistance. Seek qualified assistance as soon as possible.

## DISABLING DSC



**Safety may be reduced by inappropriately disabling DSC. In the majority of driving situations, and particularly on-road, it is recommended that you do not disable DSC.**

In some driving conditions it may be appropriate to disable DSC to improve traction. These conditions include:

- Rocking the vehicle out of a hollow or out of a soft surface.
- Pulling away in deep snow, or a loose surface.
- Driving through deep sand or mud.
- Driving along tracks with deep longitudinal ruts.



To disable DSC, press and briefly hold the DSC OFF switch (the DSC OFF warning lamp will illuminate continuously). Deactivating DSC also reduces the level of traction control intervention and may lead to an increase in wheel spin.

## RE-ENABLING DSC

DSC is re-enabled by one of the following:

- Press and briefly hold the DSC OFF switch.
- Stop and start the engine.
- Select a new Terrain Response special program.

## TRAILER STABILITY ASSIST

When the trailer electrical socket is in use and the vehicle is pulling a trailer, trailer stability assist monitors vehicle motion above 60km/h (37mph). If undesirable motion is detected, engine and braking management systems will operate to stabilise the vehicle and trailer.

**Note:** *Trailer stability assist will not operate while DSC is switched off.*

## ELECTRONIC TRACTION CONTROL (ETC)

ETC operates in conjunction with Dynamic Stability Control (DSC) and is designed to assist when one or more wheels have lost traction.

If a wheel loses traction, ETC will operate the brake on that wheel until it regains traction. The warning indicator will flash to inform the driver that ETC is operating.

**Note:** *When DSC is deactivated, ETC operation is restricted to wheel braking. ETC will no longer affect engine torque output.*

## AUTOMATIC SYSTEMS

ETC will automatically enable settings to operate in conjunction with certain selected Terrain Response programmes. Sand Launch and Rock Crawl Precharge are just two examples. Sand Launch will control wheel spin in soft ground even if full throttle is applied, allowing a gradual and controlled pull away. Rock Crawl Precharge applies a minimal amount of brake pressure while traversing obstacles at very low speed. This improves vehicle response when a wheel is cresting an obstacle.

These settings are implemented without being overtly apparent.

## ADAPTIVE DYNAMICS

Ride comfort and control is optimised by the Adaptive Dynamics system. It adjusts vehicle settings based on inputs from both the road and driver.

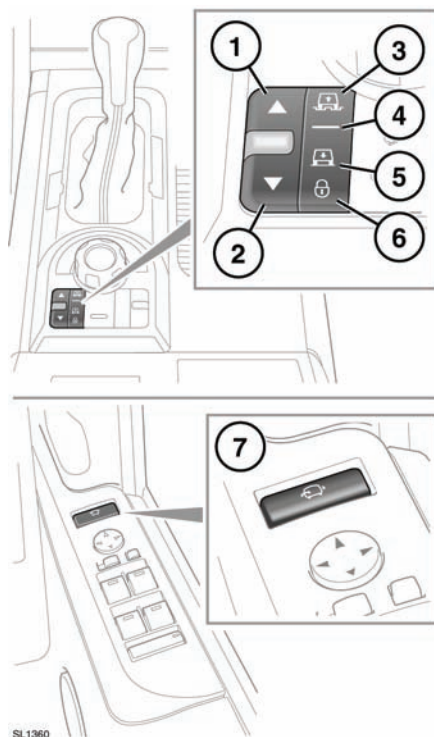
If a fault is detected, **ADAPTIVE DYNAMICS FAULT** will be displayed in the message centre, accompanied by a warning triangle. If the message is displayed several times, have it checked by your Land Rover Dealer/Authorised Repairer.

## AIR SUSPENSION SYSTEM



Ensure that the vehicle is clear of people and obstacles before lowering the suspension. The difference between Off-road height and Access height is 105mm (4.1 in).

The air suspension system may be used to raise or lower the height of the vehicle, using the air suspension control switch.



1. Raise switch. The arrow will illuminate when a height change is in progress.
2. Lower switch. The arrow will illuminate when a height change is in progress.

3. Off-road height indicator. Off-road height is 55mm (2.2in) higher than normal height.
4. Normal height indicator.
5. Access height indicator. Access height is 50mm (2.0in) lower than normal height.
6. System lock indicator.
7. Driver's door panel switch. Access height can be selected directly with a single press.

**Note:** The system may raise or lower the vehicle automatically (e.g. if a Terrain Response program requires it, or if the vehicle is travelling at high speed).

Changes to the height of the vehicle must be made when all doors are closed and the engine is running. Remote operation does not require the engine to be running. See **REMOTE OPERATION** (page 90). If a door is opened during a height change, the height change will be suspended. If the door is closed within 90 seconds, the height change will then complete. If the doors are not closed in time, the desired height should be reselected once the doors are closed. Driving off will return the vehicle to normal height.

**Note:** If the air suspension is used many times in succession, the speed of operation may slow.

## SELECTING OFF-ROAD HEIGHT

Press the raise switch 1 at any speed up to 40 km/h (24mph). If vehicle speed exceeds 50 km/h (30mph), a warning will appear in the message centre and the system will return to normal height.

### EXTENDED OFF-ROAD HEIGHT

If grounded in severe off-road conditions, the system may automatically enter Extended mode. The off-road height indicator flashes and a message will be displayed in the message centre. In extended mode, the suspension will raise above off-road height to assist in clearing the obstacle.

Once extended mode height has been achieved, the driver may request additional lifting if required. This is achieved by pressing and holding the raise switch for longer than 3 seconds while pressing the brake pedal.

To cancel extended mode, press the lower switch 2.

Extended mode will automatically be cancelled if the vehicle speed remains greater than 5 km/h (3 mph) for 30 seconds.

**Note:** *Extended mode cannot be selected manually.*

### SELECTING ACCESS HEIGHT

To select access height from normal height, press the lower switch 2. To select access height from Off-road height, press the switch once, then a second time while lowering is in progress. **ACCESS HEIGHT SELECTED** will be displayed in the message centre.

If the vehicle speed is greater than 20 km/h (12 mph), the system will wait for the speed to decrease. If it does not fall below this speed within 1 minute, the height change will be cancelled.

Once the speed falls below 20 km/h (12 mph) the vehicle will be partly lowered. When the speed falls below 8 km/h (5 mph) within 1 minute, full access height will be reached.

**Note:** *Access height may be selected up to 40 seconds after the ignition is switched off, provided the driver's door has not been opened.*

When vehicle speed rises above 8 km/h (5 mph) for five seconds, the vehicle will return to the height access height was selected from.

### CRAWL MODE (LOCKED ACCESS HEIGHT)

When the vehicle is at Normal height and travelling less than 35 km/h (22mph), or at Access height, press the lower switch for longer than 3 seconds to lock the vehicle at access height. The system lock indicator (5) will illuminate and **SUSPENSION LOCKED AT ACCESS HEIGHT** will be displayed in the message centre.

The vehicle may then be driven slowly at access height, to assist with manoeuvring in confined areas (e.g. multi-storey car parks).

To cancel crawl mode, press the raise switch for longer than 1 second. The system lock indicator will extinguish and if the vehicle is travelling faster than 10 km/h (6 mph) it will return to normal height.

Crawl mode will be cancelled automatically if the vehicle speed exceeds 40 km/h (24 mph).

### REMOTE OPERATION



**The Smart Key can be operated from inside or outside the vehicle. It is therefore important that it is kept out of the reach of children at all times.**



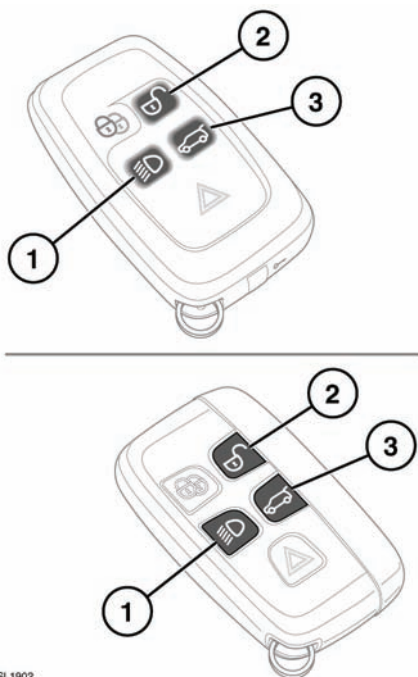
**When operating the Smart Key from inside the vehicle, make sure that an adult checks for obstructions under the vehicle and supervises the raising or lowering process.**

**!** Care should be taken with all height changes, when a trailer is attached to the vehicle.

The buttons on the Smart Key may be used to operate the air suspension system, allowing the vehicle to be raised or lowered remotely. This may be useful in attaching a trailer or loading the vehicle.

To change the suspension height using the Smart Key, the vehicle must be stationary, all the doors closed and the hazard warning lamps switched on.

If the starting height is above or below normal height, movement will cease when normal height is reached. Release the Smart Key buttons and press again to continue.



SL1902

To raise the vehicle, press and hold buttons **1** and **2** simultaneously

To lower the vehicle, press and hold buttons **1** and **3** simultaneously.

## FOOT BRAKE



**Do not rest your foot on the brake pedal while the vehicle is in motion.**



**Never allow the vehicle to coast (freewheel) with the engine turned off. The engine must be running to provide full braking assistance. The brakes will still function with the engine off, but far more pressure will be required to operate them.**



**If the red brake warning indicator illuminates, safely bring the vehicle to a stop, as quickly as possible and seek qualified assistance.**



**Never place non-approved floor matting or any other obstructions under the brake pedal. This restricts pedal travel and braking efficiency.**

Driving through heavy rain or water can have an adverse effect on braking efficiency. Under such circumstances, it is recommended that you lightly apply the brakes intermittently, to dry the brakes.

## ABS WARNING LAMP



The ABS warning lamp illuminates briefly when the ignition is turned on.

If this amber warning lamp illuminates when driving (accompanied by an associated warning message), drive with extra caution, avoid heavy braking and seek qualified assistance as soon as possible.



**ABS cannot overcome the physical limitations of stopping the vehicle in too short a distance, cornering at too high a speed or the danger of aquaplaning.**

**Do not take risks that could affect the safety of yourself, your passengers and any other road users. It is the driver's responsibility to drive within normal safety margins, giving due consideration to prevailing weather and traffic conditions.**

## STEEP SLOPES

If the vehicle is stationary on a steep, slippery slope, it may begin to slide even with the brakes applied. This is because without wheel rotation, the ABS cannot determine vehicle movement.

To counteract this, briefly release the brakes to allow some wheel rotation. Then re-apply the brakes to allow ABS to gain control.

## EMERGENCY BRAKE ASSIST (EBA)

If the driver rapidly applies the brakes, EBA automatically boosts the braking force to its maximum, in order to bring the vehicle to a halt as quickly as possible. If the driver applies the brakes slowly, but conditions mean that ABS operates on the front wheels, EBA will increase the braking force in order to apply ABS control to the rear wheels.

EBA stops operating as soon as the brake pedal is released.



The amber brake warning lamp illuminates briefly when the ignition is turned on.

A fault with the EBA system is indicated by the amber brake warning lamp illuminating and an associated warning message. Gently and safely stop the vehicle and seek qualified assistance.



## ELECTRONIC BRAKE DISTRIBUTION (EBD)

EBD controls the balance of braking forces supplied to the front and rear wheels, in order to maintain maximum braking efficiency.

If the vehicle has a light load (only the driver in the vehicle for example), EBD will reduce the braking force applied to the rear wheels. If the vehicle is heavily laden, EBD will allow greater braking force to the rear wheels.



The red brake warning lamp illuminates briefly when the ignition is turned on.

A fault with the EBD system is indicated by the red brake warning indicator illuminating and an associated warning message. Gently and safely stop the vehicle and seek qualified assistance.

## ELECTRIC PARKING BRAKE (EPB)



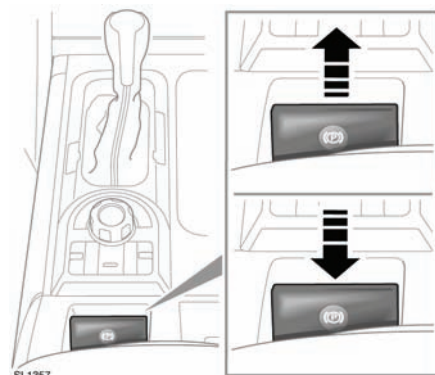
The parking brakes operates on the rear wheels. Therefore, secure parking of the vehicle is dependent on being on a hard and stable surface.



Do not rely on the parking brake to operate effectively, if the rear wheels have been immersed in mud or water.

**Note:** If the vehicle is used in severe off-road conditions (e.g. wading, deep mud, etc.), additional maintenance and adjustment of the parking brake will be required. Consult your Land Rover Dealer/Authorised Repairer.

## APPLYING THE EPB MANUALLY



With the vehicle stationary, pull up the lever (arrowed) and release it.



The parking brake warning lamp will illuminate. It is important to confirm that the lamp is continuously illuminated (not flashing), as this indicates the brake has been correctly applied. If the lever is operated when the vehicle speed is less than 3 km/h (2 mph) the vehicle will be brought to an abrupt stop. The stop lamps will not be illuminated.

If a fault is detected the warning lamp will flash and a **PARKBRAKE** message will be displayed in the message centre.

**Note:** The red brake warning indicator will continue to be illuminated for at least ten seconds after the ignition has been turned off.

## APPLYING THE EPB AUTOMATICALLY

EPB will be applied automatically if the ignition is switched off and the vehicle speed is below 3 km/h (2 mph).

To prevent automatic operation, when the vehicle is stationary, press and hold the EPB switch in the release position. Within 5 seconds, switch off the ignition and continue to hold the EPB switch for a further 2 seconds.

## DYNAMIC OPERATION



Driving the vehicle with the parking brake applied, or repeated use of the parking brake to slow the vehicle, may cause serious damage to the brake system.

In an emergency, with the vehicle travelling more than 3 km/h (2 mph), pulling on the EPB lever and holding gives a gradual reduction in the speed. The brake warning indicator will illuminate accompanied by a warning tone and a **PARKBRAKE** message will be displayed in the message centre. The stop lamps will illuminate.

## RELEASING THE EPB MANUALLY

With the ignition turned on, press the brake pedal and press down on the EPB lever. This will release the electronic parking brake.

## RELEASING THE EPB AUTOMATICALLY

If the vehicle is stationary with the EPB applied and the transmission in **D** or **R**, pressing the accelerator will release the EPB and allow the vehicle to move off.

With the transmission in CommandShift™ mode, automatic release is available in 1st and 2nd gears in High range and 1st, 2nd and 3rd in gears Low range.

**Note:** Automatic release of the EPB is possible only when the driver's door is closed or the driver's seat belt is buckled.

To delay automatic release, hold the EPB lever in the applied position, and release at the desired point.

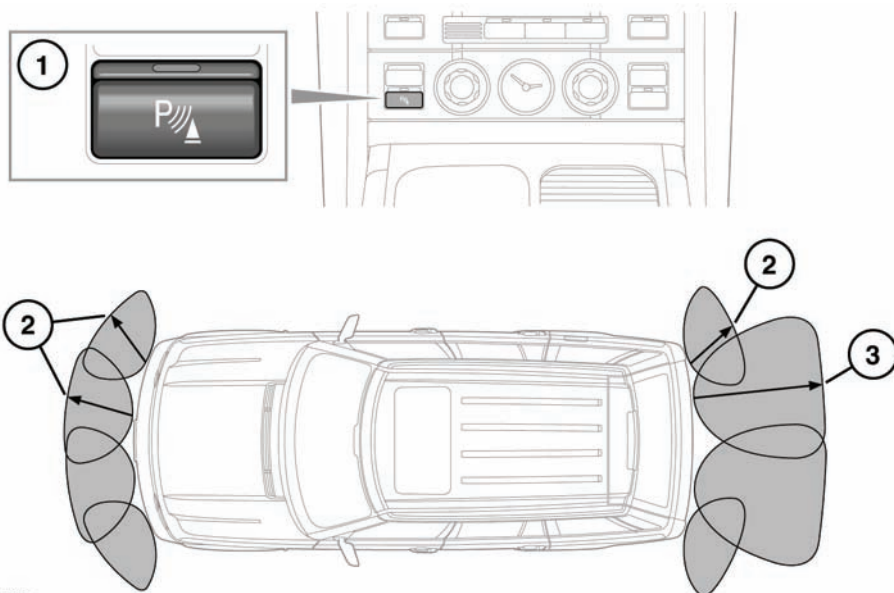
The parking brake system gradually reduces the system load to assist a smooth drive away. If the reduction in system load causes the vehicle to move after a valid gear is selected, full load will be automatically re-applied to the parking brake.

To override the load reducing feature of the EPB, manually apply the parking brake after selecting a gear.

In the event of a failure, a **PARKBRAKE** message will be displayed in the message centre.

At the start of a journey, EPB release times may be extended when changing from **P** or **N**. This is to allow for increased gear engagement times.

## USING THE PARKING AID



SL1227



**Parking aids may not detect moving objects such as children and animals, until they are dangerously close. Always use extreme caution when manoeuvring.**



PDC sensors may not detect some obstructions (e.g. narrow posts, small objects close to the ground and some objects with dark non-reflective surfaces).

1. When reverse gear is selected, the front and rear parking sensors are activated automatically. The switch indicator will illuminate.

To manually activate the front sensors press button **1**. A short confirmation tone will be heard and the switch indicator will illuminate.

To turn off the system when active, press button **1**. The switch indicator will extinguish.

2. The range of the parking aid sensors varies between the front, rear and corners of the vehicle. The front sensors and rear corner sensors have an approximate range of 600 mm (24 inches).
3. The two centre rear sensors have an approximate range of 1500 mm (60 inches).

The front sensors will remain active as long as the vehicle's speed does not exceed 16 km/h (10 mph).

In vehicles fitted with automatic transmission, selecting **N** from **R** will keep front and rear sensors active.

## Parking aid

When objects are detected, the parking aid emits a warning tone which increases in frequency as the vehicle gets closer to the object and then becomes constant when the obstacle is within 300 mm (12 inches).

**Note:** *The front parking aid provides an audible proximity warning when driving forwards and when reversing.*

### TOWING

The rear sensors are automatically disabled when a trailer is connected.

### SENSOR CARE



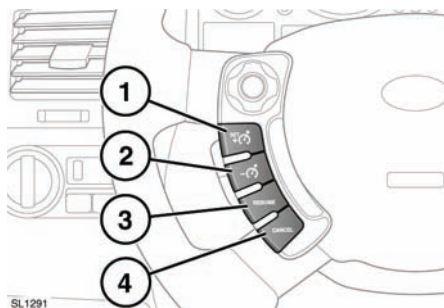
When washing the vehicle do not aim high pressure water jets directly at the sensors. Do not use abrasive materials or hard/sharp objects to clean the sensors. Only use approved vehicle shampoo.

The sensors should be kept clean to maintain accuracy and performance.

### SYSTEM FAULT

If a system fault is detected, a long high-pitched tone will sound, and the switch indicator will flash. Contact your Dealer/Authorised Repairer as soon as possible.

## USING CRUISE CONTROL



1. Set target speed, or increase speed.
2. Decrease set speed.
3. Resume set speed.
4. Suspends cruise control operation without erasing memorised speed.

**Note:** Cruise control is not available when using Hill Descent Control, when a Terrain Response special program has been selected or when Low range is in use.

**Note:** Do not use cruise control when driving off-road.

**Note:** Do not use cruise control with **SPORT** mode selected.

## SET OR INCREASE CRUISE SPEED



When setting the cruise control to the speed limit, it is important to remember that it is possible for the vehicle speed to increase when travelling downhill. This may result in the vehicle speed exceeding the speed limit.

**Note:** Cruise control can be engaged only at speeds in excess of 32km/h (20mph).

Accelerate until the desired speed is reached, then press control (1). This sets the vehicle speed into the system's memory. Cruise control will now maintain that speed.



The cruise control warning lamp will illuminate to confirm cruise control is operational.

Speed can still be increased using the accelerator pedal. As soon as the accelerator pedal is released, the vehicle speed will return to the set cruising speed.

**Note:** If the accelerator pedal is pressed for more than 5 minutes, cruise control will be cancelled.

To increase the set cruise speed, press and hold control (1). Release the switch when the desired speed is reached, the new speed will be set and maintained.

The speed can be increased in steps of 2km/h (1mph), by briefly pressing control (1).

Speed can also be increased using the accelerator. When the desired speed is reached press control (1) to set and maintain the new speed.

## DECREASING CRUISE SPEED

To reduce cruising speed, press and hold control (2). Release the switch when the desired speed is reached, the new speed will be set and maintained.

The set speed can be decreased in steps of 2km/h (1mph), by briefly pressing control (2).

## RESUMING AND SUSPENDING CRUISE CONTROL

To resume cruise control at the previous set speed, press control (3).

Suspend with a single press of control (4).

## Cruise control

Cruise control will also be suspended if the brake pedal is pressed or the gear selector is moved to **N**.

**Note:** *The set speed can be erased only by switching off the ignition.*

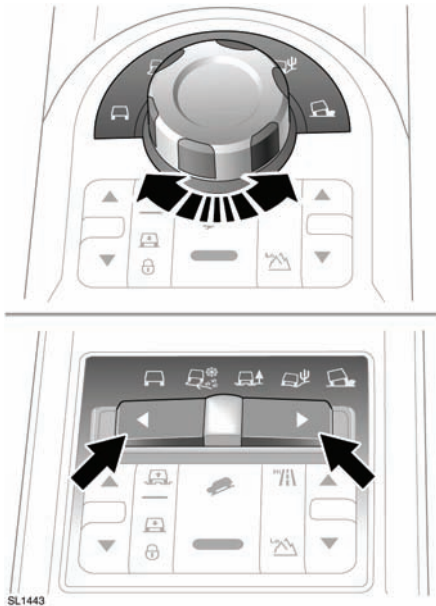
## BEFORE DRIVING OFF-ROAD

Before venturing off-road, it is absolutely essential that inexperienced drivers become fully familiar with the vehicle's controls. In particular, CommandShift™, Hill Descent Control (HDC) and the Terrain response system.

Basic guidance for Off-Road driving can be found in the Land Rover Off-Road Driving handbook. This is a free download at: [www.ownerinfo.landrover.com](http://www.ownerinfo.landrover.com).

Also, Off-Road training is available at Land Rover Experience centres. Further information is available at: [www.landroverexperience.com](http://www.landroverexperience.com).

## TERRAIN RESPONSE OPERATION



Depending on the vehicle specification, there is a choice of Terrain Response control.

When the vehicle is fitted with a gear selector lever, Terrain Response selection is via a rotary control. There are five Terrain Response programs marked around the control.

When the vehicle is fitted with a rotary drive selector, Terrain Response selection is via a rocker switch. Use the switch to move forward or back through the five program selections.

Information relating to the suitability of each selected program on different types of surface, is given on the touch screen, via the **4 x 4 Info** soft key. Touch the terrain response icon, then the information icon. The displayed text is relevant to the currently selected program.

## GENERAL PROGRAM (SPECIAL PROGRAMS OFF)



This program is compatible with all on and off-road conditions. If not already active, it should be selected before driving on surfaces which are similar to a hard road surface. Dry cobbles, tarmac, dry wooden planks, etc., all fall into this category.

This program should be selected once the need for a special program has passed. Once the special program has been deselected, all of the vehicle systems will return to their normal settings except HDC. HDC will remain active if it was selected manually.

## GRASS-GRAVEL-SNOW



This program should be used where a firm surface is covered with loose or slippery material.

**Note:** For deep gravel it is recommended that the Sand program is selected.

**Note:** If the vehicle is unable to gain traction in deep snow, switching DSC off may help. DSC should be switched on again, as soon as the difficulty is overcome.

## MUD-RUTS



This program should be used for crossing terrain that is muddy, rutted, soft or uneven.

Low range is recommended for this program and if not selected, the message centre will prompt you.

If the Mud-Ruts program and Low range are selected together, the vehicle ride height will be raised automatically.

## SAND



This program should be used for terrain which is predominantly soft dry sand or deep gravel.

**Note:** *If the vehicle is unable to gain traction in extremely soft, dry sand, switching DSC off may help. DSC should be switched on again as soon as the difficulty is overcome.*

If the sand to be crossed is damp/wet, and sufficiently deep to cause the wheels to sink into the surface, the Mud-Ruts program should be used.

## ROCK CRAWL



This program should be used for terrain which is predominantly rocky, including for crossing river beds with submerged rocks.

This program provides good low-speed control.

Rock crawl can only be selected in Low range. If the selection is made while in High range, the message centre will prompt you to select Low range.

## WADING

The maximum advisable wading depth is 700mm (27.6in). If the vehicle remains stationary in water above the door sill level, severe electrical damage may occur.



Do not switch off the engine when wading and avoid stopping. If the engine stalls, restart immediately.

If water has entered the engine air intake, switch off immediately. The vehicle **must** be recovered from the water and be transported to a Land Rover Dealer/Authorised Repairer.

## DRIVER OVERRIDE OPTIONS

Although Dynamic Stability Control is automatically engaged when a special program is selected, it can be turned off if required.

Hill Descent Control (HDC) and air suspension height change will be automatically engaged for some terrain response programs. If required, they can be deselected or engaged independently of terrain response.

The HDC status will be displayed on the message centre whether it is engaged, or disengaged, by the system or by the driver.

Gradient Acceleration Control is one of the automatic systems incorporated into Terrain Response. It is not active while HDC is operating. At any other time when the vehicle may accelerate due to a gradient, system generated brake pressure will temporarily limit that acceleration, giving the driver time to establish control.

Hill Start Assist is also applied automatically. The system operates in a similar manner to Gradient Release Control but does not require HDC to be active. See **GRADIENT RELEASE CONTROL (GRC), 111**.



## SYSTEM DIFFICULTIES



Use of an incorrect program will impair the vehicle's response to the terrain and can reduce the life of the suspension and drive systems.

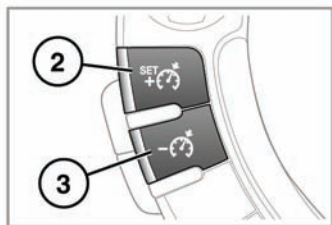
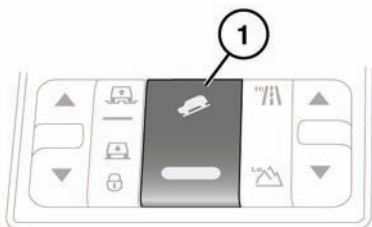
If the system becomes partially inoperable for any reason, it may not be possible to select special programs.

If a participating vehicle system becomes temporarily inoperable, the General program will be automatically selected. Once the system returns to normal operation, the previously active program will be re-activated unless the ignition has been turned off in the mean time.

If you try to select an inappropriate special program (e.g. selecting Rock crawl while in High range), the relevant indicator will flash amber and the message centre will provide further information. If the appropriate action is not taken within 60 seconds, the warnings will cease and the message centre will show the active program.

If the system becomes completely inoperable, all of the special program indicators will be switched off and a relevant message will be displayed in the message centre.

## SELECTING HDC



1. Press to switch HDC on and off.
2. Press to increase the set speed.
3. Press to decrease the set speed.

HDC can be selected at speeds below 80km/h (50mph) but will not activate until vehicle speed drops to less than 50km/h (30mph).

The green warning lamp in the message centre will illuminate while HDC is active.

HDC can be used in **D**, **R** or CommandShift **1** when in Hi range and in **D**, **R** and all CommandShift gears when in Lo range. When in **D**, the vehicle will select the most appropriate gear.

**Note:** HDC is automatically selected by some of the Terrain response special programs.

To select HDC, press and release the HDC on/off switch (1).

If the HDC lamp flashes, HDC has been selected but is not operating. This is caused by the system's operating conditions not being met (e.g. vehicle speed too high).

If HDC is deselected while operating (either manually or due to a fault developing), the HDC lamp will flash and the system will fade out, allowing the vehicle speed to gradually increase.

If the vehicle speed exceeds 80km/h (50mph) HDC will disengage and the HDC lamp will extinguish.

**Note:** HDC is automatically deselected if the ignition is switched off for more than 6 hours.

## HDC OPERATION

With HDC engaged, the speed of descent can be altered using the cruise control steering wheel switches, as follows:

- To increase speed press and hold the + switch (2) until the desired speed is achieved. Maximum HDC descent speed is 20km/h (12mph) in Low range and 30km/h (19mph) in High range.
- To decrease speed press and hold the - switch (3) until the desired speed is achieved.

**Note:** HDC can achieve a lower descent speed in Low range gears.

When the switch is released, the selected speed will be maintained. The target speed will be displayed in the message centre.

To increase or decrease speed gradually, tap the + or - switch as required. Each tap of the switch will increase/decrease the speed in increments/decrements of 0.5 km/h (0.3mph).

The accelerator pedal can also be used to increase speed, up to the threshold in each gear.

**Note:** Each gear has a pre-determined minimum speed.

Descent speed will only increase on a slope steep enough to provide additional momentum. Therefore, use of the + switch on a gentle slope may not increase the speed.

If the brake pedal is depressed, HDC will be overridden and the brakes will operate as normal. When the brake pedal is released, HDC will resume control of the descent.

If HDC is switched off during a descent via the brake pedal, HDC assistance will fade out gradually. This is to prevent loss of control if HDC is switched off in error. HDC will resume control when switched back on if assistance is still required, but at the speed the vehicle is travelling when the brake pedal is released.

When HDC is not selected, the automatic Gradient Acceleration Control (GAC) will intervene to limit downhill acceleration on a steep descent. If the DSC lamp illuminates and a GAC message is displayed, seek qualified assistance as soon as possible.

### GRADIENT RELEASE CONTROL (GRC)

With HDC activated, if the vehicle is stopped on a slope using the foot brake, GRC will become active (except in Terrain response Sand program). During a hill ascent when the foot brake is released GRC will automatically delay and graduate the brake release. This allows time for the foot to be moved from the brake pedal to the accelerator so that the vehicle can move smoothly away. When descending a hill, a similar brake hold and gradual release is employed to provide a smooth transition into HDC control.

GRC operates in forward and reverse gears and requires no driver intervention.

When HDC is not selected, the automatic Hill Start Assist will aid smooth transition from footbrake release to moving away in the same manner as GRC.

### BRAKE TEMPERATURE

In extreme circumstances, the HDC system may cause brake temperatures to exceed their pre-set limits. If this occurs the warning **HDC TEMPORARILY UNAVAILABLE** will be displayed in the message centre. HDC will then fade out and become temporarily inactive.

Once the brakes have reached an acceptable temperature, the message will disappear (or the warning indicator will extinguish) and HDC will, if required, resume operation.

### SYSTEM FAULT

If a fault is detected in the HDC system, **HDC NOT AVAILABLE SYSTEM FAULT** will appear in the message centre.

If the fault is detected whilst the system is operating, HDC assistance will fade out.

If a fault is detected, contact your Land Rover Dealer/Authorised Repairer as soon as possible.

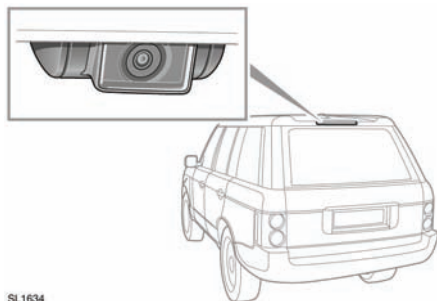


**Do not attempt a steep descent if HDC is inoperative or warning messages are displayed.**

### REAR VIEW CAMERA



**It remains the driver's responsibility to detect obstacles and estimate the vehicle's distance from them when reversing.**



SL1634

When Reverse gear is selected, the touch screen automatically displays the view to the rear of the vehicle.

Overlaid on the rear view image are coloured dashed lines representing the perimeter of the vehicle, solid lines predicting the path of the vehicle (based on the position of the steering wheel) and the distance information from the Parking aid system.

**Note:** A return icon is displayed in the bottom right hand corner of the touch screen. Touch this to revert to the previously viewed screen.

Rear view camera display on the touch screen will discontinue when either of the following apply:

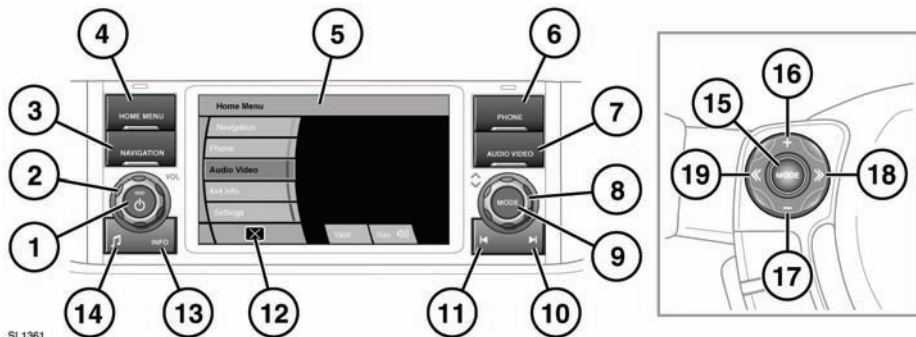
- Drive is selected for longer than 15 seconds.
- Drive is selected and/or vehicle speed is greater than 11 mph (18 km/h).

### CAMERA CLEANLINESS

Clean the camera in accordance with the guidelines given in the Maintenance section. See 209, **CLEANING THE EXTERIOR**.

## OVERVIEW

*Note: Physical controls on the audio fascia are referred to as hard keys. Virtual buttons on the touch screen are referred to as soft keys.*



SL1361

1. On/off. The first time of switching on will display the **Home Menu**. Subsequent switch on will display the last used screen or menu.
2. Volume. Maximum volume is restricted if the engine is turned off.
3. **NAVIGATION**. Press to display the Navigation menu.
4. **HOME MENU**. Press for direct access.
5. Touch screen Home Menu.
6. **PHONE**. Press to display the Phone menu.
7. **AUDIO VIDEO**. Press to display the Audio/Video menu.
8. Scroll up/down a menu.
9. **MODE**. Press to display modes. Rotate the control to make a selection.
10. Search up/increase. Press to select the next radio station frequency up or next track on the chosen audio source.
11. Search down/decrease. Press to select the next radio station frequency down or previous track on the chosen audio source.
12. Touch screen turn off. Touch the blank screen to turn on again.
13. **INFO**. Briefly press to turn on TA (Traffic Announcement). The **TA** indicator will appear in the information display. When a selected radio station is capable of providing traffic information, **TP** will also be displayed. When a traffic message is received, **TRAFFIC** will alternate with the station name.  
Press and hold to select **NEWS**. This feature works in the same manner as **TA**.  
To cancel an announcement, press **INFO**.
14. Tone. Press to display the Tone menu.
15. Mode select.
16. Volume up.
17. Volume down.
18. Search up.
19. Search down.

## HOME MENU

Press hard key. Selection of **Navigation**, **Phone** and **Audio Video** menus can be made from this menu or from hard keys.

Selection of the **4 x 4 Info** and **Settings** menus can be made only from the **Home Menu**.

**Valet** is an area for applying security settings to the luggage compartment, glove box and touch screen functions when you are passing the vehicle to another person.

**Timed climate** can be set like an alarm clock to activate heating or ventilating for a 30 minute period.

**Valet** and **Timed climate** can also be assessed via the **Vehicle Settings** menu.

**Rear Entertainment** will access the RSE Supervisor screen. This gives control over all rear screen activity.

**Cameras** gives access to the surround camera system. This is described in the **Camera systems** section of the handbook.

## SETTINGS

Settings can be adjusted to suit your personal requirements.

From the **Home Menu**, touch the **Settings** soft key. Select a category soft key.

## SYSTEM SETTINGS

Touchy to change the display language, to adjust audible feedback when a soft key selection is made, and to adjust the clock time and date settings. Use the scroll soft keys to view selection choices. When a change is made, confirm it by touching the **OK** softkey.

**Note:** *The navigation system language must be set separately. When Navigation is selected, touch the **Language** soft key on the **CAUTION** screen.*

## SCREEN SETTINGS

Touch to adjust screen brightness. The **Reset** soft key will return brightness to the centre setting.

## VEHICLE SETTINGS

**Valet mode** and **Timed climate** can be selected.

At times when another person will be driving your vehicle during your absence, e.g., a parking attendant, you may wish to use the security settings for luggage compartment, glove box and touch screen.

Touch the **Valet** soft key. Use the keypad to enter a four digit code. Cancel any entered number with the **C** soft key. Touch **OK** to enter the code. Enter the same code again and touch **OK** to confirm.

This process will lock the luggage compartment and glove box and limit touch screen functions.

**Note:** *Remember to take the emergency key blade with you to ensure security is complete.*

When you take back the vehicle, enter your four digit code on the **Valet Mode** screen. Touch **OK** to confirm. The security settings will be turned off.

**Note:** *If you forget your four digit code, only a Land Rover Dealer/Authorised Repairer will be able to deactivate it.*

**Timed climate** can be set to activate for 30 minutes prior to entering the vehicle if the external temperature is between 15°C (59°F) and -20°C (-4°F). Two settings can be programmed to operate within a 24 hour period. Alternatively, the manual soft keys can be used to activate the system immediately.

To set a time:

1. Select **Timed Climate**.

2. Select **Set** and set a time.
3. Select **OK** or **Cancel timer**.

To cancel a set time, touch the appropriate **Set** soft key then the **Cancel timer** soft key.

### VOICE SETTINGS

In this area changes can be made to the language used by the system when communicating with the driver and to voice tags added to telephone numbers. The voice tags are described later in the **Telephone** section.

A **Help** feature with examples of voice commands can be accessed.

Use the scroll soft keys to view selection choices. When a change is made, confirm it by touching the **OK** softkey.

### SOUND SETTINGS

Tone and volume settings are accessed via the hard key on the audio system facia.

Briefly press the tone hard key to display the **Tone** screen.

Bass, treble and sub woofer settings can be adjusted on the sliders.

Balance and fade can be adjusted to set the focus point for sound delivery.

**Source Memory** allows personal settings to be memorised for individual audio sources.

**Logic 7** is particularly useful when the original audio source is of high quality. When selected, a seven channel feed provides enhanced audio effects.

To access volume settings, press and hold the tone hard key until the **Volume** screen is displayed.

**AVC** (Automatic Volume Control), **INFO**, **NAV**, **Phone** and **Voice** can be adjusted individually to suit personal requirements.

Use the + and - soft keys to make adjustments. The volume setting is displayed alongside the feature.

For **AVC**, the screen setting represents the amount by which volume will increase with vehicle speed. The higher the setting, the greater will be the volume boost at higher speeds.

The **INFO** setting relates to any radio announcements that may interrupt your current mode.

**NAV** and **Voice** are used to adjust the system feedback voice.

Use **Phone** to adjust call volume.

### TOUCH SCREEN CARE



Always run the engine during prolonged use of the touch screen. Failure to do so may discharge the vehicle battery, preventing the engine from starting.



Avoid spilling or splashing liquids onto the touch screen.

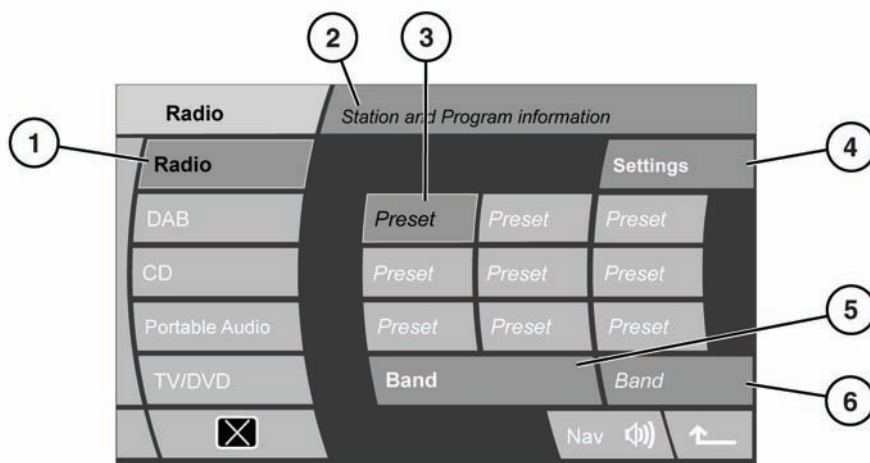
Do not use any abrasive cleaners on the touch screen.

The touch screen and inner bezel must be kept clean to maintain optimum performance. Clean finger marks with a soft cloth and Land Rover approved cleaning agent. Contact your dealer for details.

Avoid exposing the screen to direct sunlight for long periods.

When operating touch screen soft keys, use only one finger. Using more than one finger at a time may cause false inputs.

## RADIO MENU



SL1089

1. **Radio** mode select.
2. Information area.
3. Station presets: Each waveband has 9 preset positions.
  - Touch and hold to store the current station on that preset (the radio will mute while the station is stored).
  - Touch and release to tune to the station stored on that preset.
  - Use the search controls on the steering wheel to change to the next or previous preset station. Alternatively, use the fascia search controls.
4. **Settings**. Tuning (Autostore and manual), RDS and PTY (programme type) settings.
5. Waveband selection: Touch to cycle through FM1, FM2 and AM (MW and LW). The radio will tune to the last used station on that waveband.
6. Selected waveband display, **FMA**, **AMA** and **LWA**. Touch and hold to select Autostore.
  - If no stations are currently stored on the presets, select this soft key to store up to 9 of the strongest stations on the current waveband (the radio will mute during this process).
  - If preset and autostore preset stations are already stored, a long touch will start a new autostore process.



## AUTOSTORE STATIONS

There are two methods to start the autostore process. Touch and hold the FMA soft key to start Autostore.

Alternatively, touch the **Settings** soft key.

Touch the **Tuning** soft key.

Touch **Autostore**. When storing is complete, the station with the strongest signal will begin play.

If required, repeat for the other wavebands, FMA, MWA and LWA. The A part of these waveband designations represents Autostore.

To select an autostore station, first select the autostore waveband then touch the appropriate preset soft key.

## SEARCHING FOR STATIONS

Use the audio fascia search hard keys or the steering wheel search buttons.

The main **Radio** screen will display station information. If another mode is in use, the station information will be displayed briefly on a pop up screen.

Alternatively, while in **Radio** mode, rotate the **Mode** control to scroll through the available stations.

## MANUAL TUNING

To manually input a frequency, touch the Settings soft key.

Touch the **Tuning** soft key. Enter the first digits of the frequency.

**Note:** *Only some of the digits will be enabled. These are the only digits available to start the frequency. When the first digits have been input, further available digits will be displayed.*

When the desired frequency has been entered, select **OK** to confirm.

## RADIO DATA SYSTEM (RDS)

Your audio unit is equipped with **RDS**, which enables the audio unit to receive additional information with normal radio signals.

**RDS** can also allow automatic retuning to stations that are linked to a network. **AF** must be switched on.

**Note:** *Not all FM radio stations broadcast RDS.*

With **FM** selected, touch **Settings** then **RDS Settings**, to view or alter RDS settings.

- **RDS:** Select on or off
- **Regionalisation:** Select **On** to enable radio retuning to an alternative local station that has a stronger signal.
- **Alternative Frequency:** Select **On** to allow the radio to automatically re-tune to a stronger alternative frequency for the current station. This is useful on long journeys, where the vehicle travels through different transmitter areas.

## PRIORITY PROGRAMME TYPE (PTY)

PTY works in conjunction with RDS and is active in FM radio, CD, TV and Portable audio modes. It has two functions:

1. To set a desired PTY category for the current station.
2. To search for and tune to a station in the selected PTY category.

To view the list of available PTY categories, select **Settings** and then **PTY**.

**Note:** *The PTY menu is not available when the vehicle is in motion.*

**Setting a PTY category for the current station:**

- Scroll down the list until the desired category is displayed, then touch the category to select.

- Touch the Back (previous screen) arrow in the bottom right-hand corner of the touch screen.

**Note:** *There will be a short wait for RDS to indicate that the station has changed its programme type.*

If reception for the current station is subsequently lost, the radio will attempt to tune to an alternative station with the same PTY category.

## RECEPTION DIFFICULTIES

There may be times during a journey when reception is poor. This is rarely the fault of the radio receiver. There are many reasons for poor reception, e.g.:

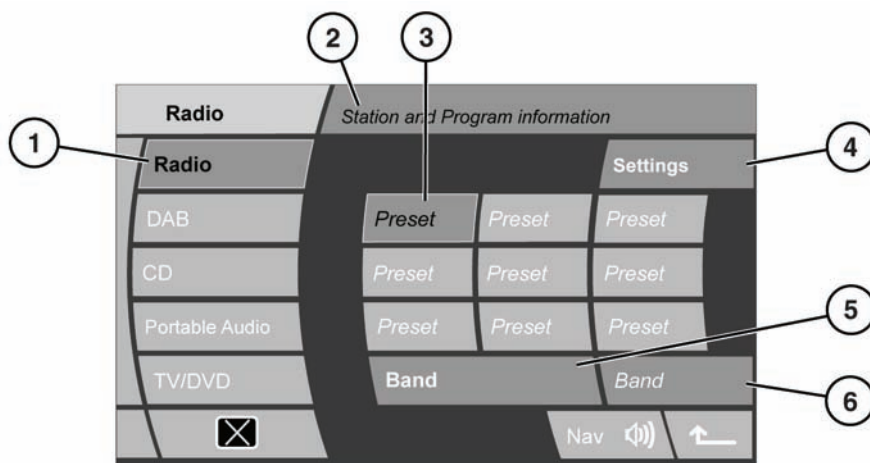
- Tall obstacles, e.g., buildings.
- Tunnels.
- Mountainous regions.
- Distance from a transmitter.

These will have varying effects on your radio:

- Signal phasing.
- Cross over of channels.
- Distortion.
- If **INFO** has been selected **TP** will begin to flash then **TP SEEK** will be displayed while a strong signal is searched for. If the search fails, **Not Found** is displayed.

RDS will help to reduce the effects of signal change.

## RADIO MENU



SL1089

1. **Radio** mode select.
2. Information area.
3. Station presets: Each waveband has 9 preset positions.
  - Touch and hold to store the current station on that preset (the radio will mute while the station is stored).
  - Touch and release to tune to the station stored on that preset.
  - Use the search controls on the steering wheel to change to the next or previous preset station. Alternatively, use the fascia search controls.
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6. Selected waveband display, **FMA**, **AMA** and **LWA**. Touch and hold to select Autostore.
  - If no stations are currently stored on the presets, select this soft key to store up to 9 of the strongest stations on the current waveband (the radio will mute during this process).
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Use the audio fascia search hard keys or the steering wheel search buttons.

The main **Radio** screen will display station information. If another mode is in use, the station information will be displayed briefly on a pop up screen.

Alternatively, while in **Radio** mode, rotate the **Mode** control to scroll through the available stations.

## MANUAL TUNING

To manually input a frequency, touch the Settings soft key.

Touch the **Tuning** soft key. Enter the first digits of the frequency.

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When the desired frequency has been entered, select **OK** to confirm.

## RADIO DATA SYSTEM (RDS)

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**Setting a PTY category for the current station:**

- Scroll down the list until the desired category is displayed, then touch the category to select.

- Touch the Back (previous screen) arrow in the bottom right-hand corner of the touch screen.

**Note:** *There will be a short wait for RDS to indicate that the station has changed its programme type.*

If reception for the current station is subsequently lost, the radio will attempt to tune to an alternative station with the same PTY category.

## RECEPTION DIFFICULTIES

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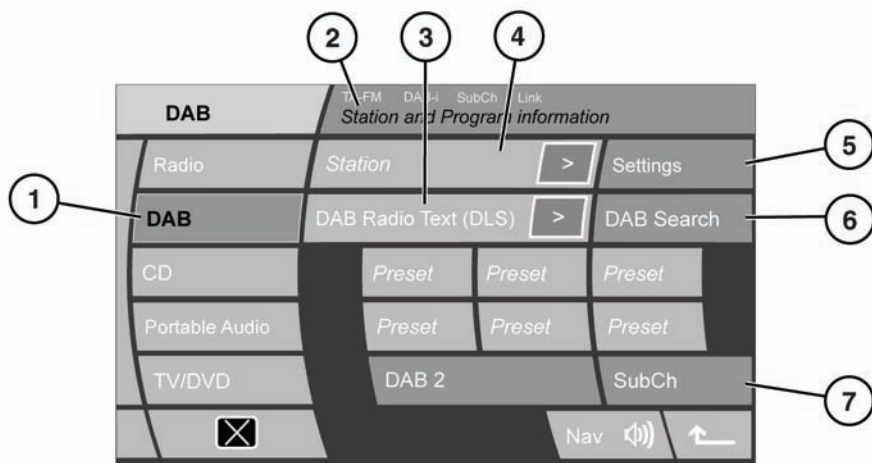
- Tall obstacles, e.g., buildings.
- Tunnels.
- Mountainous regions.
- Distance from a transmitter.

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- If **INFO** has been selected **TP** will begin to flash then **TP SEEK** will be displayed while a strong signal is searched for. If the search fails, **Not Found** is displayed.

RDS will help to reduce the effects of signal change.

## DAB MENU



SL1090

1. **DAB** mode select.
2. Information area. DAB band and channel name are displayed here. The following information may also be displayed:
  - **TA-FM** is displayed if the FM traffic option is enabled.
  - **DAB-i** is displayed if DAB announcements are enabled.
  - **SubCh** is displayed if a sub-channel is selected. If a sub-channel is available but not selected, an arrow will be shown.
  - **Link** is shown if the Link DAB option is enabled.
3. DAB radio text.
4. Channel name.
5. **Settings**. Announcements, Link DAB, DAB country and DAB format.
6. **DAB Search**. To build a list of all available DAB ensembles and channels, touch DAB

Search then Auto-tune. When the list is complete the first channel will begin play.

**Note:** Auto-tune lists can be updated at any time.

7. An arrow icon in the information area indicates that subchannels are available under the current channel. **SubCh** is displayed if a sub channel is selected.

**Note:** The display can also show PTY or Ensemble information, if you have selected one of these options under **DAB text** on the settings menu.

## DAB RADIO TEXT

Many digital channels transmit additional text to accompany a broadcast.

The first 16 characters of the text are displayed. The remainder of the text (if any), can be viewed by touching the additional text icon (>). A pop-up screen will appear with the full text. Touch the pop-up to close it.

## STORING CHANNELS AS PRESETS

You can store up to eighteen digital channels (six each on DAB1, DAB2 and DAB3) using the named preset icons.

1. Play the channel you want to add as a preset.
2. Touch and hold (for about 2 seconds) the preset icon you want to store the current channel on. Audio output is briefly muted while the channel is stored and a confirmation message is displayed.

**Note:** *You cannot store a subchannel as a preset. If you try to store a subchannel, you will store the channel to which the subchannel belongs.*

## RECALLING A PRESET CHANNEL

Make sure that the appropriate DAB channel is selected (DAB1, DAB2 or DAB3) and touch the preset icon for the channel you require.

**Note:** *If you try to recall a channel that has been previously been stored as a preset, but is now unavailable or invalid, the message **No channel found** is displayed.*

## ENSEMBLES

Digital radio channels are arranged into groups called ensembles. Also, some digital channels may include subchannels.

Touch and hold a seek button for over 2 seconds to find the next or previous ensemble.

After a few seconds pause, the first channel in the newly selected ensemble will be played.

If reception is lost, select **AUTO** to build a new list of ensembles.

## FINDING A CHANNEL

Press and release a channel seek button to find the next available channel. If the next or previous channel is in a different ensemble, there will be a short pause while the system searches for the channel.

## SELECTING A SUBCHANNEL

If subchannels are available under the channel you have selected, the subchannel arrow icon is displayed.

To access the sub-channel, touch the **SubCh** soft key. If more than one sub-channel is available, scroll through them using the seek buttons.

To return to the channels, touch the up arrow soft key.

**Note:** *When you select and play a subchannel, the arrow icon is replaced by **SubCh** on the display screen.*

**Note:** *You cannot store a subchannel as a preset.*

**Note:** *If you are listening to a subchannel, then rotating the menu control will return you to the channel preset list and allow you to scroll through it.*

## DAB SEARCH

To find a specific broadcast, use the **DAB search** menu.

1. Touch the **DAB Search** soft key.
2. Touch one of the soft keys:
  - **Ensemble List** to view a list of all ensembles and the channels within each one.
  - **Channel List** to view a complete list of all channels in all ensembles.

- **Sub-channel List** to view a complete list of all subchannels available for the currently playing channel.
  - **PTY List** to view all available PTY categories (i.e. News, Sport, Talk etc.) and the channels available within each category.
  - **Channel Information** displays technical data about the currently tuned channel.
3. Use the arrows to scroll through ensembles, channels etc., in the list. Select a channel or subchannel directly by touching the appropriate soft key. With PTY, press one of the seek buttons repeatedly (within the first 10 seconds of play) to cycle through the channels contained within the PTY category.
- Select **DAB country** if you drive into another country. Scroll through the country options to choose the appropriate one.  
This will prompt an auto tune.  
**Note:** *This option is disabled while the vehicle is moving.*
  - Choose **DAB format** if you move to a region that uses a different digital band. Available formats are;
    - L Band
    - Band III
    - L Band & Band III
    - L Band Canada
    - L Band Can & Band IIIThis will prompt an auto tune.  
**Note:** *This option is disabled while the vehicle is moving.*

## SETTINGS

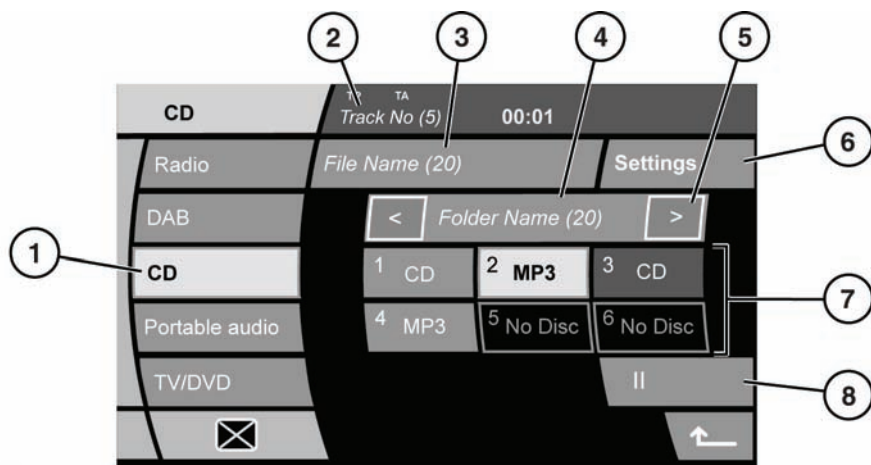
- Touch Announcements to allow selection of up to four announcement types. If DAB finds an announcement of the selected types, normal play will be interrupted for the duration of the announcement.
- If the **Link DAB** setting is switched on and the signal strength for a channel falls below an acceptable level, the audio unit will automatically search other available ensembles for a channel with the same name.

If an alternative local channel is found, the new channel is played automatically after few seconds. If the channel is not found after a few seconds, the message **No reception** is displayed.

The word **Link** is displayed at the top of the touch screen when Link DAB is enabled.



## CD PLAYER MENU



SL1367

1. **CD** mode select.
2. Information area. Current track number and time elapsed.
3. Track information and the total number of tracks on the CD.
4. MP3 folder information.
5. Use the arrow soft keys to navigate between MP3 folders. If a folder is displayed for two or more seconds, the content of that folder will begin play.
6. **Settings.** Options for Random play, Repeat and CD scan.
7. **CD select.** Shows which of the six CD magazine slots are in use and what type of media is on the CD.
8. Pause play. Touch again to resume play.

## PLAYING A COMPACT DISC

If a CD is loaded, playback will resume from the point of last play. If no CD is present, No disc will appear in the display.

A CD containing MP3 tracks may take longer to load if there are more tracks than on a normal CD. To minimise loading time, a rigid folder structure is recommended.

Touch a CD select soft key to load and begin play of that CD. CD and track information will be displayed.

If RDS is on, Traffic and News information may interrupt CD play. Briefly press the INFO hard key to cancel or return to Radio mode and turn RDS off.

## CD TRACK SELECTION

Pressing and holding the search hard keys or steering wheel controls will fast forward or rewind the CD.

## PLAY OPTIONS

Select Settings for the following options;

- **Random:** Select to play tracks in a random order. Touch again to cancel.
- **Repeat:** Select to play the current track repeatedly.
- **Scan:** Select to play the first 10 seconds of each track on the CD in turn.

**Note:** Repeat and Scan can be cancelled by pressing the track up or down button.

If a different audio source is selected, or the unit is turned off, the selected play option will be cancelled.

## MP3 FILE PLAYBACK

If an MP3 CD is to be used, each session must be properly closed, but the whole disc does not have to be finalised.

When Track list is selected, the list of folders and MP3 files is displayed in alphabetical order. Select a folder to view, and select the tracks contained within.

- Only CDDA discs can be loaded into the CD player.
- The highest compression rate supported, is 320k bits per second (kbps). If anything less than 128 kbps is used, Digital Signal Processing (DSP) functionality may be lost.
- The CD player may take a longer time to load an MP3 disc, if there are more tracks than on a normal CD. To minimise loading time, a rigid folder structure is recommended.
- If a CD contains a mixture of MP3 and CDDA tracks, any MP3 tracks will be ignored.

## LOADING COMPACT DISCS



Do not use irregular shaped CDs or CDs with a scratch protection film or self-adhesive labels attached.



The CD unit will play compact discs that conform to the international Red Book standard audio specification. Playback of CDs not conforming to this standard cannot be guaranteed.



Recordable (CD-R) discs and re-writable (CD-RW) discs, may not function correctly.



Dual format, dual-sided discs (DVD Plus, CD-DVD format), are thicker than normal CDs and consequently, playback cannot be guaranteed and jamming may occur.

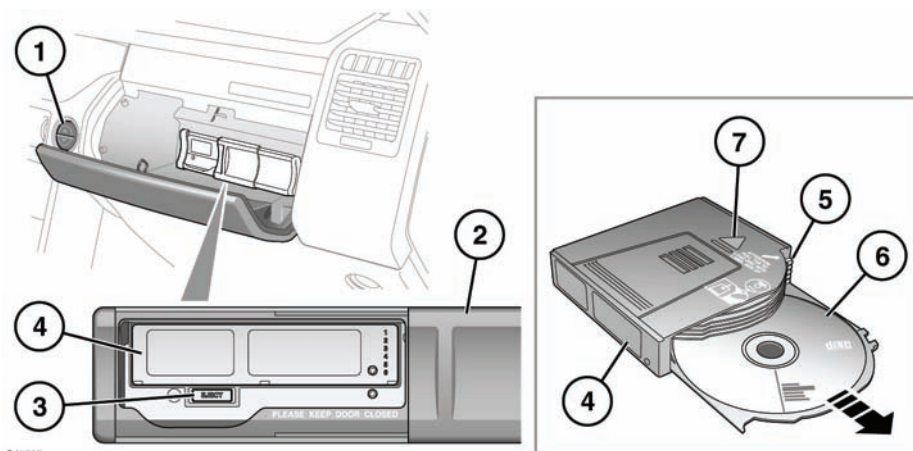
It is recommended that only high quality 12 cm (4.7 in.) circular discs are used.

The unit will play the following formats:

- Compact Disc Digital Audio (CDDA) discs.
- MP3 files.
- WMA files.
- WAV files.
- AAC files.

**Note:** Copy-protected CDs may fail to play in your CD changer or may be played subject to various limitations (e.g. sound quality may be impaired). If you experience a problem, try the CD in other players before contacting the CD vendor.

## CD AUTOCHANGER



SJ1587

1. Press to open the upper glove box.
2. Slide the door open.
3. Press to eject the CD magazine.
4. CD magazine.
5. Pull out a CD tray by its tab.
6. Place a CD, with its label on top, into the tray. Ensure it is located properly. Close the tray.
7. Insert the CD magazine into the autochanger in the direction of the marked arrow.
8. Close the sliding door.

### PORTABLE AUDIO



**Make sure that any auxiliary devices are stored securely while the vehicle is in motion.**



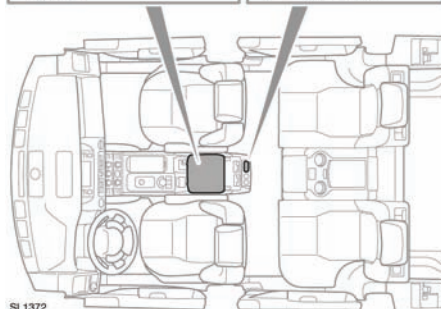
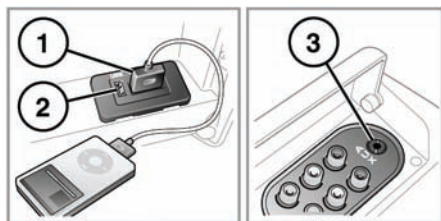
**Do not place any item connected to the auxiliary input socket or the auxiliary power socket on the seats, carpets, or other upholstery.**



Read the manufacturer's instructions for any device, before it is connected to the audio system.

### PORTABLE AUDIO CONNECTIONS

Portable audio devices can be connected to the media hub, located in the cubby box. Auxiliary devices can be connected to the AUX socket at the rear of the centre console.



SL1372

1. USB socket.
2. Portable audio/iPod socket.
3. 35mm AUX socket.

Portable devices that can be connected include:

- USB mass storage devices (e.g. a memory stick). Devices must use FAT or FAT32 file format.
- iPod® (iPod Classic®, iPod touch®, iPhone® and Nano® are supported - full functionality for older devices cannot be guaranteed). iPod Shuffle® functionality cannot be guaranteed.

**Note:** iPod® is a trademark of Apple Computer Inc., registered in the US and other countries.

**Note:** A dedicated iPod lead is available from your Land Rover Dealer.

- Auxiliary device (personal audio, MP3 players, all iPods®).

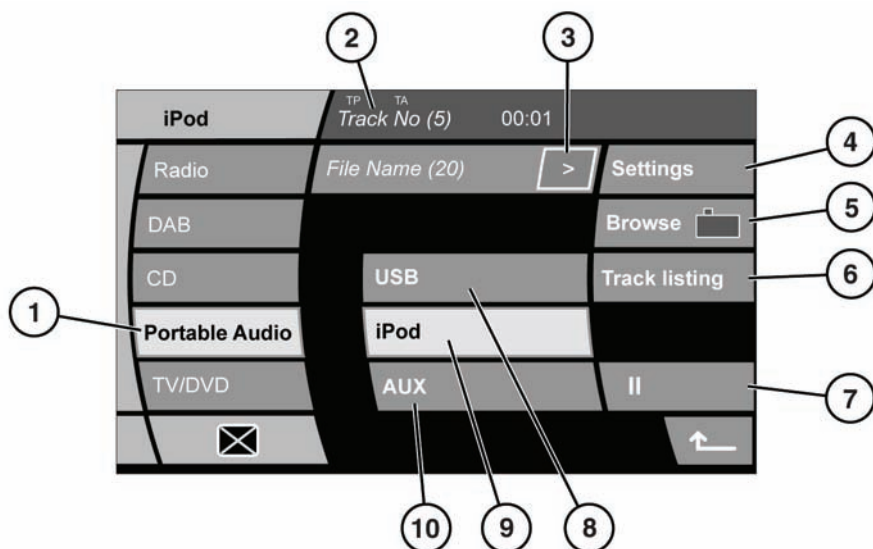
**Note:** iPod shuffle may be connected via the AUX socket.

If you are connecting an iPod® or mass storage device, use the touch screen to operate and search the device. Many of the controls are similar to those available for CD play.

If you are using any portable media device via the AUX socket, then you must control playback from the device itself.

**Note:** The audio system will play MP3, WMA, WAV and AAC files.

## PORTABLE AUDIO MENU



SL1769

1. **Portable Audio** mode select.
2. Display of information about the current track, including elapsed run-time and play mode (Mix or Repeat).
3. Select to view more detailed information about the current track. Touch briefly to toggle through the information. Touch and hold to display the portable media text pop-up screen. Touch the pop-up to close.
4. **Settings.** Options for:
  - **Random:** Touch briefly to randomly play tracks in the current folder. Touch and hold for 2 seconds to play all tracks on the device.
  - **Repeat:** Touch briefly to repeat the current track. Touch and hold for 2 seconds to play all tracks in the current folder, then repeat.
5. **Browse** (iPod®/USB only):
  - Select to view the contents of the connected device which are displayed as dictated by the file structure of the device.
  - Select a file to start playback (Browse view will remain). Select a folder or subfolder to view their contents.
  - Select **Page jump** to jump through longer lists of items.
  - To return to the Controls menu, select the Back soft key.
6. **Track listing.** Select to view list of available tracks. Scroll to view previous or next tracks. Select a track to review it.
7. **Pause/Play.** Select to pause playback. Select again to resume playback.
8. **USB.** Touch to select playback from a USB device.

9. **iPod.** Touch to select playback from an iPod.
10. **AUX.** Touch to select playback from an auxiliary device.

### PLAYING A DEVICE

- ❗ Disconnect your iPod® when leaving the vehicle. Failure to do so may result in the iPod® battery discharging.
- ❗ During high ambient temperatures or direct bright sunlight, it is advisable to unplug and remove portable media devices from the vehicle.

When an iPod® is connected, playback will continue from the point at which it was last playing, provided the iPod® battery is in a good state of charge.

When a USB device is connected, playback will start from the first track in the first available folder. If a device is already connected when **Portable Audio** is selected, playback will continue from the point at which it was last playing.

When an auxiliary device is connected, playback will start when the device is switched on and played.

**Note:** To maximise playback quality, it is recommended that lossless compression is used for any media files on USB or iPod®. Failing this, it is recommended that compressed files utilise a minimum bitrate of 192 kb/s (a higher bitrate is strongly recommended).

**Note:** Some MP3 players have their own file system that is not supported by this system. To use your MP3 player, you must set it to USB Removable Device or Mass Storage Device mode. Only music that has been added to the device in this mode can be played.

**Note:** The volume levels and sound quality available from devices connected to the auxiliary inputs may vary widely. If the connected audio device is equipped with a line out socket, as well as a headphone socket, the line out socket should be used.

### CONNECTING MULTIPLE DEVICES

- ❗ Do not plug non-audio devices into the USB port.

You can connect multiple devices to the portable media interface simultaneously and switch between them using the touch screen. Select **USB** or **iPod**, to switch between modes.

The device docked first will remain the active device, until you choose to change.

If, after changing to the newly-docked device, you change back to the first device, play will resume at the point you left it (USB and iPod® only).

**Note:** You cannot use a USB hub to connect more than one USB device to the audio unit.

**Note:** Devices connected to the iPod® and USB ports will be charged, but devices that are fully discharged will not play.

**Note:** Options such as **Repeat** and **Random**, relate to the device currently playing, they will not apply to any subsequent device.

### SEARCHING A TRACK

Use the audio fascia hard keys or steering wheel controls for next/previous and fast forward/reverse track searches.

## AUX INPUT SOCKET

**Note:** On vehicles fitted with rear seat entertainment, additional Audio/Visual sockets (AV1 and AV2) are provided. This allows auxiliary equipment (such as a video game console) to be linked to the rear DVD screens. For installation information, please refer to the manufacturer's instructions.

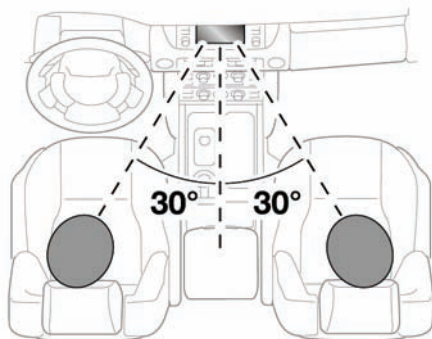
## DUAL VIEW TOUCH SCREEN

Dual view touch screen option is a development of the LCD screen that enables the driver and front seat passenger to view two separate display modes.

Due to legal restrictions, the driver is not allowed to view moving images, as provided by TV and DVD, while the vehicle is in motion.

## HOW IT WORKS

Viewing angles for driver and front seat passenger are such that neither can view the full display that the other is viewing. However, there is an optimum viewing angle of 30 degrees where no cross over of images can be perceived. From this point, the closer to screen centre or screen side edges that the viewer moves to, the more likely cross over of images is. During normal use of dual view, image cross over is unlikely.



SL1657

## DUAL VIEW SELECTION

When the ignition is turned on or the audio unit is turned on after being turned off, single view mode will be the default view.

To select a video source for the first time, touch the **TV/DVD** soft key. Use this soft key to toggle between TV and DVD video sources.



SL1658

After five seconds without use, the left side selection softkeys will be replaced with the **Mode** softkey and the selected video source preview area. If the vehicle is in motion the preview will be inhibited and a message is displayed.



Touch the **AUDIO VIDEO** hard key to initiate dual view. Touch the preview image to display it at full

screen view for the passenger.

If TV or a DVD source were being viewed previously, the same video source will be displayed.

To select any other audio or video source, first access the available options via the **Mode** softkey. Make your selection then press the **AUDIO VIDEO** hardkey again.



## DUAL VIEW CONTROLS



SL1660

In TV mode;

- Rotate **DVD ENTER** to move up or down the list of pre set channels.
- Use the arrow keys to move up or down all available channels.

In DVD mode;

- Rotate **DVD ENTER** to move up or down the DVD root menu.
- Use the arrow keys to move around the root menu.

## DUAL VIEW TV OPERATION

If you would like to change the TV programme while the vehicle is moving, there are three methods available;

1. Press the **AUDIO VIDEO** hardkey to display the TV/DVD control menu.  
Select an alternative channel then touch the preview image in to return to full view screen.
2. Use the **DVD ENTER** control or the arrow keys to select a channel number. After a short pause the TV programme will display.

3. Press the steering wheel **MODE** button repeatedly to select TV. Press the forward or back buttons to move up or down your preset channels. The channel number will be displayed and after a short pause the TV programme will display.

**Note:** Not all channels are populated with a TV programme. Some channels broadcast only at pre determined times whereas others may broadcast continuously throughout the day and night.

## DUAL VIEW DVD OPERATION

When the DVD programme begins play, a root menu with information about the DVD and its content will be displayed on screen.

**Note:** DVD menu information and style may vary due to differing DVD formats.

Use the **DVD ENTER** control and the arrow keys to move around the menu.

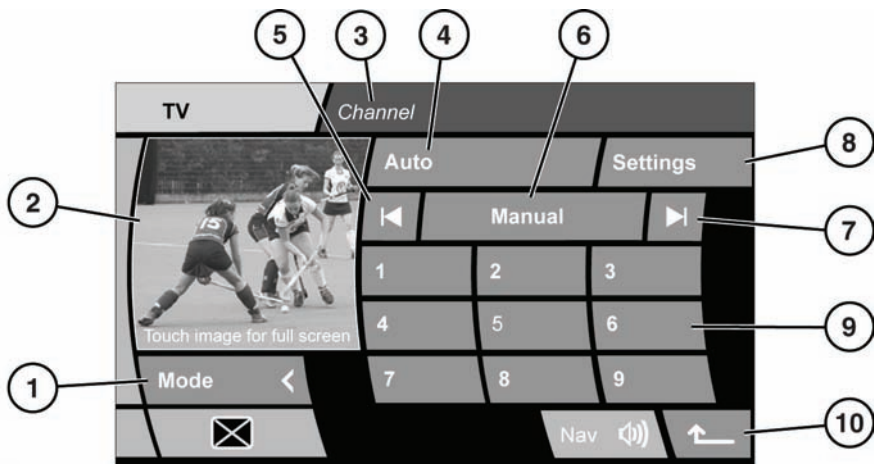
Press the **DVD ENTER** control to confirm a selection.

## ACCESSING DVD FROM ANOTHER MODE

With another mode displayed, e.g., Navigation, a press of the **DVD ENTER** control will move directly to DVD operation.

Press the **AUDIO VIDEO** hardkey for dual view mode. The passenger can now view the full DVD screen.

## TV MENU



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1. **Mode.** Touch to return to source selection menu.
2. **Preview screen.** Touch to select full screen mode. Screen appearance choices will be displayed for five seconds. Touch to make changes.
3. **Programme information.**
4. **Auto.** Touch to display a Channel list of TV channels available presently at the current location.
5. **Backwards/Previous softkey.** TV channel search and page scroll when viewing the Channel list.
6. **Manual.** Touch for TV channel tuning.
7. **Forwards/Next softkey.** TV channel search and page scroll when viewing the Channel list.
8. **Settings.** Touch to access country and TV format settings.
9. **Channel presets.**
  - Long touch to store the current channel as a preset. The channel name will then be displayed on the soft key.
  - Short touch to select the channel stored on that preset.
10. **Touch to return to previous screen.**

The **AUDIO VIDEO** hard key can be used to access the main TV/DVD control menu.

## TV MENU SELECTION

There are 2 methods for selecting TV mode.

### Access via the AUDIO VIDEO hard key:

1. While in another viewing mode (e.g. Navigation), press the **AUDIO VIDEO** hard key.
2. Select the **Audio Video** soft key to toggle between TV and DVD. If a further selection is not made within five seconds, the left side selection soft keys will be replaced with a **Mode** soft key and a preview area. If the DVD control menu is displayed, touch the **Mode** soft key to return to the **TV/DVD** soft key then toggle to TV.

### Access via the Home menu:

1. Press the **HOME MENU** hard button.
2. Touch the **Audio Video** soft key to access the audio/video menu.
3. As in the first access method, select TV with the **TV/DVD** soft key.

**Note:** The TV tuner can receive both analogue and digital TV signals and will maintain the presently tuned channel throughout a journey, subject to reception conditions. In areas of weak reception, you may experience a break-up in picture and sound quality or a blank screen and audio muting. It may be necessary to re-tune the viewed station.

## TV CHANNEL SEARCH AND STORE

All TV channels available presently at the current location, including user stored channels, can be viewed.

There are 3 channel search and store methods, 1 automatic and 2 manual:

### Automatic process - Channel List:

While the vehicle moves to each new location, the Auto feature continually updates the Channel list. Channels are automatically added to soft keys in the Channel list view. The Channel list can hold up to 96 currently available analogue and digital TV channels.

1. Touch the **Auto** soft key to initiate the Channel list view. The screen view will change and the **Auto** soft key will remain highlighted.



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2. Received channels are automatically assigned to soft keys which will display station reference IDs. Channels with names will be listed in alphabetical order, followed by those with a channel number reference. A highlighted soft key indicates the currently selected and displayed channel. Use the left or right arrow soft keys to view further available channels.

**Note:** When the Auto feature makes a channel list, the stored channels are linked to the locally available transmissions. If you subsequently move away from that locality, some of your stored presets may no longer be available. Those unavailable channels are automatically removed from the displayed list.

3. To store the currently selected and displayed channel to one of the nine preset soft keys, touch and hold one of the preset soft keys. A confirmation tone will sound and the selected soft key highlights. The channel is now stored on the selected soft key.

**Note:** Do not store the same channel on two different preset soft keys. Doing so will cause a problem when recalling preset channels.

## Manual process 1:

1. With no highlight of the **Auto** or **Manual** soft keys, touch seek up or seek down soft key.
2. Depending on which direction you have chosen to search in, the TV tuner will find the next or previous available channel. The channel ID is displayed in the message area.
3. To store a TV channel to a preset soft key, touch and hold one of the soft keys until a confirmation tone is heard and the selected soft key highlights. The channel is now stored on the selected soft key.

## Manual process 2:

1. Touch the **Manual** soft key. The seek up and seek down soft keys become double arrow icons.
2. Touch a seek up or seek down soft key.
3. Depending on which direction you have chosen to search in, the TV tuner will find the next or previous available channel, irrespective of whether there is a TV programme available. If a channel is found, its ID is displayed in the message area.
4. To store a TV channel to a preset soft key, touch and hold one of the soft keys until a confirmation tone is heard and the selected soft key highlights. The channel is now stored on the selected soft key.

## CHANGING TV CHANNELS

When in full screen view, there are four methods to change TV channel.

### Moving to the next available channel in single view mode:

1. Touch the screen to access the soft keys.
2. Touch the appropriate seek up or seek down soft key, to select the next or previous TV channel. Repeat to access further available channels.
3. When the desired channel is displayed, either touch the screen to clear the icons or wait 5 seconds for automatic clearance.

If the screen is touched by the passenger while viewing in dual screen mode, the mode in use by the driver will be affected.

### Hard key channel selection:

Press the appropriate forwards or backwards hard key to select the next available channel.

### Selecting from the channel list:

1. Touch the screen.
2. Touch the return arrow soft key to move back to the TV control menu.
3. Touch the **Auto** soft key. The Channel list will be displayed.
4. To select a channel from the list, touch the appropriate channel soft key.
5. Touch the preview image to return to full screen view.

### Selecting from the preset soft keys:

1. Touch the screen.
2. Touch the return arrow soft key to move back to the TV control menu.
3. Select the appropriate channel soft key.
4. Touch the preview image to return to full screen view.

**Note:** To move back to the previous soft keys, touch the **Auto** soft key again.

## EPG - ELECTRONIC PROGRAMME GUIDE

For digital channels, a Now and Next EPG is displayed across the screen each time a channel is tuned. The EPG contains:

1. Current time.
2. Present channel ID.
3. Time and name of programme in view.
4. Time and name of next programme.

The EPG will clear after a short period. The EPG will also display when a programme is about to change.

## ALTERNATIVE AUDIO SOURCE

While watching a TV programme on a single view display, an alternative audio source can be selected if required (e.g. a radio news station).

Press the **OK** or **MODE** rotary control to display alternative audio sources then rotate to select a source. After 2 seconds, the selected audio source will play and the video source will remain unaffected.

## TV SETTINGS AND FORMATS

A variety of TV formats are used throughout the world. The Settings feature allows you to alter TV settings to match the country you are driving in. When Settings is first accessed, the TV country screen will be displayed.

An alphabetical list of countries is displayed. If a country is already set, then it will be highlighted. Use the arrow soft keys to view further countries.

## CHANGING THE COUNTRY SETTING

1. If the country you require is not on the displayed page, use the down arrow to scroll through the list.
2. Touch a country banner to select it. The TV format adjusts to suit the selected country.
3. Use the return arrow soft key to move back to the TV control menu.

**Note:** Station search and store will be required in other countries.

## CHANGING THE TV FORMAT

From the **TV country** menu, you also have the option of making the TV format change directly from a list of formats. If you know the correct TV format for your current location, you can use the following selection process;

1. Touch the **Format** soft key to display the TV format screen.
2. If a country is already set then no format type will be highlighted. If the format you require is not on the displayed page, use the down arrow to scroll through the list.
3. Touch a format banner to select it. The TV format will now be adjusted.
4. Use the return arrow soft key to return to the TV control menu.

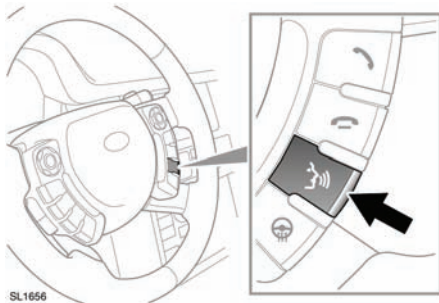
## SCREEN APPEARANCE

When you move from the preview screen to full screen, picture format soft keys are displayed. Use to select the viewing area or zoom of the viewed image. If there is no input for five seconds the soft keys will close.

## OPERATION

Voice control allows you to operate the telephone, navigation and touch screen systems using spoken commands. A notepad facility also allows you to record notes.

The system is controlled by the Voice button, located on the steering wheel.



- Press briefly to start a Voice session.
- Press and hold to cancel a Voice session.

Once a Voice session is started, a tone will sound to indicate that the system is waiting for a voice command.

Commands must be given in the language chosen in **Settings/System Settings** area.

Give a command. The system will repeat the command (as understood by the system) as confirmation. The command will then be acted on or the system will ask for further information. Always wait until after the tone before giving the next command.

If a command is not understood by the system, it will respond with **SORRY**. Two further attempts to give the command are permitted before the Voice session is cancelled.

Once you are familiar with operating Voice control, you can skip to the end of a Voice system request (to when the tone sounds) by

briefly pressing the Voice button during the system request.

A command can be interrupted by saying **Cancel** or by pressing the steering wheel control.

To cancel a Voice command, press and hold the steering wheel control until a double tone is heard.

The following table lists the basic commands for operating the system (including help and tutorial commands).

Command	Description
VOICE HELP	Plays information on operating the Voice system.
VOICE TUTORIAL	Initiates a four-part Voice system tutorial.
DISPLAY HELP	Plays information on touch screen Voice commands.
DISPLAY ON	Turns on the touch screen.
DISPLAY OFF	Turns off the touch screen.
DISPLAY SHOW PHONE	The Phone menu is displayed on the touch screen.
PHONE HELP	Plays information on phone Voice commands.
DISPLAY SHOW AUDIO	The Audio Home screen is displayed.
DISPLAY SHOW NAVIGATION	The Navigation main menu is displayed on the touch screen (the navigation caution must be accepted beforehand).

Command	Description
NAVIGATION HELP	Plays information on navigation Voice commands.
NOTEPAD HELP	Plays information on notepad commands.
RECORD NOTE	Allows recording of a note, up to 30 seconds long.
PLAY NOTEPAD	Plays all currently stored notes.
CLEAR NOTEPAD	Deletes all currently stored notes.

## VOICE TUTORIAL

To listen to a tutorial detailing the operation of the Voice system:

- Briefly press the Voice button to start a voice session.
- Wait for the tone to sound, then say **VOICE TUTORIAL**.

The voice tutorial can be cancelled at any time by briefly pressing the Voice button and saying **CANCEL**. Using the commands **PREVIOUS** and **NEXT** allow you to skip to a previous or the next lesson of the tutorial.

**Note:** *The vehicle must be stationary and parked during the tutorial.*

## VOICE SESSION INTERRUPTIONS

Certain conditions will cause the current voice session to be cancelled, as follows:

- If a phone call is received.
- If a high priority warning appears in the message centre.
- If there is no user input for a sustained length of time.

Press the Voice button to start a new voice session.

## NOTEPAD

The notepad can be used to record notes, each up to 30 seconds long, which can be subsequently recalled.

## RECORDING A NOTE

1. Briefly press the Voice button, wait for the tone to sound, then say **RECORD NOTE**.
2. Speak the note, then press and hold the Voice button to end and save the note.

**Note:** *If the note exceeds 30 seconds the recording will end automatically.*

## PLAYING NOTES

Briefly press the Voice button, wait for the tone to sound, then say **PLAY NOTEPAD**.

If multiple notes are stored; to skip to the next note, briefly press the Voice button during playback and say **NEXT**.

## DELETING NOTES

To delete a single note, briefly press the Voice button during playback of the note and say **DELETE**.

To delete all stored notes, briefly press the Voice button and say **CLEAR NOTEPAD**.

## VOICE VOLUME

Briefly press the Voice button to initiate a Voice session, then use the volume control to adjust Voice volume as required.

**Note:** *Voice volume can also be adjusted in the Settings area of the touch screen.*

## BLUETOOTH® INFORMATION



Bluetooth® is the name for short-range radio frequency (RF) technology that allows electronic devices to communicate wirelessly with each other.

The Land Rover Bluetooth® system supports Bluetooth® Hands-Free Profile (HFP).

Before use, your mobile phone must be paired and docked with the vehicle's Bluetooth® system. This is done via your mobile phone. See **PAIRING AND DOCKING USING YOUR MOBILE PHONE, 161**.

Once a mobile phone has been paired and docked with the vehicle, the system will attempt to connect with the last docked phone each time the ignition is switched on.

As these mobile phones have a wide range of audio and echo characteristics, it may take a few seconds for the vehicle's Bluetooth® system to adapt and deliver optimum audio performance.

To get the best performance and minimal echo and noise from the hands-free system, it may be necessary to reduce the in-vehicle volume and ventilation fan speed slightly.

## TELEPHONE SAFETY



**Switch off your telephone in areas with a high explosion risk. This includes filling stations, fuel storage areas or chemical factories, as well as places where the air contains fuel vapour, chemicals or metal dust.**



**The functioning of cardiac pacemakers or hearing aids may be impaired when the phone is in use. Check with a doctor or manufacturer whether any such devices you or your passengers are using, are sufficiently protected against high-frequency energy.**

The Health Industry Manufacturers' Association recommends that a minimum separation of 15 centimetres (6 inches) is maintained between a wireless phone antenna and a pacemaker, to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by, and recommendations of, Wireless Technology Research.



**Always stow your mobile phone securely.**

## TELEPHONE COMPATIBILITY

The Bluetooth® telephone system can be used with an appropriate Bluetooth® equipped mobile telephone.

**Note:** *Some Bluetooth® mobile phones are better than others at utilising the full potential of the vehicle's Bluetooth® system.*

Please refer to the OWNERSHIP section of the Land Rover website at [www.landrover.com](http://www.landrover.com), Select Bluetooth for a list of compatible phones. Alternatively, please refer to your Dealer/Authorised Repairer.

**Note:** *The Bluetooth® equipped phones listed, have been tested for compatibility with Land Rover vehicles. Performance will vary, based on the phone's software version, battery condition, coverage and your network provider. Phones are warranted by their manufacturer, not Land Rover.*



The Bluetooth® system supports Bluetooth® Hands Free Profile 1.5 (HFP 1.5). If the mobile phone paired to the system also supports this profile, additional features will be available such as battery meter, signal strength and network operator. If the mobile phone does not support these features, they will not be available on the touch screen. However, you can refer to the mobile phone's display to determine these items.

### PAIRING AND DOCKING USING YOUR MOBILE PHONE

*Note: The process of pairing and docking your phone with the vehicle using your mobile phone, will vary depending on the type of mobile phone used.*

1. Switch the ignition system on and ensure that the touch screen is active and that no other phone is currently docked to the vehicle's Bluetooth® system.
2. Using the mobile phone, search for Bluetooth® devices. On some phones, this is referred to as a new paired device. See your phone's operating instructions for further information.
3. From the list of discovered devices, select Land Rover.
4. When prompted, enter the Bluetooth® PIN (Personal Identification Number). This will be 2121.
5. Your phone should now pair and dock to the vehicle system. If not, please consult the mobile phone's instructions for further information.

*Note: Some mobile phones do not automatically dock and will require to be manually docked.*

*Some mobile phones require you to authorise the connection each time you start the system. To change this, you must set Land Rover as being authorised in the mobile phone's known device list. Please consult the mobile phone's instructions for further information.*

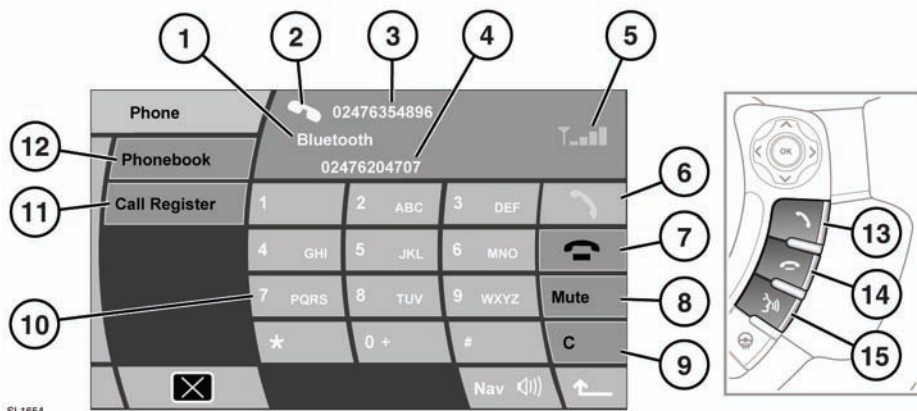
### CHANGING THE DOCKED PHONE

Up to 5 mobile phones can be paired with the vehicle in the same way. However, only one can be docked at any one time.

If the vehicle system automatically docks to another Bluetooth® device, turn off the Bluetooth® activation facility of that device.

If the maximum number of telephones are already paired to the system, a message will be displayed and you are given the option to remove one. This must be carried out before a new telephone can be paired.

## TELEPHONE MENU



1. Network name. Bluetooth is displayed if no network is available.
2. Active call icon.
3. Call information.
4. Scratchpad line. Record a phone number during a call.
5. Signal strength indicator.
6. Connect icon. Use to make or answer a call.
7. Disconnect icon. Use to end or reject a call.
8. **Mute**. Touch to mute the call.
9. **C**. Brief touch to clear the last number. Touch and hold to delete complete number.
10. Numeric keypad.
11. **Call Register**. Lists all phone messages.
12. **Phonebook**. Select to access the Phonebook.
13. Press connect icon to make or answer a call.
14. Press disconnect icon to end or reject a call.
15. Voice control.

## CALL VOLUME

The phone call volume is operated by the audio system's volume control.

If the audio system is in use when a phone call is active, the audio source is suppressed for the duration of the call. Navigation instructions and parking aid warnings are not suppressed.

## DIGIT DIAL

Using the on-screen keypad, enter the required number. Up to 20 digits are acknowledged. If more numbers are entered, an error message will be displayed. Touch a connect icon to send.

**Note:** When entering a number, you can change the phone number shown on the touch screen using the **C** button. A momentary touch erases a single digit, a long touch erases the complete number.

## LAST NUMBER REDIAL

If your mobile phone supports this feature, it will be available on screen.

1. Touch a connect icon.

2. The last dialled number will be displayed and dialling will commence.

## INCOMING CALLS

When a new call is incoming and the Phone display is not active, an information pop-up will appear. Touch a connect icon to receive the call.

To reject the call, touch a disconnect icon.

## SCRATCHPAD

This function allows a number to be entered during an active phone call. After ending the call, the scratchpad number will move up to the top area of the screen.

To dial that number, touch the Connect icon or use the **C** soft key to delete it.

## CONTINUING A CALL WITH IGNITION OFF

If you need to turn off the ignition during a telephone conversation, there are two choices of how to continue the telephone call.

1. If you want to continue using the vehicle telephone system, ensure that the audio system is ON before turning off the ignition.  
The vehicle telephone system will continue to be available while the current phone call is active. When the phone call is terminated the vehicle system will shut down.
2. If you want to continue the phone call using your mobile phone, ensure that the audio system is turned OFF before turning off the ignition.

## PHONEBOOK

Certain mobile phones store phonebook contacts in two different areas, on the SIM card and on the phone memory. Where possible, the vehicle will download and display contacts from both areas.

When a phone is removed from the vehicle and the Bluetooth link is broken, the phonebook will be deleted from the vehicle system.

To access the phonebook:

1. Select the **Phone** menu.
2. Select **Phonebook**.
3. The phonebook screen is displayed.

There are 2 methods to access contacts from the phonebook, via the scroll list or via the search feature:

**Method 1 - using the scroll feature:**



1. Use the up/down scroll arrows to view the contacts list.
2. Contact names and numbers are displayed alongside a connect icon.
3. When the required contact is displayed, touch a connect icon.

Alternatively, use the search controls on the steering wheel.

## Method 2 - using the search feature:



SL1608

1. Use the keyboard to enter the contact name. If an error is made, use the **Delete** soft key.
2. When the required contact is displayed, touch a connect icon.

## CALL REGISTER

In this area you can view lists of phone messages, details of previous calls, missed calls and received calls.

A call can be made to any of the contacts within the different areas of the call register. Touch the icon corresponding to the contact you want to call. If a call is made the display reverts to Phone mode.

**Note:** *These functions will be available only if your phone is capable of sending the call lists to the vehicle.*

Accessing phone messages:

1. Touch the **Call Register** soft key.
2. The Phone Messages menu is displayed.

Accessing previously dialed numbers:

1. Touch the **Call Register** soft key.
2. The Phone Messages menu is displayed.
3. Touch the **Dialled** soft key.
4. The Last Dialled menu is displayed.

Accessing missed calls:

1. Touch the **Call Register** soft key.
2. The Phone Messages menu is displayed.
3. Touch the **Missed** soft key.

4. The **Missed** menu is displayed.

If a call is missed while the Phone menu is displayed, touch the **Call Register** soft key to access caller information.

If a call is missed while in another display mode, an information pop-up will appear with a **View List** option. Select **View List** to display the missed call(s).

Accessing previously received numbers:

1. Touch the **Call Register** soft key.
2. The Phone Messages menu is displayed.
3. Touch the **Received** soft key.
4. The **Received** menu is displayed.

## TELEPHONE VOICE CONTROL



**Do not use voice control when placing emergency calls.**

Press and release the voice button on the steering wheel. After the tone, speak one of the commands. If the system asks for more information, wait until the tone has sounded before replying.

To cancel a voice control session, press and hold the voice button until a double tone sounds.

## TELEPHONE VOICE COMMANDS

The voice control system understands predefined commands, which need to be spoken word for word. For each of the following commands, phone can be substituted by telephone.

- PHONE DIAL NUMBER.
- PHONE DIAL NAME.
- PHONE REDIAL.
- PHONE STORE NAME.
- PHONE PLAY DIRECTORY.
- PHONE DELETE DIRECTORY.

- **PHONE HELP.**

When using these commands, the system will guide you through the process. After each prompt for a response, wait for the tone before responding. Some responses are a simple **YES** or **NO**.

When using the **PHONE DIAL NUMBER** command, the phone number can be given as a series of single digits from zero to nine. You can also speak the number in groups of three to six digits. If you use this method, always wait for the system to respond with **CONTINUE** before providing the next group of numbers.

When making a call to another country, start the number with the command **PLUS**, then start the number with the country code.

When prompted with the **CONTINUE** message, the following commands are available to use.

- **DELETE** - Deletes all digits entered.
- **CORRECTION** - Deletes the last entered digit.
- **CANCEL** - Cancels dialogue.
- **DIAL** - Dials the entered number.

The **PHONE REDIAL** command can be used to dial the last number used.

## TELEPHONE VOICE NAMETAGS

The voice control system allows you to enter nametags against telephone numbers.

To store a nametag, use the command **PHONE STORE NAME** and follow the prompts to enter the number and your nametag.

When prompted with the Continue message, the following commands are available to use.

- **DELETE** - Deletes all digits entered.
- **CORRECTION** - Deletes the last entered digit.
- **CANCEL** - Cancels dialogue.
- **STORE** - Stores the entered number.

To dial a number stored under a nametag, use the command **PHONE DIAL NAME** and follow the prompts.

To play all the nametags stored in the directory, use the command **PHONE PLAY DIRECTORY**. The list can be interrupted at any time by using the following commands.

- **DELETE** - Deletes a nametag and associated telephone number.
- **DIAL** - Dials the number associated to the nametag.
- **REPLAY** - Replays the nametag list.
- **CANCEL** - Cancels playback.
- **EDIT** - To edit the nametag or associated telephone number.

To delete all entries in the vehicle voice recognition phone directory, use the command **PHONE DELETE DIRECTORY** and follow the prompts. You will be asked twice to confirm deletion.

The contacts and numbers deleted are only those copied to the vehicle directory. This process cannot delete the directory stored on the mobile phone.

## ADDING A NEW NUMBER AND NAMETAG

A new contact can be stored via the touchscreen.

1. From the Home menu, select **Settings**.
2. Select **Voice Settings**.
3. Select **Voice Add Name**.
4. Using the keypad, enter the telephone number.
5. Select **Add** to initiate the voice recognition **PHONE STORE NAME** function.
6. Follow the prompts to add a nametag.

## THINGS YOU NEED TO KNOW



**Operate the system only when it is safe to do so.**

The requirements of national Road Traffic Regulations always apply.

Observation of traffic signs and local traffic regulations always take priority.

The navigation system serves solely as an aid to navigation. In particular, the navigation system cannot be used as an aid to orientation when visibility is poor.

The navigation system uses signals from Global Positioning System (GPS) satellites combined with information from data stored on the vehicle hard drive, to establish the true vehicle position.

GPS signals may occasionally be interrupted due to physical barriers such as tunnels and roads under raised highways.

However, direction and speed sensors on the vehicle will minimise any adverse effect on the navigation system. Normal operation will resume once the obstruction has been passed.

## VEHICLE POSITION ERROR

Under certain conditions it is possible for the vehicle position shown on screen to be incorrect. This may happen when:

- Driving on a spiral ramp in a building.
- Driving on or beneath elevated roads.
- Two roads are close and parallel.
- The vehicle is transported to another destination.
- After the vehicle is rotated on a turntable.
- After vehicle battery disconnection.

If the vehicle position is incorrect, apply the Calibration procedure. See **VEHICLE POSITION CALIBRATION, 167**.

## ACCESSING NAVIGATION

To turn on the navigation system touch the Navigation soft key. Alternatively press the NAVIGATION hard key on the fascia.

If the navigation screen language has not been set, now is the time to set it. Select **Language**, make a selection and confirm it by touching the **OK** soft key. You will be returned to the **CAUTION** screen.

After touching the **Agree** soft key, the touch screen will display the main **Menu** or the screen that was in use when you last switched off the system.

***Note:** After approximately 12 seconds, the menu soft keys will disappear and display the map information only. This will show current vehicle position. Touch the **Menu** soft key to display the full **Menu** screen.*

At this point, the first time user should set up personal preferences in the **Navigation Setup** area. These settings are applied whenever navigation is used.

## PERSONAL PREFERENCES

Select Navigation Setup from the main menu. Changes made here will affect only the navigation system.

The following parameters may be configured:

- **User Settings.** Scroll to view all options. Set as required.
- **Quick POI Selection.** Points of interest icons may be added or removed from the map screen.
- **Calibration.** The vehicle position can be set.
- **Restore Defaults.** Reset to factory defaults.
- **2D/3D View.** Both the map view and guidance view can be toggled between 2D and 3D views.

- **RDS-TMC.** Traffic information settings.

***Note: Map Change** is for Dealer use only when a navigation hard drive update is required.*

## VEHICLE POSITION CALIBRATION

To set vehicle position:

1. Select **Navigation Setup** then **Calibration**.
2. Select **Position/Direction**. This will display the approximate position of the vehicle.
3. Use the arrow icons to move the pointer to the exact position. Use the zoom feature if necessary.
4. Touch the **OK** soft key.
5. Now use the arrows to align the vehicle with the map direction.
6. Touch the **OK** soft key.

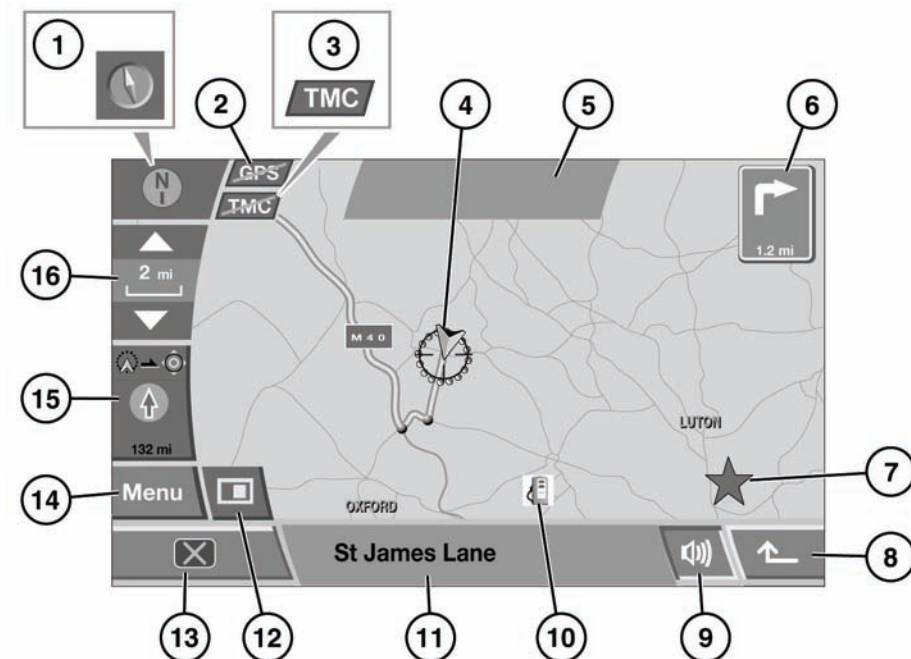
## VOICE GUIDANCE

When the navigation voice is in use, its volume can be adjusted to suit personal preference.

1. Press and hold the **Tone** hard key. The **Volume** menu will be displayed.
2. Select **NAV** to display a bar graph.
3. Use the **+** and **-** soft keys to adjust navigation voice volume.

After 10 seconds the screen will revert to the previous view.

## NAVIGATION SCREEN OVERVIEW



SL1459

- Map direction control. This icon controls the orientation of the map. Touch to toggle between North is up on the map, or direction of vehicle travel is up.
- Global positioning system (GPS) availability. If a line appears through this icon, GPS is not available.
- Traffic Master Channel (TMC) availability. If a line appears through this icon, TMC is not available.
- Vehicle position icon. When **North is up** is selected, this icon will follow the direction of vehicle travel.
- Message display area.
- Distance to next turn.
- Location of a TMC incident.
- Return to previous screen soft key.
- Repeat last voice instruction soft key.
- Point of Interest (POI). Fuel station icon is shown in the example.  
**Note:** POI icons will not be displayed if the zoom level is above 1km (1/2 mile).
- Current street location.
- Display screen mode options soft key.
- Screen off soft key.
- Return to the navigation menu soft key.
- Straight line direction and distance to destination. When a number is shown at top right of the icon, this is the distance to the next way point.
- Zoom control soft key.



## SCREEN MODE OPTIONS

Touch the screen mode options soft key to display the possible options. Touch the relevant icon to change the screen mode:



Show full screen



Show the split screen. A more detailed view of the local area and road system is displayed in the right side of the screen.



Show the compass. Compass can be set as 'north is up' or 'vehicle is up'



List of forthcoming junctions and turn directions shown on the split screen



This icon displays enlarged next junction guidance info on the split screen



This facility is only available when travelling on the motorway, and displays the remaining motorway exits (up to your required exit) and the exit numbers



Automatically shows the next junction on the right of the screen.

## ENTERING A DESTINATION

From the navigation menu, select Destination Entry.

If you are travelling to another country on your journey, it is advisable to change the destination search using the **Search Area** soft key prior to entering your destination. This will reduce the time taken to calculate a route.

There are several methods for entering a destination. With each method you can select from a list of route preferences, choose alternative routes and add intermediate points to your journey.

The following destination entry options are available, all are selected by touching the appropriate soft key:

- **Address:** This allows you to enter a specific street address, street or town.
- **Point of Interest (POI):** This allows selection of a destination from the POI categories.
- **Postcode:** The simplest method to enter a destination using the postcode.
- **Map:** A destination can be selected by pinpointing on a map.
- **Coordinates:** The destination is entered as longitude and latitude coordinates.
- **Memory:** Up to 106 destination locations can be stored in the system memory.
- **Previous:** The previous 20 destinations are stored for future use, and one of them may be selected using this option.
- **Motorway Entry/Exit:** Enables selection of a motorway junction as a destination.
- **Home:** Can be used to store a frequently used location.
- **Off-road Point:** This allows a destination used in off-road navigation to be selected as a destination.

## ENTERING AN ADDRESS AS A DESTINATION

Select **Address**, then **Town Name** and enter the name of the town on the keyboard. Next, enter the **Street** using the soft key, then House Number (if known).

When an entry is made (in **Street** or **Town Name**), if the system recognises enough letters, a list of matching options from the database will be displayed. Select the required street or town by touching it.

Once the address has been entered, touch the **OK** soft key. A map of the destination will be displayed overlaid with fine tune arrows.

To fine tune the destination, touch the required arrow on the screen. When you are ready to calculate a route, touch the **Destination** soft key.

A route will be calculated and a map overview of the route displayed. The destination is identified by a red circle containing a white ring.

If satisfied with the destination and route displayed, touch the **Start** soft key begin your journey. Your route will be highlighted on the map, with an arrow depicting your current location. Voice guidance instructions will guide you along the route.

## ENTERING A POINT OF INTEREST (POI) AS A DESTINATION

Select the **POI** soft key, followed by a **POI Name**. Use the keyboard to enter a place name (e.g. Banbury) to display any related locations on the map.

Touch the **Categ** soft key to view a list of the POI categories, or touch the **List** soft key to view a alphabetical list of available POIs in all categories.

POI entry may also be made using the **POI Near** or **Phone Number** options.

**Note:** POI icons can only be displayed up to the 1km (1/2 mile) zoom level.

When a suitable POI has been selected, touch the **Destination** key to begin route calculation.

A confirmation screen will be displayed, followed by the map screen with the destination identified by a red circle containing a white ring.

If satisfied with the destination and route displayed, touch the **Start** soft key begin your journey. Your route will be highlighted on the map, with an arrow depicting your current location. Voice guidance instructions will guide you along the route.

## ENTERING A DESTINATION USING A POSTCODE

If the destination postcode is known, it can be used to calculate a route. Select the **Postcode** soft key and enter the postcode using the keyboard, including any spaces or punctuation. When entered, touch **OK**, followed by **Destination**.

If satisfied with the destination and route displayed, touch the **Start** soft key begin your journey. Your route will be highlighted on the map, with an arrow depicting your current location. Voice guidance instructions will guide you along the route.

Destination entry by postcode is not available in all countries. The navigation system provides full postcode entry in the following countries:

- Austria
- Belgium
- Denmark
- France
- Germany
- Italy
- Luxembourg
- Spain
- Switzerland
- United Kingdom

The navigation system provides reduced postcode entry in the following countries:

- Netherlands - first 4 numeric digits only.
- Sweden - first 3 digits only.

## ENTERING A DESTINATION USING THE MAP

If the destination is in the general location of your vehicle, entry via the map may be used.

Select **Map** from the **Destination** menu. The local area will be displayed as a map overlaid with fine tune arrows. Using the **Zoom** function and the fine tune arrows, position the destination arrow over your required destination and select **Destination**.

The navigation system will calculate your route and display it on the screen. To start your journey, select **Start**.

## ENTERING A DESTINATION USING COORDINATES

To navigate to a latitude/longitude destination, select **Coordinates**. Enter the coordinates using the numeric keypad.

**Note:** *The full latitude must be entered first, followed by the longitude.*

Once the coordinates have been entered (using the appropriate symbols for degrees, minutes, seconds as required) select **OK**. The system will calculate the route and display on the map.

**Note:** *If the coordinates entered are not within the area covered by the navigation system, a error message will be displayed. This may also occur if the coordinates are entered incorrectly.*

## RECALLING A DESTINATION FROM THE MEMORY

Over time it is possible to build up a list of stored destinations. Information such as location name, the name of a person or a telephone number can be stored alongside each destination.

Select **Memory** from the **Destination** screen. The **Memory Points** menu is displayed with a list of any stored memory points. Use the arrow soft keys to scroll through the list. Touch a destination to select it, and the details will be displayed as a confirmation. Select **Destination** to confirm and select.

The navigation system will calculate the route and display it on the map.

**Note:** *While driving, scrolling on the destination list will be disabled and you will only be able to select from the destinations visible at the top of the list.*

## RECALLING A PREVIOUS DESTINATION

To recall one of the previous 20 destinations, select **Previous**. A list of the stored destinations is displayed. Touch the desired destination to select it. The details will be displayed as confirmation, select **Destination** to confirm.

The navigation system will calculate the route and display it on the map.

**Note:** *While driving, scrolling on the destination list will be disabled and you will only be able to select from the destinations visible at the top of the list.*

## RECALLING A MOTORWAY JUNCTION AS A DESTINATION

Motorway junctions must be previously stored before they may be entered as a destination. The motorways are also stored as memory points. See **STORING NEW LOCATIONS, 174**.

Select **Motorway Entry/Exit** to display a list of stored junctions and select your desired destination by touching it. The details will be displayed as confirmation, select **Destination** to confirm.

The navigation system will calculate the route and display it on the map.

**Note:** While driving, scrolling on the destination list will be disabled and you will only be able to select from the destinations visible at the top of the list.

## RECALLING HOME AS A DESTINATION

Once a Home destination is stored (see **174, STORING NEW LOCATIONS**), it can be easily recalled.

Select **Home**, followed by **OK** to confirm. The navigation system will calculate the route and display it on the map. Select **Start** to begin your journey.

## RECALLING AN OFF-ROAD POINT

If an off-road route has already been stored, it can be recalled and used as a new destination.

Select **Off-Road Point** and a list of stored routes will be displayed. Up to 20 off-road routes can be stored. See **STORING NEW LOCATIONS, 174**. Select the desired route from the list, and touch to select. The details will be displayed as confirmation, select **Destination** to confirm. The navigation system will calculate the route and display it on the map. Select **Start** to begin your journey.

**Note:** While driving, scrolling on the destination list will be disabled and you will only be able to select from the destinations visible at the top of the list.

## MAKING CHANGES TO A ROUTE

The route calculated by the navigation system may not exactly fit the requirements of a particular journey. A choice of options are provided which may be selected to tailor the route, these include:

- Specific road types.
- Vehicle transport types.
- A choice of routes.
- A facility to add additional points along the route.

Each of the options is accessed via a soft key when they become available.

## ROUTE PREFERENCES

With each of the destination entry methods described, a map screen appears when the route is selected, showing the fine tune arrows and the selected route. Also on this screen, to the right, is the Route Prefs soft key.

This soft key allows selection of a number of options available on the selected route. Options include:

- Ferry.
- Toll roads.
- Major roads (includes motorways).
- Restricted roads.
- Car trains.

The arrow soft keys allow scrolling through the list. To select an option touch the appropriate soft key, and then select **OK** to confirm. The navigation system will then recalculate the route according to the option selected and continue in the normal way.

The **Route Preferences** menu may also be accessed via the main navigation Menu. From here, select **Route Options**, followed by **Route Preferences**.

## SELECTING ALTERNATIVE ROUTES

While setting a destination, the map screen is displayed showing the suggested route that the navigation system has calculated. To see available alternate routes, select **3 Route** at the bottom of the screen. Up to 3 alternate route options will then be displayed on the right hand side of the screen.

To select one of the alternate routes, touch the appropriate information box. The navigation system will then continue in the normal way with the newly selected route.

## ADDING WAYPOINTS TO A ROUTE

Additional points added to a route are called waypoints. Up to 5 waypoints can be added to a journey. To add a waypoint, prior to selecting **Start** (to begin the journey), select **Change Route** (located at the bottom of the screen). The **Route Options** screen will be displayed.

Select **Destination/Waypoint**, then select **Add**. The **Destinations** menu will be displayed, and waypoint destinations may be added in the same way as the original destination.

Once a waypoint has been added, and the map screen is reached, select **Waypoint** to confirm.

The system will then return to the **Route Options** menu, where further waypoints may be added if desired. To add a waypoint between two other waypoints, touch the **Add** soft key between them. When all waypoints have been added, select **Calculate** to calculate the route. When ready to begin the journey, select **Start**.

Waypoints may be added at any point in the journey by selecting **Waypoint** and following the above procedure.

## CHANGING THE ORDER OF WAYPOINTS

To change the order of waypoints, select **Waypoint**, then select **Edit**. A list of waypoints in the current journey will be displayed. Select **Change Location** and it will change to **Change Order**. Touch the soft key again to highlight it, and then touch the waypoints in the order you would like to visit them. The order number will be displayed to the right of each waypoint. When satisfied with the new order, select **OK** to confirm. The new route will then be calculated. Numbers will be displayed next to **Waypoints** on the map to indicate their order in the journey. When ready to begin the journey, select **Start**.

## PREVIEWING THE ROUTE

From the **Route Options** menu, it is possible to preview the chosen route, turn by turn.

A list of roads can be displayed, giving the opportunity to add road avoidance requests (if desired). From the **Route Options** menu, select **Route Preview**. A map is displayed, showing the current vehicle location. At the base of the screen, is a set of soft keys allowing you to play through the route as required.



Start preview playback



Jump to the next way point or destination



Fast forward through the preview (only available during playback)



Pause the preview playback



Preview the route in reverse, starting with the destination



Jump back to the start point



Fast reverse through the preview (only available during playback)

**Note:** If waypoints are included in the route, the preview will pause at each waypoint. To continue the preview, touch the appropriate preview control soft key.

## VIEWING POINTS OF INTEREST (POI) IN PREVIEW MODE

While in preview mode, it is possible to view points of interest along the route. Select **Edit** (on the right of the preview) to display the Edit Route Preview options.

A list of selected POIs is displayed (e.g. fuel stations, restaurants, hotels, etc.). If the POI category required is not displayed, select **Other** to display a full list. Once a POI category has been selected, select **OK** to confirm.

**Note:** The Route Preview edit menu also allows other playback settings to be altered to the users preferred settings.

## WHOLE ROUTE PREVIEW AND TURN LIST

To preview the entire route, from the Route Options menu, select **Display Route**. A start to finish preview of the entire route will be displayed.

A list of all the roads on the route, their designations, distance between turns, and the type of junction or turn will be displayed.

Select **Turn List** to display a list of all the roads on the route (it may be necessary to use the scroll soft keys to view the full list).

To avoid a particular road on the list, select **Street Avoid** to display a list of road names. Touch a street on the list to avoid it, then select **Yes** to confirm. To cancel a street avoid request once entered, touch the highlighted street name a second time.

When satisfied with all choices select **Re-route** to calculate the new route, then select **Start**.

## STORING NEW LOCATIONS

To store a location, from the Navigation menu, select **Stored Locations**.

A number of different locations may be stored within the navigations system (e.g. a place of work, a road junction, a favourite restaurant or an area to avoid).

Up to 106 locations may be stored for future use, and six of those may be linked to the **Home** and 1-5 preset location soft keys at the bottom of the screen.

To add a location, select **Memory Points**, then select **Add**. The Store Memory Points page is displayed.

In this example, the M69 motorway exit onto the A5 major road will be stored. Select **Motorway Entry/Exit** to display the keyboard screen.

Add the motorway letter **M** on the keyboard, then select **0-9** to bring up the numeric keyboard, and enter the motorway number (e.g. **69**). Select **M69** motorway from the list to select it. Select **Exit** and a list of motorway exits on the M69 is displayed.

Use the arrow soft keys to scroll through the list and select **A5**.

A map screen is displayed with the fine tune arrows present. If required, fine tune the destination with the arrows and when satisfied, select **OK**.

The screen will return to the **Memory Points** menu. Before saving the location, further information can be added to the location, as follows:

- **Attribute:**

To add an attribute to the memory point, touch the attribute soft key.

This allows the memory point to be designated as your home address or some other memorable location, and remembered as one of the preset soft keys.

To set as a home address, touch the **Home** icon soft key at the top of the page.

***Note:** It is highly recommended that your actual home address is not stored as a memory point, but a point near to your home is stored. This prevents a thief locating your home in the event that the keys and vehicle are stolen.*

To set as one of the 5 preset keys described, touch a blank 1-5 soft key and enter a name for the memory point on the next screen. Then select **OK**.

If all the presets have memory points stored to them, go back to the **Memory Points** menu and delete one of the existing preset memory points using the **Delete** soft key.

- **Name:**

To add a name to a memory point, select **Name**. Enter the name using the keyboard and select **OK** to confirm.

***Note:** To change the name, you must first delete the entry.*

The name can be displayed on the navigation map by selecting **Show Name** on the **Memory Points** menu.

- **Location:**

The location of the memory point may be fine tuned using the location soft key. This will bring up the fine tune map screen with the fine tune arrows. Use this screen to alter the location, and when satisfied, select **OK** to confirm.

- **Icon:**

An icon and a sound bite may be added to the memory point using this soft key. If an icon is attached, it will be displayed on screen maps if it is within the display area. Any attached sound bite will be replayed as you approach the memory point.

On touching the **Icon** soft key, a menu will appear giving a choice of icons to attach. Select an icon or, if no suitable icon is present, select **No icon**.

To add a sound bite, select **With Sound**. Select a sound icon, then touch the **Play** icon to record the sound.

Once all additional information has been stored, select **OK** to confirm.

The display will return to the **Memory Points** menu, which can be selected for editing. When satisfied, select **Return** (bottom right hand corner of the screen) to return to the main **Memory Points** menu.

From this menu, memory points may be added to the other categories:

- Address.
- POI.
- Postcode.
- Map.
- Coordinates.
- Memory.

- Previous.
- Home.

The process used for adding memory points to the other categories is the same as that described above.

## EDITING A MEMORY POINT

To edit a memory point, select **Edit** from the **Memory Points** menu.

Select the memory point to edit and edit using the same process as entering a new memory point.

## DELETING A MEMORY POINT

To delete a memory point, select **Delete** from the **Memory Points** menu. Select the memory point you wish to delete by touching it. A confirmation screen will be displayed, select **Yes** to confirm. The display will return to the **Memory Points** menu.

To delete all memory points, select **Delete All** on the delete screen.

## AVOID POINTS

Once a route has been selected, a single or a series of avoid points may be selected.

Once the avoid points are entered, the system will recalculate the route to avoid them.

To add avoid points, select **Avoid Points** and select **Add**. A destination screen is displayed, allowing a number of options for adding avoid points.

When the fine tune map screen is reached, use the arrows and zoom soft key to fine-tune your selection in the normal way. When satisfied, select **OK**.

The following screen allows the size of the avoided area to be set, use the **Reduce** and **Enlarge** soft keys to set the size of the area, and when finished, select **OK**.

A confirmation screen will be displayed and the area stored to the memory.

From the **Avoid Points** menu, the **Edit** and **Delete** soft keys can be used to adjust or remove an avoid point.

## STORING A HOME LOCATION



When storing a home location, it is advisable to store an alternative location close to your home address. This is to avoid giving away your home address should the keys and vehicle be stolen.

The Home function allows a stored destination used frequently to be selected quickly and easily. Only one destination can be allocated as home.

From the **Stored Locations** menu select **HOME**, then select **Add**.

**Note:** Select **Edit** to edit the details of the existing stored location, and select **Delete** to remove the existing stored location.

Enter the home destination in the same as other destinations, adding attributes etc as desired.

## POINTS OF INTEREST

To make selection easier, POIs are categorised into several different types or groups. Some POI groups also contain subgroups.

Any of the POIs can be selected as a destination or added to your route as a waypoint. An icon will be displayed on your route map next to any POIs that you add.

To cancel the display of a POI icon, touch the map screen display additional soft keys. Touch the **POI** soft key at the bottom of the screen to access the Quick POI Menu and select **POI Off**.



## POI CATEGORIES AND SUB-CATEGORIES

The system has 8 main POI categories (listed below). When a category is selected from the **POI Category** screen, the navigation system will display the first 4 choices of that category in alphabetical order. Each category is accompanied by an icon for visual reference.

To list all options in a category, touch the **More** soft key, and select a category to view all available options.

Only POIs in the current search area will be displayed, except for the sub-categories marked **All Search Areas** in the POI category list.

### CATEGORY LIST



**Restaurants**



**Car**



**Leisure**



**Travel**



**Shopping**



**Hotel**



**Community**



**Others**

## CREATING A QUICK POI ICON

Quick POIs are frequently used POIs that are stored in a special quick access list. This allows them to be quickly selected when required. Up to 5 POIs may be stored.

To store a quick POI:

1. From the map guidance screen, touch anywhere on the map.
2. Touch the **POI** soft key at the bottom of the screen.  
***Note:** The POI soft key is only available if the zoom level is less than 1km (1/2 mile).*
3. Select the required category. If the category you require is not displayed, touch the **More** soft key to view all categories.
4. If required, scroll through the list to locate the required category, and touch it to highlight.
5. Repeat for other POIs you wish to add (up to 5), then touch **OK** to confirm.

## SELECTING A QUICK POI AS A DESTINATION

During a journey, touch the **POI** soft key at the bottom of the screen, and then touch the required **Quick POI** icon.

## CHANGING A QUICK POI ICON TO A NEW POI

To change one of the stored quick POI icons to a different POI:

1. Access the **Quick POI** screen, and select the one to be changed.
2. Touch the **Delete** soft key to remove it.
3. Select the new category you would like to add, and select **OK**.

## RDS-TMC OVERVIEW

RDS-TMC allows traffic hold ups to be detected and displayed by the navigation system. It used a pre-determined radio station (known as the Traffic Master Channel or TMC) to receive this information.

The system will alert the driver to any roadworks, contra-flows, accidents etc., which may affect the current journey, in the following ways:

- A TMC event icon is shown on the map at the alert location.
- Text can be displayed showing the details of each alert.
- Voice guidance will describe the alert (if voice guidance is active).
- Dynamic route guidance will calculate and offer an alternative route.
- All alerts along the current route will be show in a list, sorted according to road name/distance along the route.

## ACTIVATING RDS-TMC

To activate RDS-TMC, touch the **RDS-TMC** soft key on the main Menu. RDS-TMS may also be selected from the Navigation Setup menu.

To begin scanning for alerts, select **Change**.

**Searching** will be displayed on the screen and when a suitable TMC radio station has been found, it will be displayed on the right of the screen. The system will continue to search for further TMC stations.

To stop the search at any time, select **Change** a second time. The list of available TMC stations will be displayed. To select a suitable station, touch its name on the list.

If no TMC station is available or selected, the TMC icon on the left of the screen will appear with a line through it.

## RDS-TMC EVENT ICONS

TMC events will be displayed as warning icons on the map and a more detailed alert may be displayed. Voice guidance will also advise of the hold-up, when an event icon exists on the current route.

TMC data is stored in the system for up to 30 minutes.

The colour of the TMC icon changes in order to show the type and priority of a TMC event. Red is for a more serious event. Other colours are for events of less serious nature. Grey is used for information.

**Note:** TMC event icons will appear on the map, even if the event does not occur on the current route.



Incident (Red)



Moving Tailback Ahead (Red)



Moving Tailback Both Carriageways (Red)



Stationary Traffic Ahead (Red)



Stationary Traffic Both Carriageways (Red)



Incident (Yellow)



Slow Traffic Ahead (Yellow)



Slow Traffic Both Carriageways (Yellow)



Information (Yellow)



Other Hazard (Yellow)



Slippery Road (Yellow)



Diversion (Yellow)



Roadworks (Pink)



Narrow Road (Pink)



Contraflow (Pink)



Accidents (Pink)



Parking Information (Grey)



Information (Grey)



Congestion (Red)

In normal map mode, while the map scale is between 50 m and 4 km (1/32 mile and 2 miles) and when an event icon is displayed, further information can be viewed by touching the event icon.

The map will zoom in on the event icon and another icon is displayed to identify the nature of the event (e.g. road works).

A message box appears at the top of the screen. Touch the **Info** soft key to display further detail of the traffic event.

Touch the **Return** soft key to return to the map guidance screen.

## USING ALTERNATIVE ROUTE GUIDANCE

When an event warning is received the system will calculate an alternative route. The new route will include any way points already set.

If the event will seriously affect progress and the original route was not set within the previous 5 minutes, a message asking for new route confirmation will be displayed for up to 10 minutes. When confirmed, the alternative route map is displayed.

## USING VOICE GUIDANCE WITH RDS-TMC

With voice guidance activated, the system will give audible notification of traffic events during the journey (they are disabled at the destination).

To repeat the voice guidance message, touch the TMC alert icon.

After the vehicle passes the event, the next event on route will be displayed.

## ROUTE TRAFFIC EVENT LIST

During a journey, touch the Traffic on Route soft key to generate a traffic event list for that journey.

The traffic event list will identify the cause of each event, the road that the event is affecting and the distance to the event. To view more detail about an event or to view a map of the event area, select the relevant **Detail** or the **Map** soft key alongside the event list.

If the vehicle is not on the highlighted route, a pop-up error message is displayed.

## NEARBY TRAFFIC EVENTS

When the **All Traffic Events** soft key is touched, all nearby traffic events are listed.

Up to 20 events can be shown in distance order from the current vehicle position. Use the scroll arrows if required.

While the list is being displayed the information will not update.

Further information will be displayed when a road is selected.

Touching the **Map** or **Detail** soft keys will display detailed information.

## CUSTOMISING TMC INFORMATION

To edit which TMC alerts are displayed, touch the **Show TMC Information** soft key.

Touch the categories to highlight (orange) the traffic events required. Use the arrow soft keys to scroll through the list.

Alternatively, select **All On** or **All Off** to highlight all or none of the options.

When satisfied with the selection, select **OK** to confirm.

## AREA SURVEILLANCE

This feature allows up to 3 frequently travelled areas to be monitored for slow or stationary traffic. The information can be viewed at any time, and the vehicle does not need to be in or near the area.

RDS-TMC must be available in the selected area and TMC must be enabled in order to display TMC events.

To activate area surveillance, from the **RDS-TMC** menu, select **Surveillance Setting**, and select **Add**.

Choose any of the available methods to select a surveillance area. Setting the location of a surveillance area is similar to entering a destination or way point.

If you select **Map**, you can position the area accurately by zooming in. Save the surveillance area to one of the three tabs. The map will then display the saved area.

## ACCESSING A SURVEILLANCE POINT

To access a surveillance area, touch one of the surveillance icons on the map guidance screen.

Select the surveillance point you wish to view.

The chosen surveillance point is displayed. Any traffic events will appear as icons on the map.

- Select **Set Destination** to set the surveillance point as the destination or as a way point.
- Select **POI** to view POIs in the locality of the surveillance point.
- Select the marker pin soft key to set the surveillance point as a memory point.

Touch the **Reset Map** icon at the top of the screen to return to normal map mode.

## OFF ROAD NAVIGATION

If available, access the **Off Road Navigation Menu** by touching **Destination Entry**, then **Off Road Point**.

Off road navigation maps are similar to the on-road maps but have additional features and information, such as a large compass display, heading, altitude, latitude and longitude etc.

When switching to off road navigation mode during on-road guidance, the current highlighted route will be removed from the map and on-road guidance will be suspended.

Way points and destination icons will remain displayed. The destination is marked with a double circle.

When exiting off road guidance, the system recalculates the route and reverts to on-road guidance.

**Note:** *TMC is not available in off road navigation mode.*

## NEW ROUTE

From the off road navigation main menu, the New Route soft key allows the following route entry methods:

- Map.
- Previous.
- Memory.
- Distance and Bearing.
- Coordinates.
- Off Road Points.

Entering destinations is achieved using the same methods as on-road navigation mode.

## LOAD ROUTE

Load route allows a previously stored off road route to be recalled in the same manner as on-road stored route. Touching the Load Route soft key will bring up a list of stored routes, touch the desired route to select. When loading a route, the current vehicle location is stored as the starting point, shown as the letter S on the map screen.

## ROUTE OPTIONS

The Route Options soft key allows access to the following commands:

- **Edit Route**

These menu items are identical in operation to the On Road menus.

A maximum of 20 off-road routes can be stored. When the maximum is reached the

**New Route** soft key will no longer be active.

- **Cancel Route:**

Allows a selected route to be cancelled.

Touch the soft key to cancel guidance. All waypoints and icons will be removed.

- **Display whole route:**

The whole route can be displayed during guidance mode. It shows the total mileage of each section and updates as the vehicle position changes.

A backward or return route can be made at any time. All way point icons of the original route are reset and the system draws straight lines between them.

The original start point is now designated as the destination point and way points are numbered in countdown order.

- **Display way point list:**

Off road navigation way points are shown in numerical order. The nearest way point is the last in the list. A maximum of 35 way points can be stored.

During a forward route, the way point with the smaller number is nearest on the guidance display. During a backward or return route the smaller number is furthest away.

The bearing (e.g. R170) and distance (e.g. 1 mile) is a reference to the next way point. The bearing is the angle between the previous heading and the next way point. The displayed information is continuously updated.

While the list is shown, if the destination is reached, the system first changes to the map screen and then shows the pop-up for arrival at destination.

- **Skip Way point:**  
While on a route this soft key can be selected to skip the next way point. Guidance will then be given to the following way point.

- **Trace Points:**  
If **Current Trace Point** is selected via **Route Options**, trace point icons are automatically placed along a route as it is traversed. They are useful to backtrack along the route if required.

Adjustments to trace point operation can be made via the same screen. After selecting the **Current Trace Point** option, changes can be made to any registered trace point route.

Select one of the options, and make changes as required (e.g. trace points can be edited, renamed, turned off or deleted).

## OFF ROAD GUIDANCE SCREEN

Compass view is recommended while driving off road. Select the display screen mode icon then the compass view icon.

The compass can be viewed as 'north is up' or 'vehicle is up'. See **NAVIGATION SCREEN OVERVIEW, 168**.

### North is up

The compass North pointer will always be at the top. The vehicle position arrow in the centre will point in the direction of travel. The icon **1** on the edge of the compass is the direction to the next way point or destination.

### Vehicle is up

The vehicle position arrow in the centre will always point north. The compass will rotate to show direction of travel at the top. Icon **1** will move with the compass.

## CANCELLING GUIDANCE

Navigation guidance can be cancelled at any time. From the main navigation menu screen, touch the Cancel Guidance soft key.

## CANCELLING/REINSTATING VOICE GUIDANCE

Voice guidance can be turned off or on from the main navigation menu screen. Toggle the Voice Guidance/Auto Voice Guidance Off soft key for on/off.

## VOICE CONTROL OF THE NAVIGATION SYSTEM

Many of the navigation features can be activated by voice control. To use voice control, briefly press the voice button on the steering wheel and after the tone, speak one of the system commands. Navigation commands must be preceded with the word NAVIGATION.

In response to your command, the system will repeat your instruction and then either carry out your command or ask for more information. If the system asks for more information, wait until the tone has sounded before replying.

To cancel a voice control session, press and hold the steering switch.

The voice control system understands pre-defined commands which must be spoken word for word. A list of all navigation voice commands is given in the following table.

Some of the navigation responses are reinforced by text messages appearing in the message centre display.

Voice command	System response
NAVIGATION HELP	Gives spoken information about the navigation commands.
NAVIGATION VOICE GUIDANCE ON	Switches on voice guidance for a set route.
NAVIGATION VOICE GUIDANCE OFF	Switches off voice guidance for a set route.
NAVIGATION SHOW MAP	Displays the navigation map on the touch screen
NAVIGATION SHOW TURN LIST GUIDANCE	Lists forthcoming junctions and turn directions on the split screen.
NAVIGATION SHOW CURRENT POSITION	Shows current position of vehicle on the map.
NAVIGATION SHOW DESTINATION	Shows a route preview and allows you to fast forward to the end.
NAVIGATION SHOW ENTIRE ROUTE MAP	Shows complete route.
NAVIGATION SHOW ARROW GUIDANCE	Changes right-hand side of split screen to show arrow guidance directions.
NAVIGATION SHOW CROSSROADS GUIDANCE	When a crossroads is within 500 metres (1640 feet), the crossroad guidance directions will be displayed. If there are no crossroads, a voice message <b>There are no nearby crossroads on the set route</b> will be given.
NAVIGATION SHOW MOTORWAY GUIDANCE	When travelling on a motorway, changes right-hand side of split screen to show the remaining motorway exits, and their numbers, up to the required exit for the route.
NAVIGATION DUAL MAP MODE	Displays split screen view.
NAVIGATION SINGLE MAP MODE	Shows full screen map.
NAVIGATION SHOW NORTH UP	Changes orientation of the map so that North is at the top of the screen.
NAVIGATION SHOW HEADING UP	Changes orientation of the map so that the vehicle is always heading up the screen. A compass in the top left-hand corner will point to North.

Voice command	System response
NAVIGATION SHOW RIGHT MAP NORTH UP	Changes orientation of the right-hand map so that North is at the top of the screen.
NAVIGATION SHOW RIGHT MAP HEADING UP	Changes orientation of the right-hand map so that the vehicle is always heading up the screen.
NAVIGATION ZOOM IN MAXIMUM	Displays the map (left-hand map in split screen mode) at the maximum magnification.
NAVIGATION ZOOM OUT MAXIMUM	Displays the map (left-hand map in split screen mode) at the minimum magnification.
NAVIGATION RIGHT MAP ZOOM IN MAXIMUM	In split screen mode, displays the right-hand map at the maximum magnification.
NAVIGATION RIGHT MAP ZOOM OUT MAXIMUM	In split screen mode, displays the right-hand map at the minimum magnification.
NAVIGATION ZOOM LEVEL (plus number 1 to 13)	Enables magnification of the map (left-hand map in split screen mode), e.g. voice command <b>Navigation zoom level eleven</b> . Increments between 1 and 13 can be made.
NAVIGATION ZOOM IN (plus number 1 to 12)	Allows zooming in on the map (left-hand map in split screen mode). If the current zoom level is five, the voice command <b>Navigation zoom in two</b> , will cause the system to zoom in to level three. Increments between 1 and 12 can be made.
NAVIGATION ZOOM OUT (plus number 1 to 12)	Allows zooming out on the map (left-hand map in split screen mode). If the current zoom level is five, the voice command <b>Navigation zoom out two</b> , will cause the system to zoom out to level seven. Increments between 1 and 12 can be made.
NAVIGATION RIGHT MAP ZOOM IN (plus number 1 to 12)	Allows zooming in on the right-hand map. If the current zoom level is five, the voice command <b>Navigation zoom in two</b> , will cause the system to zoom in to level three. Increments between 1 and 12 can be made.
NAVIGATION RIGHT MAP ZOOM OUT (plus number 1 to 12)	Allows zooming out on the right-hand map. If the current zoom level is five, the voice command <b>Navigation zoom out two</b> , will cause the system to zoom out to level seven. Increments between 1 and 12 can be made.
NAVIGATION GO HOME	Sets the destination to your currently set Home. Home location can be stored using the Stored locations option, available from the Navigation menu on the touch screen.
NAVIGATION GO TO NAME	The system will respond with <b>Name please</b> and you can specify a previously stored nametag either as a destination or a way point.



Voice command	System response
NAVIGATION GO TO PREVIOUS DESTINATION	Allows you to specify a previously stored destination either as a new destination or a way point. If you are following route guidance and this is the last destination set, this will be your current destination.
NAVIGATION GO TO PREVIOUS STARTING POINT	Allows you to specify the start point of a previous route either as a destination or a way point. If you are following route guidance and this is the last start point set, this will be your current start point.
NAVIGATION SHOW (* add word) WAY POINT MAP	Displays the way point asked for, provided it has been set. *Add word - NEXT, 1ST, 2ND, 3RD, 4TH or 5TH.
NAVIGATION DELETE NEXT WAY POINT	Deletes the next way point from the route and recalculates the route if appropriate.
NAVIGATION DETOUR	Prompts the navigation to propose a detour in the current route. This takes effect from your current position and the length of the detour can be specified in Route Preferences.
NAVIGATION DETOUR ENTIRE ROUTE	Prompts the navigation to offer one of the alternative routes calculated for the current destination.
NAVIGATION CANCEL GUIDANCE	Cancels route guidance.
NAVIGATION AVOID MAJOR ROADS	Routes are calculated avoiding major roads.
NAVIGATION PREFER MAJOR ROADS	Major roads are included when routes are calculated.
NAVIGATION AVOID TOLL ROADS	Routes are calculated avoiding toll roads.
NAVIGATION PREFER TOLL ROADS	Toll roads are included when routes are calculated.
NAVIGATION AVOID FERRIES	Routes are calculated avoiding ferries.
NAVIGATION PREFER FERRIES	Ferries are included when routes are calculated.
NAVIGATION PLAY DIRECTORY	Prompts a voice message giving all the navigation nametags. This can be interrupted by pressing the voice control button and, after the tone, saying <b>REPLAY</b> , <b>GO TO</b> , <b>DELETE</b> or <b>CANCEL</b> .
NAVIGATION DELETE DIRECTORY	Delete the entire directory of navigation nametags.
NAVIGATION MARK CURRENT POSITION	Marks the vehicle's current position as a memory point.
NAVIGATION DYNAMIC ROUTE GUIDANCE ON	Switches on dynamic route guidance.

## Navigation system

Voice command	System response
NAVIGATION DYNAMIC ROUTE GUIDANCE OFF	Switches off dynamic route guidance.
NAVIGATION SHOW TRAFFIC INFORMATION	Displays Traffic information.
NAVIGATION HIDE TRAFFIC INFORMATION	Hides Traffic information.
NAVIGATION STORE NAME	<p>Allows you to store nametags as way points or destinations. Each nametag must meet the following criteria:</p> <ul style="list-style-type: none"><li>• Be spoken in more than 0.4 seconds, but less than four seconds.</li><li>• Not similar to any other nametag.</li><li>• Once stored, you must always speak the name in the same manner as during storage.</li></ul> <p>If the criteria is not met, the system will supply one of the following feedback:</p> <ul style="list-style-type: none"><li>• <b>Name too short, new name please.</b></li><li>• <b>Name too long, new name please.</b></li><li>• <b>(nametag) sounds too much like (another nametag).</b></li><li>• <b>The names entered are different, new name please.</b></li></ul>

Voice command	System response
NAVIGATION (plus POI from list)	<p>With the map magnification at 1 km (0.6 mile) or less, this command allows up to five selections from the POI list.</p> <ul style="list-style-type: none"> <li>• Petrol</li> <li>• Petrol station</li> <li>• Parking</li> <li>• Town centre</li> <li>• Hotel</li> <li>• Hospital</li> <li>• Golf course</li> <li>• Shopping centre</li> <li>• Restaurant</li> <li>• I'm hungry</li> <li>• Tourist information</li> <li>• Motorway services</li> <li>• Land Rover dealer - not Australia</li> <li>• Police station - Australia only</li> </ul> <p>If more than five are selected, the message <b>Navigation POI off</b> is given. Clear your current selection to allow further POIs to be displayed.</p>
NAVIGATION POI OFF	Hides all the POI icons.

## END USER LICENCE AGREEMENTS

Please read this agreement carefully before using the Navigation System.

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## EUROPEAN DECLARATION OF CONFORMITY



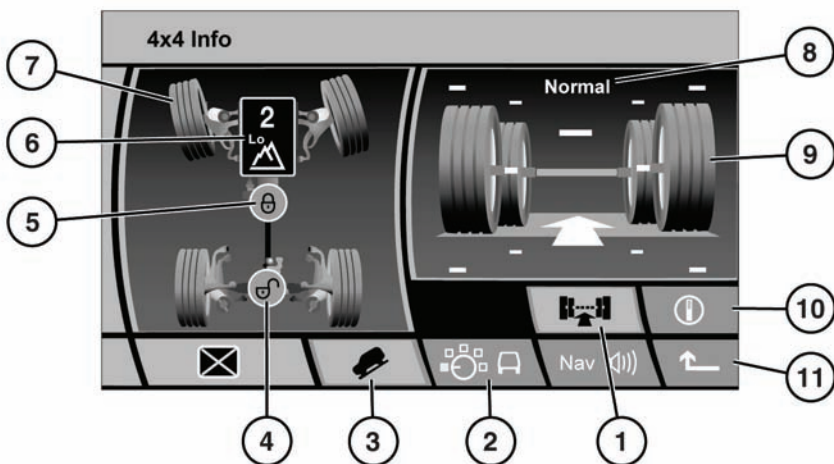
Hereby, DENSO CORPORATION declares that this DN-NS-019 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

## 4 x 4 INFO MENU

From the touch screen **Home Menu**, touch the **4 x 4 Info** soft key.

A caution screen will be displayed. Touch **Agree** to continue. The last viewed **4 x 4 Info** screen will be displayed.

**Note:** When Lo range is selected in the transfer gearbox, 4 x 4 information will be displayed in the virtual instrument panel. The speedometer will move to the right side to allow space for 4 x 4 display.



SL1679

The **4 x 4 Info** area offers no user interaction. It is for monitoring 4 x 4 data only.

1. Chassis view. Touch to select. The softkey will highlight.
2. Terrain Response view. Select to view current TR status and brief advice relating to the selection. Touch the information softkey for more detailed information.
3. Hill Descent Control on/off status. The icon is highlighted when HDC is selected.
4. Rear differential status.
  - Green icon = unlocked
  - Red icon = locked
5. Centre differential status.
  - Green icon = unlocked
  - Red icon = locked
6. Gearbox status. Displays selected gear and Hi or Lo gearbox in use.
7. Steering orientation.
8. Suspension height setting.

9. Suspension articulation.
  - The central green bar represents nominal vehicle body height.
  - The white arrow shows direction of vehicle travel.
  - White markers above and below the wheels represent limit of suspension travel. Flashing amber arrow heads will be apparent when a limit is reached.
  - Individual wheels will move up and down to indicate current articulation.
10. Compass view. Will display only when navigation is in Off-road mode. 'North is up' or 'Vehicle is up' compass display is dependent on the selected navigation mode.
11. Touch to return to previous screen.

## SAFETY PRECAUTIONS



**Avoid exposing the fuel gasses to any potential sources of ignition as the resulting fire and explosion may cause serious injuries and/or death.**



**Switch off the engine when refuelling, as it is both a source of extreme temperatures, and electrical sparks.**



**Switch off any personal electronic devices such as mobile phones or music players.**



**If a separate container is used for carrying fuel, the container must be one specifically designed for carrying fuel. Always remove them from the vehicle when filling.**

## PETROL ENGINED VEHICLES



Do not use leaded fuels, lead substitutes, or fuel additives.



Fuel system cleaning agents should not be used, unless approved by Land Rover.

## OCTANE RATING

The minimum octane rating for fuel used is 95 RON. The vehicle will run on lower ratings, but it may cause pronounced engine knock or pinking. If the pinking is severe it can cause damage to the engine, fuel and emission control systems.

**Note:** *Occasional, light, engine knock experienced while accelerating or climbing hills is acceptable.*

## ETHANOL



This vehicle is not suitable for use with fuels containing more than 10% ethanol.



Do not use E85 fuels (85% ethanol content). Equipment necessary for the use of fuels containing more than 10% ethanol is not fitted to this vehicle. If E85 fuels are used, serious engine and fuel system damage will occur.

Fuels containing up to 10% ethanol (grain alcohol) may be used. Ensure that the fuel has octane ratings no lower than those recommended for unleaded fuel. Most drivers will not notice any operating difference with fuel containing ethanol. If a difference is detected, the use of conventional unleaded fuel should be resumed.

## METHANOL



Wherever possible avoid using fuel containing methanol.

Some fuels contain methanol (Methyl or wood alcohol). If you use fuels containing methanol the fuels must also contain co-solvents and corrosion inhibitors for methanol. Also, do not use fuels which contain more than 3% methanol even if they contain co-solvents and corrosion inhibitors. Fuel system damage or vehicle performance problems resulting from the use of such fuels is not the responsibility of Land Rover, and may not be covered under the warranty.

## METHYL TERTIARY BUTYL ETHER (MTBE)

Unleaded fuel containing an oxygenate known as MTBE can be used provided that the ratio of MTBE to conventional fuel does not exceed 15%. MTBE is an Ether based compound derived from Petroleum, which has been specified by several refiners as the substance to enhance the Octane rating of fuel.



### REFORMULATED GASOLINE

These fuels are specially formulated to further reduce vehicle emissions. Land Rover fully supports all efforts to protect and maintain ambient air quality, and encourages the use of reformulated gasoline where available.

### DIESEL ENGINED VEHICLES

Land Rover recommends that only premium brand diesel fuels are used.

**Note:** Land Rover vehicles are capable of running with up to a 5% blend of bio-diesel in accordance with European Standard EN590.

### SULPHUR CONTENT



If your vehicle is fitted with a Diesel Particulate Filter (DPF) the maximum Sulphur content must not exceed 0.005%. Using an incorrect fuel will cause serious damage to the DPF.

The Sulphur content of diesel fuel used in Land Rover vehicles should not exceed 0.3% (3000 parts per million).

In some countries diesel will contain higher levels of Sulphur, which will require reduced service intervals to reduce the effects on engine components. If in doubt contact a local Land Rover Dealer/Authorised Repairer for advice.

### RUNNING OUT OF FUEL



Avoid running out of fuel. Doing so can cause damage to the vehicle's engine, fuel and emission control systems.

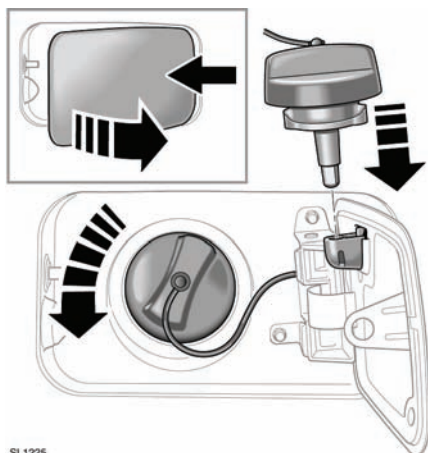
If the vehicle does run out of fuel, a minimum of 5 litres (1.1 gallons) will be required to restart the engine. The vehicle will need to be driven 1.6-5 km (1-3 miles) in order to reset the engine management and monitoring systems.

**Note:** If the vehicle does run out of fuel, seeking qualified assistance is advisable.

## FUEL FILLER FLAP



Take note of all warnings and instructions given on the label affixed to the inside of the filler flap.



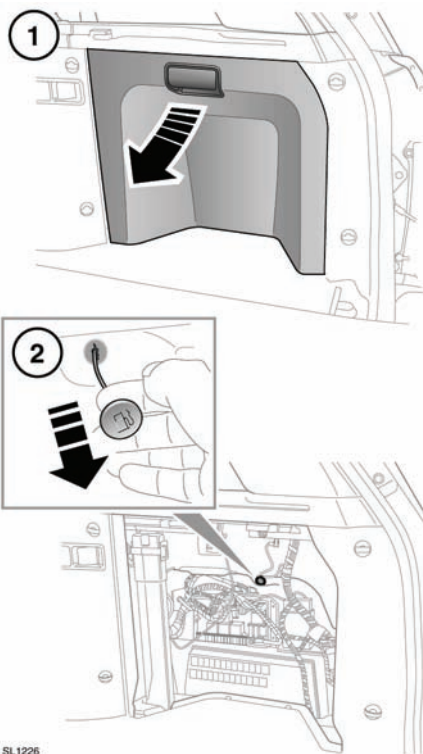
SL1225

The fuel filler flap is located on the right-hand side of the vehicle, at the rear.

1. Ensure that the vehicle is fully unlocked, and press the right side of the flap to open.
2. Open the flap fully.
3. Twist the cap counter clockwise to release.
4. Use the retaining clip to keep the filler cap out of the way while fuelling.

When replacing the cap, tighten it clockwise until the ratchet clicks.

## FUEL FILLER FLAP EMERGENCY RELEASE



SL1226

If there is no vehicle electrical power, the fuel flap can be opened manually

1. Open the rear right side access hatch.
2. Pull the green release handle to open the filler flap.

### FUEL FILLING



When refuelling ensure that all windows, doors, and sunroof are fully closed, particularly if young children or animals are in the vehicle.



Do not attempt to fill the tank to its maximum capacity. If the vehicle is to be parked on a slope, in direct sunlight, or high ambient temperature, expansion of the fuel could cause spillage.



Do not operate the auxiliary heater when refuelling the vehicle. Doing so may cause fuel vapours to combust causing a fire/explosion.



Check the fuel pump information carefully, to ensure that you are putting the correct fuel into the vehicle.



If the vehicle is filled with incorrect fuel it is essential that you seek qualified assistance before you start the engine.

Filling station pumps are equipped with automatic cut-off sensing to avoid fuel spillage. Fill the tank until the filler nozzle automatically cuts-off the supply. Do not attempt to fill the tank beyond this point.

**Note:** Filling station pumps used for diesel commercial vehicles deliver fuel at a higher rate than normal. The higher fill rate can cause premature cut-off and may cause fuel spillage. Therefore, it is recommended that only standard light vehicle pumps are used.

### DIESEL MISFUEL PROTECTION DEVICE



When the misfuelling device is activated, it may cause fuel to be discharged from the filler neck.

**Note:** It is the driver's responsibility to fill the vehicle with the correct fuel. The diesel misfuel protection device only reduces the risk of filling the vehicle with the incorrect fuel.

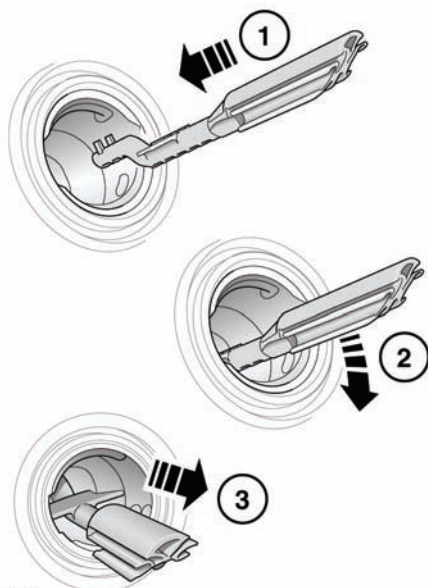
Diesel engine vehicles in some markets are equipped with a misfuelling protection device, incorporated into the fuel filler neck.

If the narrow filler nozzle fitted to pumps delivering unleaded petrol is fully inserted into the filler neck, the misfuel protection device will activate.

**Note:** The filler spout on some fuel cans and older fuel pumps may trigger the misfuelling device.

When activated, the yellow misfuel protector will be visible inside the filler neck. It will prevent fuel flow into the tank. Before fuelling can continue with the correct fuel, the device will need to be reset.

The reset tool is located in the luggage compartment.



Reset the misfuel protection device as follows:

1. Insert the reset tool (with the teeth uppermost) as far as it will go into the filler neck.
2. Locate the teeth by pushing down the top of the reset tool.
3. With the top of the tool pressed down and the teeth engaged, slowly pull the tool out of the filler neck to reset the device.

⚠ Do not twist the device, once the teeth have engaged.

**Note:** The yellow part of the protection device should no longer be visible in the filler neck.

Return the reset tool to the luggage compartment.

### FUEL TANK CAPACITY

Avoid the risk of running out of fuel and never intentionally drive the vehicle when the fuel gauge indicates that the tank is empty. When refuelling your vehicle after the fuel gauge reads empty, you may not be able to add the fuel quantity shown below, as there will be a small reserve remaining in the tank.

Total tank capacity (usable):	
Petrol	101L (22.2 gal)
Diesel	97L (21.3 gal)

### FUEL SPECIFICATION

Petrol	Diesel
95 RON	EN 590



Diesel vehicles in Algeria, Egypt, Libya, Morocco, India, Pakistan and Tunisia must use only premium diesel fuel.

## FUEL CONSUMPTION

The fuel consumption figures shown below have been calculated using a standard testing procedure (the new EC test procedure from Directive 99/100/EC), and produced in accordance with The Passenger Car Fuel Consumption (Amendment) Order 1996.

Under normal use, a vehicle's actual fuel consumption figures may differ from those achieved through the test procedure, depending on driving technique, road and traffic conditions, environmental factors, vehicle load and condition.

Variant	Urban	Extra-urban	Combined	CO2 emissions
	l/100 km (mpg)	l/100 km (mpg)	l/100 km (mpg)	g/km
V8 3.6L Diesel	14.5 (19.6)	9.2 (30.7)	11.1 (25.4)	264
V8 4.4 L Diesel	11.5 (24.6)	8.2 (34.5)	9.4 (30.1)	253
V8 NA Petrol	20.8 (13.6)	10 (28.2)	14.0 (20.2)	326
V8 SC Petrol	22.6 (12.5)	10.4 (27.2)	14.9 (19.0)	348

## URBAN CYCLE

The urban test cycle is carried out from a cold start and consists of a series of accelerations, decelerations and periods of steady speed driving and engine idling. The maximum speed attained during the test is 50 km/h (30 mph) with an average speed of 19 km/h (12 mph).

## EXTRA-URBAN CYCLE

The extra-urban test cycle is carried out immediately after the urban test. Approximately half of the test comprises steady speed driving, while the remainder consists of a series of accelerations, decelerations and engine idling. The maximum test speed is 120 km/h (75 mph) and the average speed 63 km/h (39 mph). The test is carried out over a distance of 7 km (4.3 miles).

## COMBINED

The combined figure is an average of the urban and extra-urban test cycle results, which has been weighted to take account of the different distances covered during the two tests.

For additional information on fuel consumption figures and exhaust emissions, visit the Vehicle Certification Agency (VCA) website at <http://www.vcacarfueldata.org.uk/>.



## SERVICE INTERVALS

An upcoming service interval will be notified to the driver via the Driver Information Module, as either a distance or time left until service is due. Once the distance or time are exceeded, the display will show a negative value (-) to indicate that a service is overdue.

One or both types of service interval (distance and time) may be displayed.

## SERVICE PORTFOLIO

Ensure your service provider signs and stamps the book after each service and inspection.

## OWNER MAINTENANCE



Any significant or sudden drop in fluid levels, or uneven tyre wear, should be reported to a qualified technician without delay.

In addition to the routine maintenance, a number of simple checks must be carried out more frequently.

## DAILY CHECKS

- Operation of lamps, horn, direction indicators, wipers, washers and warning lamps.
- Operation of seat belts and brakes.
- Look for fluid deposits underneath the vehicle that might indicate a leak.

## WEEKLY CHECKS

- Engine oil level.
- Engine coolant check.
- Brake fluid level.
- Power steering fluid level.
- Screen washer fluid level.
- Tyre pressures and condition.
- Operate air conditioning.

**Note:** The engine oil level should be checked more frequently if the vehicle is driven for prolonged periods at high speeds.

## DRIVING IN ARDUOUS CONDITIONS

When a vehicle is operated in extremely arduous conditions, more frequent attention must be paid to servicing requirements.

Arduous driving conditions include:

- Driving in dusty and/or sandy conditions.
- Driving on rough and/or muddy roads.
- Frequent wading.
- Frequent driving at high speeds in high ambient temperatures above 50°C.
- Frequent driving in severe cold weather below -40°C.
- Frequent trailer towing.
- Driving in areas using road salt or other corrosive materials on the driving surface.

Contact a Land Rover Dealer/Authorised Repairer for advice.

## EMISSION CONTROL

Your vehicle is fitted with various items of emission and evaporative control equipment, designed to meet specific territorial requirements. You should be aware that unauthorised replacement, modification or tampering with this equipment by an owner or repair shop, may be unlawful and subject to legal penalties.

In addition, engine settings must not be tampered with. These have been established to ensure that your vehicle complies with stringent exhaust emission regulations. Incorrect engine settings may adversely affect exhaust emissions, engine performance and fuel consumption. They may also cause high temperatures, which will result in damage to the catalytic converter and the vehicle.

## DIESEL PARTICULATE FILTER (DPF)

The Diesel Particulate Filter (DPF) forms part of the emissions reduction system fitted to your vehicle. The DPF will remove a high proportion of the harmful carbon microspheres (soot) before they leave the exhaust. It achieves this by filtering out the particles, which are then stored until they are burnt away and the filter is emptied.

**DPF FULL SEE HANDBOOK** - If this message appears the driver should carry out the DPF regeneration procedure as soon as possible.

**DPF FULL VISIT DEALER** - If this message appears the vehicle should be taken to your Dealer/Authorised Repairer as soon as possible.

## ROAD TESTING DYNAMOMETERS (ROLLING ROADS)

It is essential that any dynamometer testing is carried out only by a qualified person, familiar with the dynamometer testing and safety procedures practised by Land Rover Dealers/Authorised Repairers.

## SAFETY IN THE GARAGE



If the vehicle has been driven recently, do not touch the engine, exhaust and cooling system components until the engine has cooled.



Cooling fans may continue to operate after the engine is turned off. They may also start to operate after the engine is turned off and continue operating for up to 10 minutes.



Never leave the engine running in an unventilated area - exhaust gases are poisonous and extremely dangerous.



Never work or allow any person to place any part of their body beneath a vehicle supported by a jack.



Keep your hands and clothing away from drive belts, pulleys and fans. Some fans may continue to operate after the engine has stopped.



Remove metal wrist bands and jewellery, before working in the engine compartment.



Do not touch electrical leads or components while the engine is running, or with the starter switch turned on.



Do not allow tools or metal parts of the vehicle to make contact with the battery leads or terminals.

## FUEL SYSTEM



Under no circumstances should any part of the fuel system be dismantled or replaced by anyone other than a suitably qualified vehicle technician.



Ensure sparks and naked lights are kept away from the engine compartment.



Wear protective clothing, including, where practicable, gloves made from an impervious material.

## POISONOUS FLUIDS

Fluids used in motor vehicles are poisonous and should not be consumed or brought into contact with open wounds.

For your own safety, always read and obey all instructions printed on labels and containers.

## USED ENGINE OIL

Prolonged contact with engine oil may cause serious skin disorders, including dermatitis and cancer of the skin. Always wash thoroughly after contact.



It is illegal to pollute drains, water courses or soil. Use authorised waste disposal sites to dispose of used oil and toxic chemicals.

## OPENING AND CLOSING THE BONNET



SL1292

### Opening

1. Pull the bonnet release lever, located in the left-hand front footwell.
2. Lift the bonnet safety catch lever, located below the centre point of the bonnet, then raise the bonnet.

### Closing

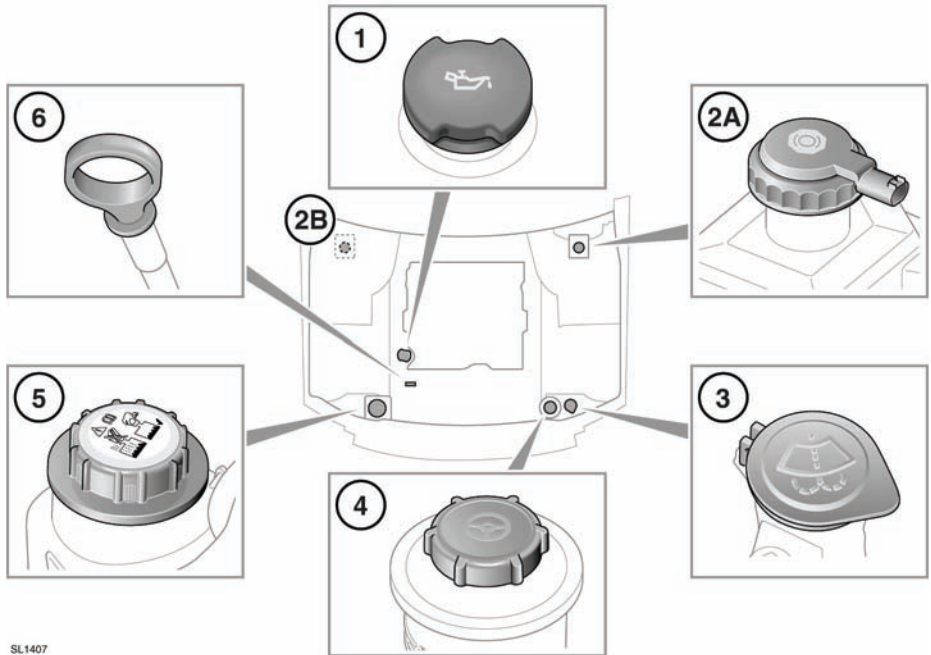


**Do not drive with the bonnet retained by the safety catch alone.**

1. Lower the bonnet until the safety catch engages. Using both hands, press the bonnet down until the catches click.
2. Check that both catches are engaged, by trying to lift the front edge of the bonnet.



## ENGINE COMPARTMENT OVERVIEW V8 DIESEL



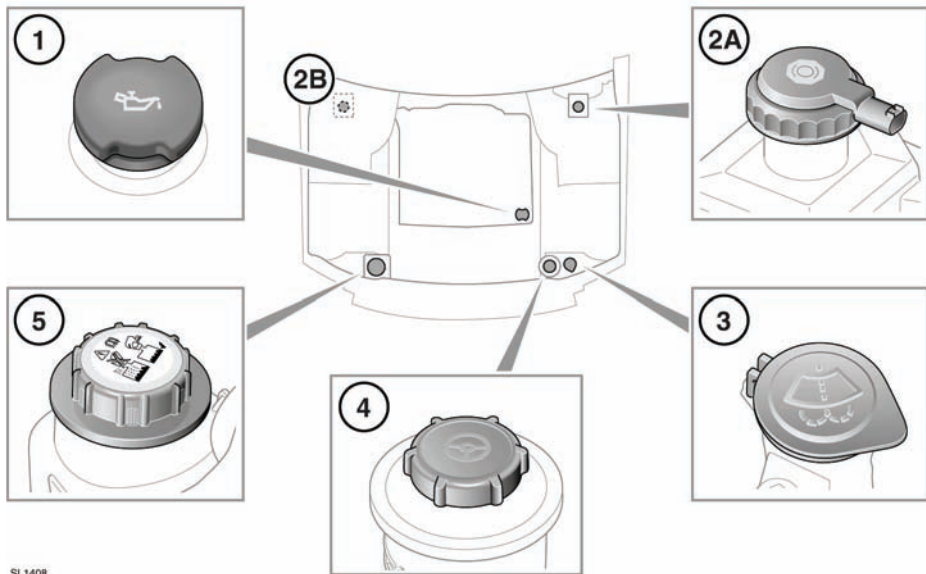
SL1407

1. Engine oil filler cap.
2. Brake fluid reservoir cap:
  - A. Right-hand drive vehicles.
  - B. Left-hand drive vehicles.
3. Windscreen washer fluid filler cap
4. Power steering fluid filler cap.
5. Engine coolant filler cap.
6. Oil level dipstick - not 4.4L V8.



**Do not drive if there is a possibility that leaked fluid will come into contact with a hot surface, such as the exhaust.**

## ENGINE COMPARTMENT OVERVIEW V8 PETROL



SL1408

1. Engine oil filler cap.
2. Brake fluid reservoir cap:
  - A. Right-hand drive vehicles.
  - B. Left-hand drive vehicles.
3. Windscreen washer fluid filler cap.
4. Power steering fluid filler cap.
5. Engine coolant filler cap.



**Do not drive if there is a possibility that leaked fluid will come into contact with a hot surface, such as the exhaust.**

## BLOCKED WASHER JETS



**Do not operate the washer jets during unblocking or adjustment. Windscreen washer fluid may cause irritation to the eyes and skin. Always read and observe the washer fluid manufacturers instructions.**

If a washer jet becomes blocked, use a thin strand of wire to unblock the jet by inserting the wire into the jet. Ensure that the wire is completely removed after unblocking. The washer jet position may also be adjusted by inserting the point of a needle into the jet and gently repositioning it.

The rear screen jets located in the wiper arm are not adjustable.

## CHANGING A BULB



**If the lighting has just been switched off, give the bulbs time to cool. Handling them when hot may cause personal injury.**



Always replace bulbs with the correct type and specification. If you are in any doubt contact your Land Rover Dealer/Authorised Repairer for advice. See **BULB SPECIFICATION CHART, 224.**

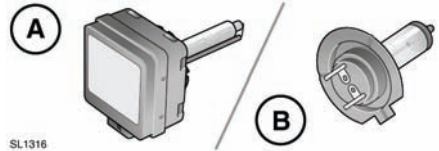


Before attempting a bulb change, ensure that the ignition and affected lamp are turned off.

**Note:** In certain territories it is a legal requirement to carry spare bulbs. A replacement bulb kit is available as an approved accessory from your dealer.

**Note:** After replacing a headlamp bulb, headlamps alignment should be checked with the appropriate equipment.

## HEADLAMP - BULB IDENTIFICATION



- A. Xenon bulb.
- B. Halogen bulb.

## HALOGEN BULBS

Dependent on vehicle specification, halogen bulbs may be used for high beam, low beam, and front fog lamps.



Take care not to touch this type of bulb with your fingers; always use a cloth to handle them. If necessary, clean the bulb with methylated spirits to remove fingerprints.

## XENON LAMPS



**Replacement or maintenance of Xenon lamps should be carried out only by suitably qualified personnel.**



**High voltage is required to ignite the gas and metal vapour which are used to power Xenon lamps. Contact with this voltage can cause serious injury.**



**Xenon lamp units operate at a very high temperature. Ensure that the lamp units have cooled before attempting to touch them.**

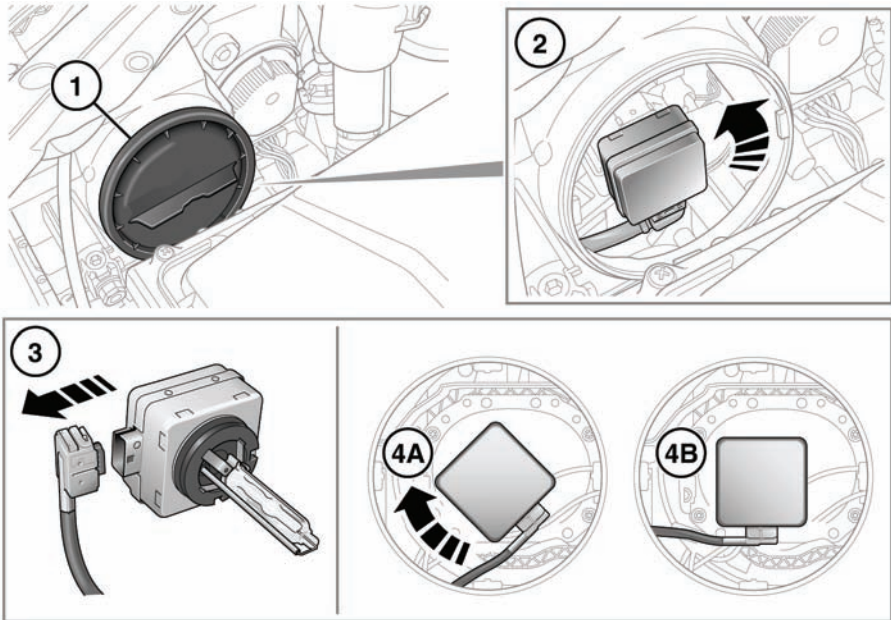


**Xenon lamp units contain Mercury which is highly toxic, and can be extremely harmful.**



Seek advice about the correct disposal of Xenon lamp units from a Land Rover Dealer/Authorised Repairer, or your local authority.

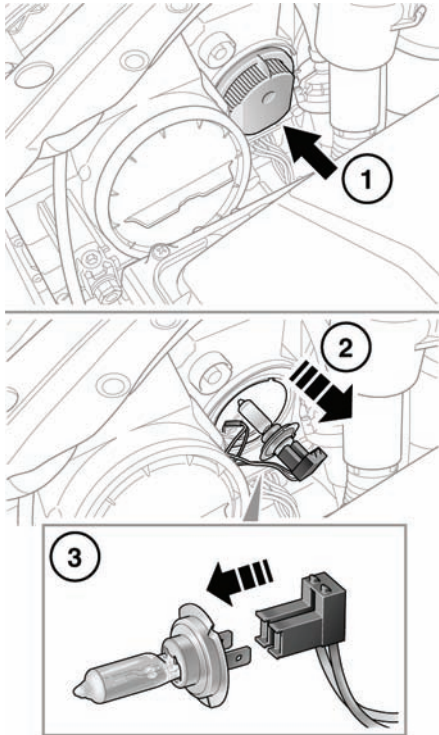
## XENON HEADLAMP BULB



SL1409

1. Twist and lift off the cap.
2. Rotate the bulb unit counter clockwise and carefully withdraw the unit.
3. Pull off the electrical connector.
4. Connect the new bulb unit.
  - A. Carefully insert into the headlamp unit as indicated.
  - B. Twist clockwise to lock the bulb in place. Replace the cap.

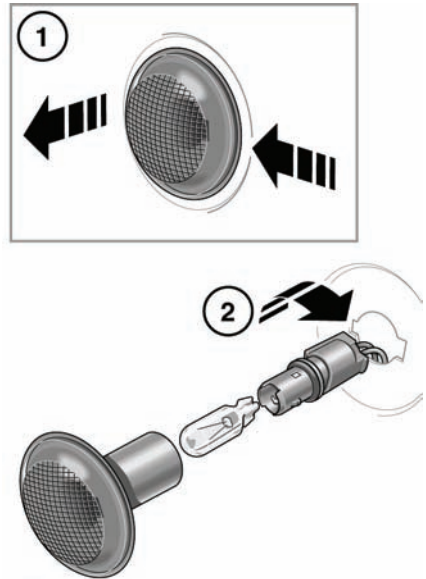
## HALOGEN HEADLAMP BULB



SL1412

1. Twist and lift off the cap.
2. Pull out the holder and bulb.
3. Release the bulb from the holder.
4. Insert the new bulb and repeat the above procedure in reverse order.

## SIDE REPEATER LAMP BULB

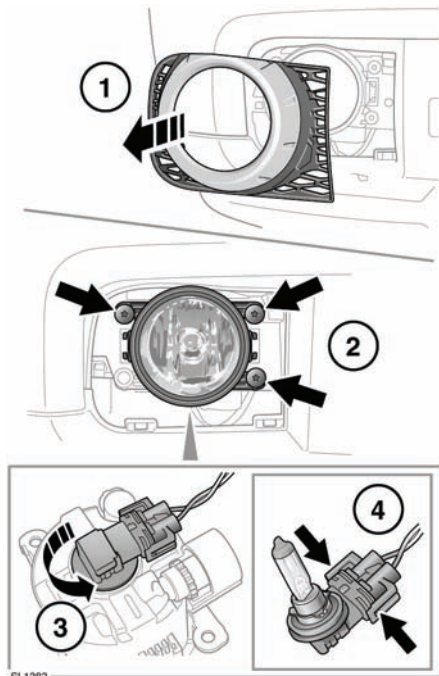


SL1381

1. Push the lens unit firmly towards the rear of the vehicle and prise out the leading edge. Release the rearward pressure, allowing the lens unit to be released from its fixing point.
2. Twist to release the bulb holder from the lens unit. Pull the bulb from its socket.

Insert the new bulb using the previous process in reverse order.

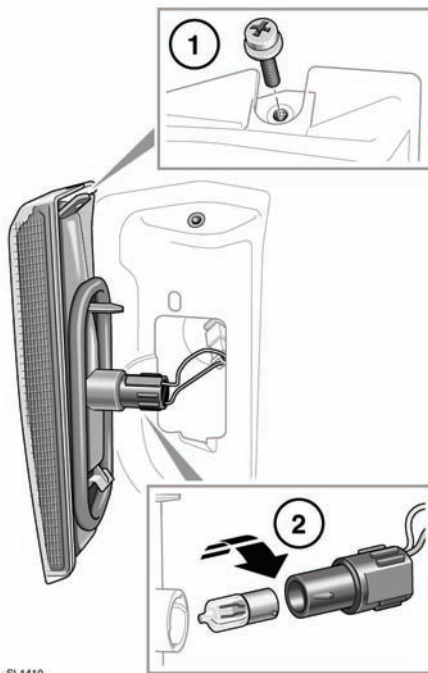
## FRONT FOG LAMP BULB



1. Insert a screwdriver through the lower part of the headlamp grille then lift and release the bottom securing tabs. Pull the grille forward and remove.
2. Undo the three retaining screws, and remove the lamp unit.
3. Rotate the bulb holder counter clockwise and remove from the lamp unit.
4. Press the two clips together and remove the electrical connector.

Insert the new bulb using the previous process in reverse order.

## REVERSING LAMP BULB



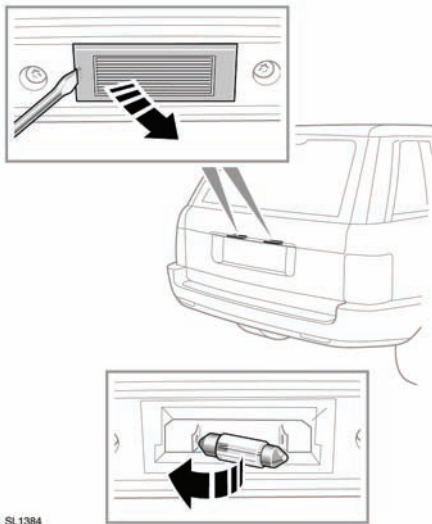
The lamps are located either side of the number plate.

1. With the tailgate open, remove the screw from the unit. Pull the unit carefully away from the vehicle.
2. Twist and pull the bulb holder from the lamp unit. Pull the bulb from the electrical connector.

Ensure that the lamp unit is placed face down on a flat surface covered in soft material to prevent damage.

Insert the new bulb using the previous process in reverse order.

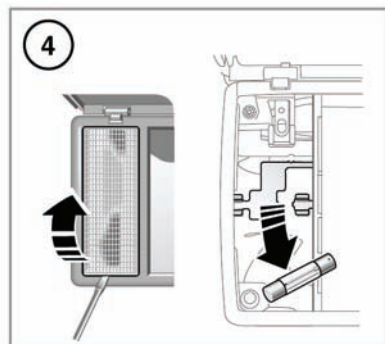
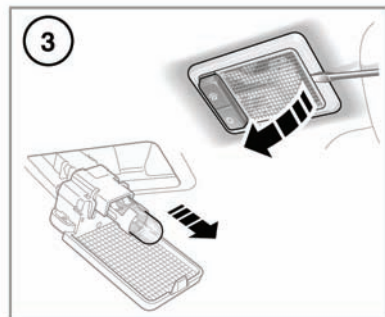
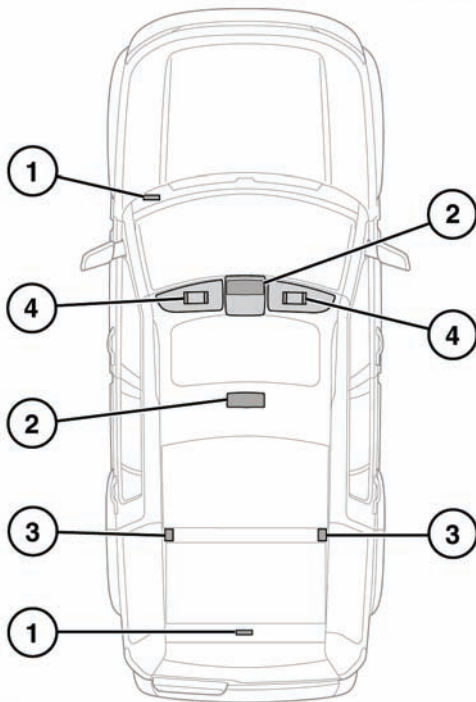
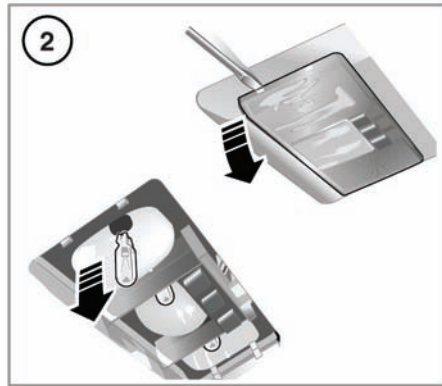
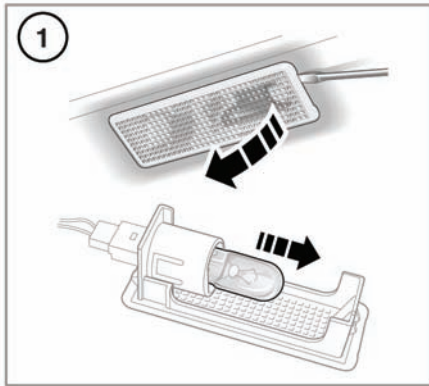
## LICENCE PLATE LAMP BULB



Follow the steps illustrated. Insert a new bulb and refit the components.



## INTERIOR LAMPS - BULB CHANGING



SL1149



Follow the steps illustrated. Insert a new bulb and refit the components.

1. Footwell and puddle lamps.
2. Courtesy lamp and map lamps.
3. Rear courtesy lamps.
4. Vanity mirror lamps.

## SUNROOF RESET

If the battery is disconnected or the power supply is interrupted while the sunroof is partially open, it will need to be recalibrated.

When the battery is reconnected or the power supply is restored, recalibrate the sunroof as follows:

1. Switch the ignition on.
2. With the sunroof closed, press and release the front of the switch. The sunroof will move to the tilt position.
3. Press the front of the sunroof switch and hold for 20 seconds.

The sunroof can now be operated as normal.

## SERVICE DATA RECORDING

Service data recorders in your vehicle are capable of collecting and storing diagnostic information about your vehicle. This potentially includes information about the performance or status of various systems and modules in the vehicle such as engine, throttle, steering or brakes.

In order to properly diagnose and service your vehicle, Land Rover and service and repair facilities may access vehicle diagnostic information through a direct connection to your vehicle.

## CLEANING THE EXTERIOR

- ❗ Remove any heavy deposits of mud and dirt with a hose before washing the vehicle.
- ❗ Never aim a hose water jet directly at the engine air intake, heater air intakes, body seals (doors, sunroof, windows etc.) or at any components which may be damaged (lights, mirrors, cameras, exterior trim etc.).
- ❗ Do not use a power wash system in the engine bay area.
- ❗ Following cleaning of the vehicle exterior (particularly with a pressure washer), it is recommended that the vehicle is taken for a short drive to dry out the brakes.
- ❗ Substances which are corrosive, such as bird droppings and tree resin, can damage the vehicle's paintwork and should be removed as soon as possible.
- ❗ Use only cleaning products approved for use on vehicles.
- ❗ Camera lenses must be treated with care. Clean with a low pressure hose and wipe with a damp cloth.

**Note:** Do not apply polish to any unpainted areas of the bumper mouldings. It will become ingrained in the textured finish.

## USING WHITE SPIRIT

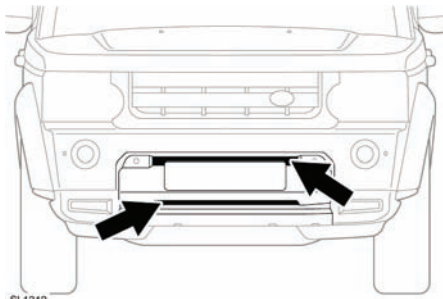
Stubborn stains such as tar spots and grease may require the use of white spirit. After use, ensure the area is washed with warm soapy water to remove all traces of the spirit.

## UNDERBODY MAINTENANCE

Regularly flush the underbody with plain water, and pay particular attention to areas where mud and debris collect.

If damage or corrosion are detected, have the vehicle checked by a Land Rover Dealer/Authorised Repairer as soon as possible.

### CLEANING AFTER OFF-ROAD DRIVING



- ⚠ Ensure that the areas around air intakes and the front grille are clean and clear of debris. Pay particular attention to the lower grille and radiator. Failure to do so may cause the engine to overheat, leading to severe engine damage.

Ensure that the vehicle underside is cleaned as soon as possible after driving off-road.

### PAINT DAMAGE

Minor chips and scratches can be touched up using materials available from a Land Rover Dealer/Authorised Repairer. Your VIN code will give your supplier the colour reference.

### CLEANING THE INTERIOR



Some cleaning products contain substances that are harmful and can cause health problems if used incorrectly and may cause damage to the vehicle interior. Ensure that you read the manufacturer's instructions carefully.

### PLASTIC AND CLOTH



Do not polish the instrument panel. Polished surfaces are reflective, and may interfere with the drivers view.

Clean plastic or cloth faced surfaces with warm water and non-detergent soap. Then wipe clean with a soft cloth.

### LEATHER



Only use cleaning products specifically designed for use on leather. Do not use chemical, alcohol, or abrasive materials, as they will cause rapid deterioration of the leather. The use of products which are not approved will invalidate your warranty.



If you are in any doubt as to which products to use, consult your Land Rover Dealer/Approved Repairer.

Leather should be cleaned and protected at least every six months using Land Rover leather cleaner BAC500490.

To prevent ingrained dirt and staining, inspect the seat upholstery regularly and clean every one to two months as follows:

1. Wipe off fine dust from the seat surfaces using a clean, damp, non-coloured cloth. Change frequently to a clean area of cloth to avoid abrasive action on the leather surface. Avoid over wetting the leather.

2. If this is not sufficient, use a cloth which has been dampened with warm soapy water and then wrung out. Use only mild non-caustic soap.
3. Use Land Rover leather cleaner for heavily soiled areas. Dry off and rub the with a clean soft cloth, changing surfaces regularly.

Use Land Rover leather cleaner several times a year to maintain the leather's suppleness and appearance. The cleaner will nourish and moisturise and help to improve the surface protection film against dust and substances.

- Dark clothing may stain leather seats just like other upholstery products.
- Sharp objects such as belts, zippers, rivets etc can leave permanent scratches and scratch marks on the leather surface.
- Unless spillages such as tea, coffee or ink are washed away immediately, permanent staining may have to be accepted.
- Do not use a cleaning product that is not specifically for use in a vehicle. Such products may give an initial impressive appearance but their use will lead to rapid deterioration of the leather and will invalidate the warranty.

If a valet service is used, ensure that the specialist concerned is aware of, and follows, these instructions precisely.

**Note:** *Some materials/fabrics are prone to dye transfer, which can cause unsightly discolouration of lighter coloured leathers. Affected areas should be cleaned and re-protected as soon as possible.*

## SEAT BELTS



**Do not allow any water, cleaning products, or fabric from cloths to enter the seat belt mechanism. Any substance which enters the mechanism may affect the performance of the seat belt in an impact.**

Extend the seat belts fully, then use warm water and a non-detergent soap to clean. Allow the seat belts to dry naturally whilst fully extended.

**Note:** *When cleaning the seat belt, take the opportunity to examine the webbing for damage/wear. Any wear or damage should be reported to, and rectified by, a Land Rover Dealer/Approved Repairer.*

## AIRBAG MODULE COVERS



**Airbag covers should be cleaned using only a slightly dampened cloth, and a small amount of upholstery cleaner.**



**Do not allow the airbag covers, or surrounding areas, to become contaminated with liquids. Any substance which enters the mechanism can prevent correct deployment of an airbag during an impact.**

## INSTRUMENT PANEL, TOUCH SCREEN AND AUDIO SYSTEM

- Clean with a lightly moistened cloth.
- Do not use chemical agents or domestic cleaners.
- Do not allow sharp, hard or abrasive objects to make contact with screens.
- Avoid exposing screens to direct sunlight for long periods.

- To prevent errors occurring, ensure that only one finger at a time is in contact with the touch screen.
- Do not use excessive pressure.

### WIPER BLADE REPLACEMENT

Fit only replacement wiper blades that are identical to the original specification.

**Front wiper blade:** The blade is locked in position by a locking tab on the wiper arm. Push the tab to unlock. Fitting a new blade is a reversal of the removal process.<sup>4</sup>

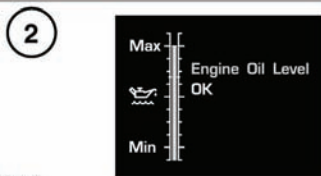
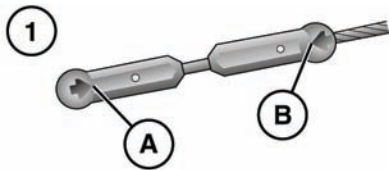
**Rear wiper blade:** The blade is inaccessible in its parked position. Remove as follows;

1. Operate the rear wiper.
2. When the blade is in a near vertical position, open the upper tailgate. The wiper will stop.
3. Turn the ignition off.
4. Lower the upper tailgate and lift the wiper arm away from the glass.
5. Pivot the blade assembly away from the arm.
6. Press the tab (arrowed in illustration) to release the blade assembly. Slide it off the end of the wiper arm. Carefully lower the arm to the glass.

Reverse the procedure to fit the new blade assembly. When the upper tailgate is closed and ignition is turned on, the rear wiper will return to the parked position.

## ENGINE OIL CHECK

- ❗ Check the engine oil weekly. If any significant or sudden drop in oil level is noted, seek qualified assistance.
- ❗ If the message **OIL PRESSURE LOW** is displayed, stop the engine as soon as it is safe to do so and seek qualified assistance. Do not start the engine until the cause has been rectified.



SL1392

1. 3.6L V8 diesel engine dipstick
  - A. Lower mark.
  - B. Upper mark.
2. Petrol engines and 4.4L diesel engine oil level display.

## OIL CHECK PREPARATION

Prior to checking the oil level ensure that:

- The vehicle is on level ground.
- The engine oil is cold (3.6L diesel engine only).
- The engine oil is hot and at working temperature (petrol engines and 4.4L diesel engine only).

- The engine has been switched off for 15 minutes to allow the oil to drain back into the sump. Do not start the engine. An accurate check will not be possible until the oil level has stabilised.

## 3.6L DIESEL ENGINE

The oil level can then be checked as follows:

1. Withdraw the dipstick and wipe the blade clean with a lint free cloth.
2. Fully re-insert the dipstick and withdraw again to check the oil level. Never allow the oil level to fall below the lower mark or notch on the dipstick.

As a general guide, if the level on the dipstick:

- Is nearer to the upper mark, add no oil.
- Is nearer to the lower mark, add half a litre (one pint) of oil.
- Is at or below the lower mark, add 1 litre (1.75 pints) of oil and re-check the level after a further 5 minutes.

## PETROL ENGINES AND 4.4L DIESEL ENGINE

The oil level can then be checked as follows:

1. Switch on the ignition (do not start the engine).
2. Ensure Park (P) is selected.
3. Select the **Service menu** using the driver information menu control.
4. Select **Oil level display** from the Service menu. The current oil level status and topping-up advice is displayed in the instrument panel.
5. Top-up as instructed

Messages to the right of the gauge advise of any action you may need to take.

## Fluid level checks

If the oil level is within the required operating range, the message **Engine Oil Level OK** will be displayed. Do not add any additional oil to the engine.

If the oil level is below the required operating range, a message advising you how much oil to add will be displayed (e.g. **Add 0.5 Litre**). Add the recommended quantity of oil.

If the message **Engine Oil Level Overfilled** is displayed, seek qualified assistance immediately. Do not drive the vehicle as this will cause serious damage to the engine.

If the message **Engine Oil Level Underfilled** is displayed, add 2 litres (3.5 pints) of oil, then recheck the level after 10 minutes.

If the message **Engine Oil Level Not Available** is displayed, the oil level is stabilising. Switch off the ignition, wait 10 minutes, then recheck the oil level display.

If the warning message **ENGINE OIL LEVEL MONITOR SYSTEM FAULT** is displayed, seek qualified assistance.

### TOPPING UP THE OIL

- ❗ Your vehicle warranty may be invalidated if damage is caused by using oil that does not meet the required specification.
- ❗ Failure to use an oil that meets the required specification could cause excessive engine wear, a build up of sludge and deposits, and increase pollution. It could also lead to engine failure.
- ❗ Overfilling with oil could result in severe engine damage. Oil should be added in small quantities and the level re-checked to ensure that the engine is not overfilled.

1. Remove the oil filler cap.

2. Add oil as determined in the oil check process.
3. Clean up any oil spilled during topping-up.
4. Check the oil level again after 10 minutes (Petrol engines) or after 5 minutes (Diesel engines).

It is essential to use the correct specification oil for the conditions in which the vehicle is to be operated.

**Note:** The approximate quantity of oil required to raise the level from **MIN** to **MAX** on the dipstick is 2 litres (3.5 pints) for all models.

### ENGINE OIL SPECIFICATION

It is important that the correct oil specification is used. Vehicles fitted with a diesel particulate filter (DPF) must use the specified oils otherwise significant engine damage will occur. Specified oils ensure that the life of the DPF is maximised.

When a new vehicle is sold into markets where the diesel fuel has a high level of sulphur content, a DPF is not fitted and alternative oils are specified. See **SULPHUR CONTENT, 193**. Use of incorrect oils will result in serious engine damage.



Land Rover recommends Castrol oils.

See **LUBRICANTS AND FLUIDS, 219**.

## COOLANT LEVEL CHECK

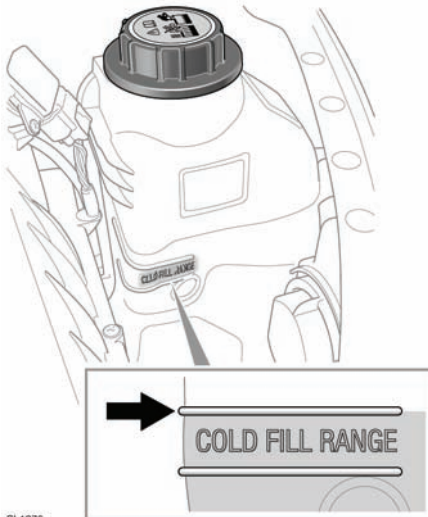


Running the engine without coolant will cause serious engine damage.

The coolant level in the expansion tank should be checked at least weekly (more frequently in high mileage or arduous operating conditions). Always check the level when the system is cold.

Ensure the coolant level remains between the COLD FILL RANGE indicator marks located on the side of the expansion tank. Ignore any coolant visible in the top section of the tank.

If the level has dropped suddenly, or by a large amount, arrange for the vehicle to be examined by a qualified technician as soon as possible.



SL1376

## TOPPING UP THE COOLANT



Never remove the filler cap when the engine is hot - escaping steam or scalding water could cause serious personal injury.



Avoid spilling antifreeze onto a hot engine - a fire may result.



Unscrew the filler cap slowly, allowing the pressure to escape before removing completely.



When travelling in territories where the water supply contains salt, always ensure you carry a supply of fresh (rain or distilled) water. Topping up with salt water will cause serious engine damage.

Top-up to the upper level indicator mark of the COLD FILL RANGE located on the side of the expansion tank. Use only a 50% mix of water and Castrol SF antifreeze.

In an emergency - and only if the approved antifreeze is unavailable - top-up the cooling system with clean water, but be aware of the resultant reduction in frost protection. Do not top-up or refill with conventional antifreeze formulations. If in doubt consult a qualified technician.

Ensure the cap is tightened fully after top-up is completed by turning the cap until the ratchet cap clicks.

## ANTIFREEZE



Antifreeze is poisonous and can be fatal if swallowed - keep containers sealed and out of the reach of children. If accidental consumption is suspected, seek medical attention immediately.



If the fluid comes into contact with the skin or eyes, rinse immediately with plenty of water.



The use of non-approved antifreeze will have an adverse effect on the engine cooling system and therefore engine durability.

## Fluid level checks



Antifreeze will damage painted surfaces; soak up any spillage with an absorbent cloth immediately and wash the area with a mixture of car shampoo and water.

Antifreeze contains important corrosion inhibitors. The antifreeze content of the coolant must be maintained at  $50\% \pm 5\%$  all year round (not just in cold conditions). To ensure that the anti-corrosion properties of the coolant are retained, the antifreeze content should be checked once a year and completely renewed every ten years, regardless of distance travelled. Failure to do so may cause corrosion of the radiator and engine components.

The specific gravity of a 50% antifreeze solution at  $20^{\circ}\text{C}$  ( $68^{\circ}\text{F}$ ) is 1.068 and protects against frost down to  $-40^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$ ).

### BRAKE FLUID CHECK



**Seek qualified assistance immediately if brake pedal travel is unusually long or if there is any significant loss of brake fluid. Driving under such conditions could result in extended stopping distances or complete brake failure.**



**Brake fluid is highly toxic - keep containers sealed and out of the reach of children. If accidental consumption of fluid is suspected, seek medical attention immediately.**



**If the fluid comes into contact with the skin or eyes, rinse immediately with plenty of water.**



**Take care not to spill the fluid onto a hot engine - a fire may result.**



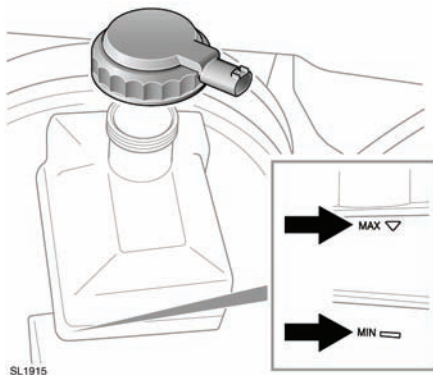
**Do not drive the vehicle with the fluid level below the MIN mark.**



If the quantity of fluid in the brake reservoir drops below the recommended level, a red warning lamp in the instrument pack will illuminate.

**Note:** *If the warning lamp illuminates while the vehicle is being driven, stop the vehicle as soon as safety permits by gently applying the brakes. Check and top-up the fluid level if necessary.*

With the vehicle on level ground, check the fluid level at least every week (more frequently in high mileage or arduous operating conditions).



Look at the fluid level through the side of the transparent reservoir without removing the filler cap.

The brake fluid must be between the **MAX** and **MIN** marks.

### TOPPING UP THE BRAKE FLUID



Brake fluid will damage painted surfaces. Soak up any spillage with an absorbent cloth immediately and wash the area with a mixture of car shampoo and water.



- ❗ Only use new fluid from an airtight container (fluid from opened containers or fluid previously bled from the system will have absorbed moisture, which will adversely affect performance, and must not be used).

1. Clean the filler cap before removing to prevent dirt from entering the reservoir.
2. Remove the filler cap.
3. Top-up the reservoir to at least the minimum mark using Shell DOT4 ESL brake fluid. If Shell DOT4 ESL is not available, a low viscosity DOT4 brake fluid that meets ISO 4925 class 6 and Land Rover LRES22BF03 requirements may be used.

- ❗ Do not top-up the brake fluid to the maximum mark unless the brake pads have been replaced. If unsure seek qualified assistance.

4. Replace the cap and reservoir cover.

## POWER STEERING FLUID CHECK

- ⚠ **Power steering fluid is highly toxic. Keep containers sealed and out of reach of children. If accidental consumption of fluid is suspected, seek medical attention immediately.**

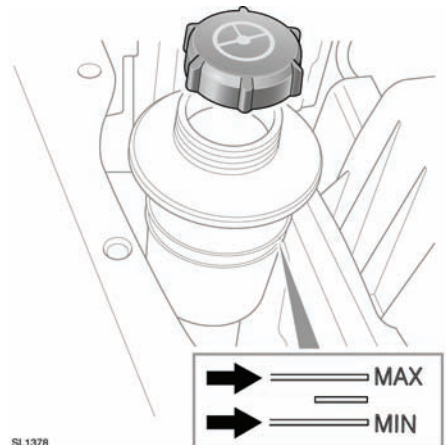
- ⚠ **If the fluid comes into contact with the skin or eyes, rinse immediately with plenty of water.**

- ❗ Do not start the engine if the fluid level has dropped below the **MIN** mark. Severe damage to the steering pump could result.

- ❗ Seek qualified assistance immediately if there is a noticeable drop in the fluid level. Severe damage to the steering pump could result.

- ❗ If fluid loss is slow, the reservoir may be topped-up to the upper level mark to enable the vehicle to be driven to a repair facility for examination. However, it is recommended that you seek qualified assistance before driving the vehicle.

Check and top-up the fluid with the vehicle on level ground, engine switched off, and the system cold. Ensure that the steering wheel is not turned after stopping the engine.



SL1378

The level of fluid can be seen through the translucent body of the reservoir.

The fluid level should be between the **MIN** and the **MAX** marks.

## TOPPING UP THE STEERING FLUID

- ❗ Power steering fluid will damage painted surfaces. Soak up any spillage with an absorbent cloth immediately and wash the area with a mixture of car shampoo and water.

## Fluid level checks

❗ Do not fill the reservoir above the **MAX** mark.

1. Clean the filler cap before removing to prevent dirt from entering the reservoir.
2. Remove filler cap.
3. Using Texaco Cold Climate PSF fluid 14315, top up the reservoir until the fluid level is between the **MIN** and **MAX** marks.
4. Replace filler cap.

### WASHER FLUID CHECK

⚠ Some screen washer products are inflammable, particularly if high or undiluted concentrations are exposed to sparking. Do not allow screen washer fluid to come into contact with naked flames or sources of ignition.

⚠ If the vehicle is operated in temperatures below 4°C (40°F), use a washer fluid with frost protection. In cold weather, failure to use a washer fluid with frost protection, could result in impaired vision and increase the risk of a vehicle crash.

❗ Do not use an antifreeze or vinegar/water solution in the washer reservoir - antifreeze will damage painted surfaces, while vinegar can damage the windscreen washer pump.

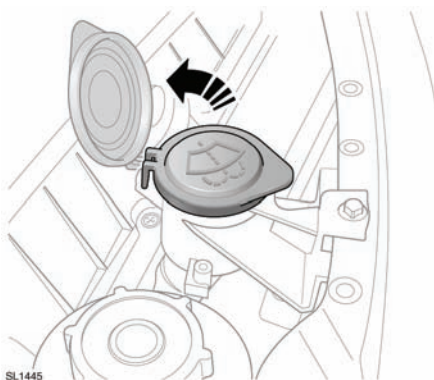
❗ Body panels may suffer discolouration as a result of screen washer fluid spillage. Take care to avoid spillage, particularly if an undiluted or high concentration is being used. If spillage occurs, wash the affected area immediately with water.

### TOPPING UP THE WASHER FLUID

The washer reservoir supplies both front and rear screen washer jets and headlamp washer jets.

Check and top-up the reservoir level at least every week. Always top-up with screen washer fluid to prevent freezing.

Operate the washer switches periodically to check that the nozzles are clear and properly directed.



SL1445

1. Clean the filler cap before removing to prevent dirt from entering the reservoir.
2. Remove filler cap.
3. Top-up the reservoir until the fluid is visible in the filler neck.
4. Replace filler cap.

## ENGINE DATA

	3.6L Diesel	4.4L Diesel	V8 Petrol
Capacity	3 628 cm <sup>3</sup>	4 367 cm <sup>3</sup>	4 999 cm <sup>3</sup>
Firing order	1-5-4-2-6-3-7-8	1-5-4-2-6-3-7-8	1-5-4-2-6-3-7-8
Bore	81.0 mm	84.0 mm	92.5 mm
Stroke	88.0 mm	98.5 mm	93 mm
Number of cylinders	8	8	8
Compression ratio	17.3:1	16:1	NA - 11.5:1 SC - 9.5:1

## LUBRICANTS AND FLUIDS

Part	Variant	Specification
Engine oil	3.6L diesel engine with DPF	SAE 5W-30 oil meeting specification WSS-M2C913-B.
	3.6L diesel engine without DPF	SAE 5W-30 oil meeting specification WSS-M2C921-A.
	4.4L diesel engine with DPF	SAE 5W-30 oil meeting specification WSS-M2C934-B. Land Rover recommends Castrol SLX Professional Powerflow C1 5W-30. <b>Note:</b> In an emergency only, topping up with WSS-M2C913-B to a maximum of 1 litre is allowed.
	4.4L diesel engine without DPF	SAE 5W-30 oil meeting specification WSS-M2C913-B.
	4.4L diesel engine without DPF in high sulphur fuel market.	Use SAE 5W-30 oil meeting specification WSS-M2C921-A to retain the standard service schedule periods. Use of SAE 5W-30 oil meeting specification WSS-M2C913-B will require more frequent servicing. See the Service Portfolio.
	Petrol engines	SAE 5W-20 meeting specification WSS-M2C925-A only. Land Rover recommends Castrol SLX Professional 5W-20. Japan only - ILSAC GF4 and API SM.
Main gearbox oil	Automatic transmission	Shell ATF M1375.4.

## Technical specifications

Part	Variant	Specification
Transfer gearbox oil	All vehicles	Shell TF 0753.
Front differential oil	All vehicles	Castrol SAF XO.
Rear differential oil	Non-locking	Castrol SAF XO.
Rear differential oil	Electronic Locking	Castrol SAF Carbon Mod Plus.
Power steering fluid	All vehicles	Texaco Cold Climate PSF 14315.
Brake fluid	All vehicles	Shell DOT4 ESL. If unavailable, use a low viscosity DOT4 brake fluid that meets ISO 4925 class 6 requirements.
Screen washer	All vehicles	Screen wash with frost protection.
Coolant	All vehicles	50% mixture of Castrol SF antifreeze and water.

## CAPACITIES

Item	Variant	Capacity
Fuel tank (usable)	Petrol	101 litres (22.2 gallons)
	Diesel	97 l (21.3 gallons)
Engine oil refill and filter change	Diesel	9.0 litres
	V8 NA Petrol	8.0 litres
	V8 SC Petrol	8.0 litres
Front differential	Refill	0.75 litres
	Dry fill	0.8 litres
Rear differential -Non-locking	Refill	1.14 litres
	Dry fill	1.2 litres
Rear differential - Electronic locking	Refill	1.55 litres
	Dry fill	1.6 litres
Washer reservoir	All vehicles	6.3 litres
Cooling system (refill)	Diesel	14 litres
	V8 NA Petrol	15 litres
	V8 SC Petrol	16 litres

The quoted capacities are approximate and provided as a guide only. All oil levels must be checked using the dipstick, level plugs or driver information module, as applicable.

## WEIGHTS

Variant	Vehicle weight from <sup>1</sup>	Gross Vehicle Weight (GVW) <sup>2</sup>	Gross Train Weight <sup>3</sup> (off-road)
Diesel	2710 kg 5975 lbs	3200 kg 7055 lbs	6700 kg (4200 kg) 14771 lbs (9259 lbs)
Petrol	2590 kg 5710 lbs	3200 kg 7055 lbs	6700 kg (4200 kg) 14771 lbs (9259 lbs)

<sup>1</sup> Including full fuel tank.

<sup>2</sup> The maximum permissible weight of the vehicle including passengers and load.

<sup>3</sup> The maximum permissible weight of the vehicle and braked trailer including their respective loads.

Variant	Maximum front axle load <sup>1</sup>	Maximum rear axle load <sup>1</sup>	Maximum roof rack load <sup>2</sup> (off-road)
All vehicles	1530 kg 3373 lbs	1850 kg 4079 lbs	100 kg (50 kg) 220 lbs (110 lbs)

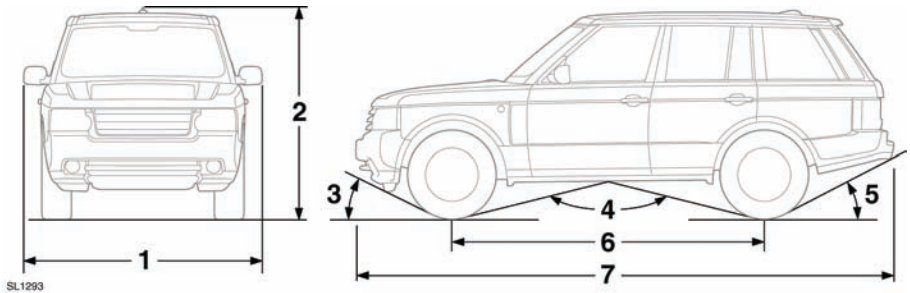
<sup>1</sup> The front and rear axle maximum loads can not be reached simultaneously as this will exceed the GVW limit.

<sup>2</sup> This figure includes the weight of the roof rack.

## WHEEL ALIGNMENT

Variant	Front toe	Rear toe
Diesel	0° 9' ± 0° 12'	0° 12' ± 0° 12'
NA Petrol	0°	0° 18' ± 0° 12'
SC Petrol	0° 9' ± 0° 12'	0° 12' ± 0° 12'

## DIMENSIONS



Item	Description	mm (inches)	Degrees
1	Width (including mirrors)	2216 (87.2)	-
2	Overall height - standard setting	1878 (73.9)	-
3	Approach angle (at EEC kerb weight)	Standard setting Off-road setting	29° 34°
4	Ramp breakover angle (at EEC kerb weight)	Standard setting Off-road setting	131° 120°
5	Departure angle without tow hitch (at EEC kerb weight plus full size spare tyre)	Standard setting Off-road setting	24.2° 26.6°
5	Departure angle with adjustable tow hitch (at EEC kerb weight)	Standard setting Off-road setting	13.6° 16.0°
5	Departure angle with fixed height tow hitch (at EEC kerb weight)	Standard setting Off-road setting	15.2° 17.4°
6	Wheelbase	2885 (113.6)	-
7	Overall length	4838 (190.5)	-
-	Track - front	1605 (63.2)	-
-	Track - rear	1612.5 (63.5)	-
-	Wading depth	700 (27.6)	-
-	Minimum ground clearance at off-road setting	283 (11.1)	-
-	Turning circle (kerb to kerb)	12m (39.4ft)	-
-	Brake pedal free travel	No adjustable free travel	

## BULB SPECIFICATION CHART



Before attempting to replace a bulb, ensure that both the affected lamp and the vehicle's ignition, are turned off. If the circuit remains live, a short circuit can occur which may damage the vehicle's electrical system.

**Note:** LED bulbs can be replaced only by a Land Rover Dealer/Authorised Repairer.

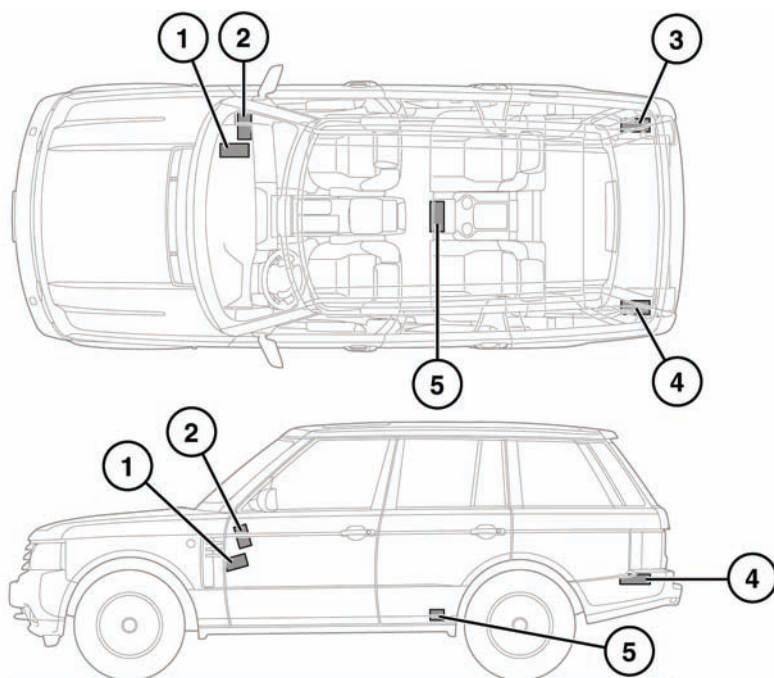
Lamp	Specification	Power (Watts)
Halogen headlamp	H7	55
Xenon headlamp (low and high beam)	D3S	55
Static bending lamps	LED	-
Front side repeater lamps	W5W	5
Front direction indicators	LED	-
Rear direction indicators	LED	-
Front fog lamps	H11	55
Reverse lamps	H6	6
Rear fog lamps	LED	-
Stop/tail lamps	LED	-
Number plate lamps	W5W	5
Puddle lamps	W5W	5
All Interior lamps	W6W	6
Glove box lamp	W5W	5
Vanity mirror lamp		1.2

## WHEELS AND TYRES

Wheel size	Tyre size	Load Index
8.0J x 19	255/55 R19 V - All terrain tyre	111
8.0J x 19	255/65 R19H Goodyear Ultra Grip - winter tyre	111
8.5J x 20	255/50 R20 Y - All terrain and all terrain sport tyre	109
8.5J x 20	255/50 R20H Continental Cross Contact Winter	109
5.5 x 19	T175/80 R19 M - Temporary spare tyre	122



### SMART KEY SYSTEM TRANSMITTERS



SL1193

1. Keyless start module.
2. Cabin front transmitter.
3. Right-hand side loadspace transmitter.
4. Left-hand side loadspace transmitter.
5. Cabin rear transmitter.



**Any person fitted with an implanted medical device should ensure that the device is kept at a distance of at least 22 cm (8.7 inches) away from any transmitter mounted in the vehicle. This is to avoid any possibility of interference between the system and the device.**

## BATTERY WARNING SYMBOLS



Do not allow any naked flames, or other sources of ignition near the battery as the battery may emit explosive gasses.



Ensure that when working near, or handling the battery, suitable eye protection is worn. This will reduce the risk of eye damage caused by acid splashes.



To prevent risk of injury, do not allow children near the battery.



Be aware that the battery may emit explosive gasses.



The battery contains acid which is extremely corrosive, and toxic.

## BATTERY CARE



Do not allow the battery electrolyte (fluid) come into contact with your skin or eyes. It is both corrosive and toxic, and the resulting injuries can be severe. If any electrolyte does come into contact with your skin or eyes, immediately rinse the affected area with clean, cold water. Immediate medical advice will be required.



If battery electrolyte comes into contact with your skin and/or clothes you should remove the affected clothing and flush the skin with copious amounts of water. Seek medical assistance immediately.



If battery electrolyte comes into contact with your eyes, flush with copious amounts of clean cold water. Seek medical assistance immediately, and continue to flush with water.



If swallowed, battery electrolyte can be fatal. If electrolyte is swallowed seek medical assistance immediately.



Do not connect any 12 volt equipment directly to the battery terminals. Doing so may cause a spark, which can result in an explosion.



The cell plugs and vent pipe must be in place at all times when the battery is connected to the vehicle. Ensure that the vent pipe is clear of obstructions and not kinked. Failure to do so may cause a pressure build up in the battery, resulting in an explosion.



Do not expose the battery to a naked flame or spark as the battery produces explosive, flammable gas.



Never jump start (boost) or charge, a frozen battery. Doing so can result in an explosion.



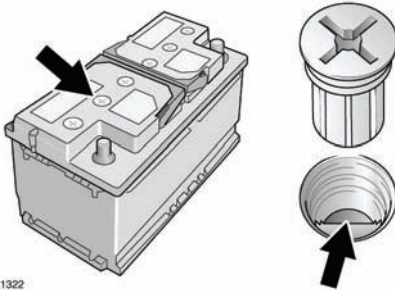
Remove all metal jewellery before working on, or near, the battery, and never allow metal objects or vehicle components to come into contact with the battery terminals. Metal objects can cause sparks, and/or short circuits, resulting in an explosion.



Do not allow the battery posts or terminals to come into contact with your skin. They contain lead, and lead compounds which are toxic. Always wash your hands thoroughly after handling the battery.

Your vehicle is fitted with a low maintenance battery.

In hot climates more frequent checks of the battery electrolyte level and condition are required. If necessary, the battery cells can be topped up using distilled water.



Unscrew the six cell plugs and store carefully. Check that the surface of the liquid (electrolyte) is level with the plastic level indicator. If necessary, top up with distilled water, but never overfill. Refit the six cell plugs.

## STARTING A DISABLED VEHICLE USING BOOSTER CABLES



Rotating parts of the engine can cause serious injury. Take extreme care when working near rotating parts of the engine.



Before attempting to start the disabled vehicle, make sure that the parking brake is applied, or suitably chock the wheels. Make sure that Park is selected or the manual gearbox is in neutral.



Suitable eye protection must be worn when working in the area of the battery.



Do not attempt to start the disabled vehicle if it is suspected that the electrolyte in the battery is frozen.



During normal use, batteries emit explosive gas sufficient to cause severe explosions and capable of causing serious injury - keep sparks and naked lights away from the engine compartment.



Make sure there is no physical contact between the donor and disabled vehicles other than the booster cables.



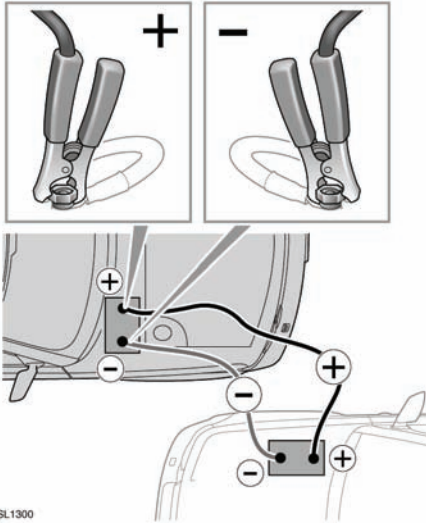
Make sure that the slave battery or starting aid is a 12 volt device.



Disconnect the booster cables prior to operating any electrical equipment.

**Note:** Before connecting booster cables ensure that the battery connections on the disabled vehicle are correct, and that all electrical equipment has been switched off.

# Vehicle battery



1. Connect one end of the positive (Red) booster cable to the positive terminal on the donor vehicle's battery.
2. Connect the other end of the positive booster cable to the positive terminal on the disabled vehicle's battery.
3. Connect one end of the negative (Black) booster cable to the negative terminal on the donor vehicle's battery.
4. Connect the other end of the negative booster cable to a suitable earth point on the disabled vehicle. The earth point should be at least 0.5 metres (20 inches) away from the battery and as far as possible from any fuel or brake pipes.

**Note:** Check that all cables are clear of any moving components, and that all four connections are secure.

5. Start the engine of the donor vehicle and allow it to idle for a few minutes.
6. Start the engine of the disabled vehicle.

**Note:** Do not switch on any electrical circuits of the disabled vehicle until after the booster cables are removed.

7. Allow both vehicles to idle for a few minutes.
8. Switch off the donor vehicle.
9. Disconnect the negative (Black) booster cable from the previously disabled vehicle.
10. Disconnect the negative (Black) booster cable from the battery of the donor vehicle.
11. Disconnect the positive (Red) booster cable from the previously disabled vehicle.
12. Disconnect the positive (Red) booster cable from the donor vehicle.

## STARTING A DISABLED VEHICLE USING A STARTING AID

To start the vehicle using a starting aid or a slave battery, follow the instructions in the sequence given.

1. Connect the positive (Red) booster cable to the positive battery terminal of the disabled vehicle.
2. Connect the negative (Black) booster cable to the negative (-) terminal of the battery.
3. Start the engine and allow it to idle.
4. Disconnect the negative (Black) booster cable from the battery terminal of the vehicle.
5. Disconnect the positive (Red) booster cable from the battery terminal of the vehicle.

## REMOVING THE VEHICLE BATTERY



Switch the ignition off before disconnecting battery terminals. Always disconnect the negative terminal first and reconnect last.



Use caution when lifting the battery out of, or into, the vehicle. It is heavy, and may cause injury when lifting, or if dropped.



Do not tip the battery when lifting or moving as tilting the battery more than 45 degrees may damage the battery, and may cause the electrolyte to leak out. Battery electrolyte is highly corrosive, and toxic.



Do not rest the battery on any part of the vehicle as it may cause damage due to its weight.



Do not run the engine with the battery disconnected. Doing so may damage the charging system.

1. Ensure that all electrical circuits are switched off, all windows are closed, and the alarm is disarmed.
2. Remove the Smart Key from the vehicle and wait two minutes to allow the systems to power down fully.
3. Undo the negative clamp, and lift the cable and clamp clear of the battery terminal.
4. Undo the positive clamp, and lift the cable and clamp clear of the battery terminal.
5. Undo the battery clamp and lift the battery clear of the vehicle.

## CHARGING THE VEHICLE BATTERY



Always charge the battery in a well ventilated area away from any naked flames, sparks or other ignition sources. During charging the battery can produce a highly explosive and flammable gas.



Ensure that the correct type and rating of charger used. Using an unsuitable charger may damage the battery, and could cause the battery to explode.



Always follow the instructions supplied with the battery charger. Failure to do so may result in damage to the battery.



The battery must be disconnected and removed from the vehicle before charging. Failure to do so could result in damage to the vehicle's electrical system.

1. Disconnect the battery and remove it from the vehicle.
2. Connect the battery charger in accordance with the charger manufacturer's instructions.
3. Once the charge is complete switch off the power to the charger.
4. Disconnect the charger cables from the battery.
5. Allow the battery to stand for an hour before connecting to the vehicle. This will allow any explosive gasses to dissipate, and reduce the risk of explosion.

## EFFECTS OF DISCONNECTING

Disconnecting the battery can affect a number of vehicle systems, especially if there is insufficient battery power prior to disconnection. For example, the alarm may trigger depending on its state when the battery was disconnected. If the alarm does sound, use the Smart Key in the normal way to disarm the security system. The sunroof may need recalibrating to operate correctly. ABS and DSC will be deactivated. To reactivate, start the engine and turn the steering wheel from full lock left to full lock right.

## REPLACEMENT BATTERIES



**Only fit a battery of the correct type and rating. Fitting an incorrect battery may result in a fire, or damage to the electrical system. If you are in any doubt when fitting a battery seek qualified assistance.**

## BATTERY DISPOSAL



Used batteries must be disposed of correctly as they contain a number of harmful substances. Seek advice on disposal from your Dealer/Authorised

Repairer and/or your local authority.

## REFITTING



**When refitting the battery ensure that no metal objects, or vehicle components, come into contact with the battery terminals. Metal objects can cause a spark or short circuit, both of which may result in an explosion.**



Ensure that when fitting a battery to the vehicle, the terminals and battery clamps are clean, and lightly coated with petroleum jelly. This will ensure good electrical connections are made, and help to prevent corrosion.



Always follow the battery manufacturers instructions. Failure to do so may result in damage to the vehicle and/or the electrical system.

A new battery should be supplied with plastic terminal covers. Leave the covers in place when fitting the battery, and remove them one at a time to fit the battery cable clamps.

Refitting is an exact reversal of the removal procedure. If you are in any doubt about fitting a battery seek qualified assistance before attempting to fit the battery.

## BATTERY MONITORING SYSTEM (BMS)

If excessive battery discharge occurs, the BMS will begin to shut down non-essential electrical systems to protect battery power.

## TYRE CARE



**Avoid contaminating the tyres with vehicle fluids as they may cause damage to the tyre.**



**If wheel spin is unavoidable due to a loss of traction (in deep snow for example), do not exceed the 50 km/h (30 mph) point on the speedometer.**



All of the vehicle's tyres (including the spare) should be checked regularly for damage, wear and distortion. If you are in any doubt about the condition of a tyre, have it checked immediately by a tyre repair centre or your Land Rover Dealer/Authorised Repairer.

## TYRE PRESSURES



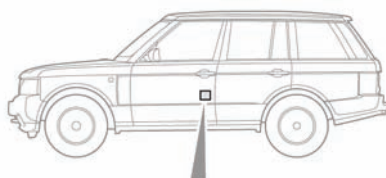
**Pressure checks should be carried out only when the tyres are cold and the vehicle has been stationary for more than three hours. A hot tyre at, or below, recommended cold inflation pressure, is dangerously under-inflated.**











## CHECKING THE TYRE PRESSURES



**Tyre pressures should be checked regularly using an accurate pressure gauge, when the tyres are cold.**



 				PAVEMENT	FOUR	DATA	PTCXXXXXX
		(KPA) (BAR) (PSI)	(KPA) (BAR) (PSI)				
XXXXXXX00X XXXXXXX00X	MAX 	>XXXXPH >XXXXPH	XXX X.X XX XXX X.X XX	XXX X.X XX XXX X.X XX	XXX X.X XX XXX X.X XX	XXX X.X XX XXX X.X XX	XXX X.X XX XXX X.X XX
XXXXXXX00X XXXXXXX00X			XXX X.X XX	XXX X.X XX	XXX X.X XX	XXX X.X XX	XXX X.X XX
TDXXXXR00X	MAX 		XXX X.X XX	XXX X.X XX	XXX X.X XX	XXX X.X XX	XXX X.X XX

SI 1446

Tyre pressures should be checked once a week with normal use but more frequently if the vehicle is used off-road.

The following procedure should be used to check and adjust the tyres pressures.

1. Remove the valve cap.
2. Firmly attach a tyre pressure gauge/inflator to the valve.
3. Read the tyre pressure from the gauge and add air if required.
4. If air is added to the tyre, remove the gauge and re-attach it before reading the pressure. Failure to do so may result in an inaccurate reading.
5. If the tyre pressure is too high, remove the gauge and allow air out of the tyre by pressing the centre of the valve. Refit the gauge to the valve and check the pressure.
6. Repeat the process, adding or removing air as required, until the correct tyre pressure is reached.
7. Refit the valve cap.

## TYRE VALVES

Keep the valve caps screwed down firmly to prevent water or dirt entering the valve. Check the valves for leaks when checking the tyre pressures.

## PUNCTURED TYRES



**Do not drive the vehicle with a punctured tyre. Even if the punctured tyre has not deflated, it is unsafe to use, as the tyre may deflate suddenly at any time.**

## REPLACEMENT TYRES



**Do not fit cross-ply tyres.**

**Do not fit tubed tyres.**

**Do not rotate tyres around the vehicle.**

**If the use of tyres not recommended by Land Rover is unavoidable, ensure that you read and fully comply with the tyre manufacturer's instructions.**

Ideally, tyres should be replaced in sets of four. If this is not practicable, replace the tyres in pairs (both front or both rear). See **WHEELS AND TYRES, 224**.

## PRESSURE COMPENSATION FOR AMBIENT TEMPERATURE CHANGES

A colder ambient local temperature will lower pressure within the tyre. Sidewall height will decrease and tyre shoulder wear will increase with the potential for tyre failure. Vehicle dynamics could also be adversely affected.

Tyre pressures can be adjusted to compensate before the start of the journey. Alternatively, tyre pressures can be adjusted when the area of lower ambient temperature is reached.

In this situation, the vehicle must be left in the ambient local temperature for at least one hour before tyre pressure is adjusted.

Tyre pressure temperature compensation	
Ambient temperature °C (°F)	Pressure compensation bar (psi, kPa)
-10 (14)	+ 0.41 (6, 41)
0 (32)	+ 0.28 (4, 28)
10 (50)	+ 0.14 (2, 14)
20 (68)	as tyre label



**Note:** Ensure that correct tyre pressures are maintained when moving to areas of differing ambient temperature.

## FLAT SPOTS DUE TO LONG TERM PARKING

In order to minimise flat spotting, tyre pressures can be increased to the maximum as stated on the tyre sidewall, for the period when the vehicle is stationary. Tyres must be returned to the specified running pressures before driving.

## AGE DEGRADATION

Tyres degrade over time due to the effects of ultraviolet light, extreme temperatures, high loads, and environmental conditions. It is recommended that tyres are replaced at least every six years, but they may require replacement more frequently.

## USING WINTER TYRES

If winter tyres are fitted to the vehicle, the tyre manufacturer's instructions must be followed. Pay particular attention to the correct tyre pressures and the maximum speed that the vehicle can be driven at.

Winter tyres must be fitted on all four wheels. See **WHEELS AND TYRES, 224**.

## USING TRACTION DEVICES



**Only use traction devices in heavy snow conditions, on hard road surfaces.**



**Dynamic Stability Control (DSC) must be switched off when using traction devices.**



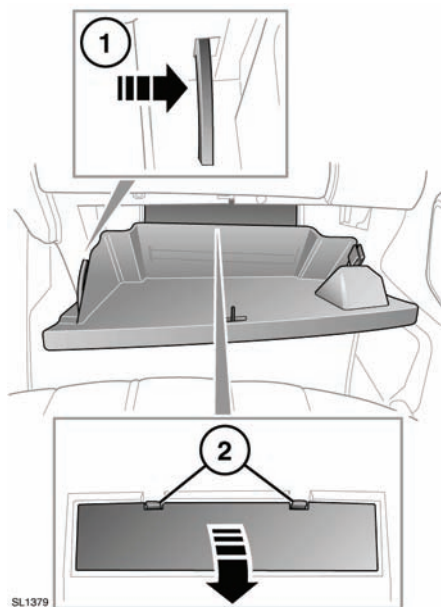
**Never exceed 50 km/h (30 mph) when traction devices are fitted.**

Land Rover approved traction devices may be used to improve traction on a hard road surface in heavy snow conditions. They should not be used in off-road conditions.

If it becomes necessary to fit traction devices, the following points must be observed:

- **Rear wheels:** Snow chains can be fitted to 19 inch rear wheels.
- **Front wheels:** Single sided Spike-spyder traction devices can be fitted only to 20 inch front wheels.
- The wheels and tyres fitted must conform to the specifications of the original equipment.
- Only Land Rover approved traction devices should be used on the vehicle. Only Land Rover approved traction devices have been tested to ensure that they do not cause damage to the vehicle. Contact your Land Rover Dealer/Authorised Repairer for information.
- Fit traction devices in pairs on the same axle.
- Always read, understand and follow the traction device manufacturer's instructions. Pay particular attention to the maximum speed and fitting instructions.
- Avoid tyre/vehicle damage, by removing the traction devices as soon as the conditions allow.

## PASSENGER COMPARTMENT FUSE BOX



1. Support stay.
2. Fuse box cover catches.

To access the passenger compartment fuse box, open the lower glove box, push the support stay to the right and lower the glove box into the service position.

Press down on the fuse box cover catches and pull towards you. Put the cover in a safe place.

A label on the rear of the cover shows fuse and circuit information.

## CHANGING A FUSE



Fit Land Rover approved replacement fuses of the same rating and type, or fuses of matching specification. Using an incorrect fuse, may result in damage to the vehicle's electrical system and can result in a fire.



If the replacement fuse blows after installation, the system should be checked by your Land Rover Dealer/Authorised Repairer.

**Note:** Land Rover recommend that relays should be replaced only by qualified persons.

Always switch off the ignition and the affected electrical circuit, before replacing a fuse.

The fuse removal tweezers are located in the fusebox. Press the tweezers onto the head of a fuse and pull to remove. A break in the wire inside the fuse indicates that the fuse has blown and must be replaced.

There are some spare replacement fuses in the fusebox. See the fuse box cover label.

## ENGINE COMPARTMENT FUSE BOX

Fuses and relays located in the engine compartment fuse box should be accessed or replaced only by a qualified technician.

## PASSENGER COMPARTMENT FUSES

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
1	5	Tan	Interior motion sensor, RF receiver, TPMS receiver
2	-	-	Spare
3	10	Red	Front fog lamps
4	-	-	Spare
5	5	Tan	Dynamic stability control, steering angle sensor
6	5	Tan	Adaptive cruise control, brake light switch
7	20	Yellow	Rear climate seats
8	30	Green	Passenger's electric seat, rear electric seats
9	5	Tan	Electric parking brake
10	5	Tan	Air suspension
11	10	Red	Trailer reverse lamp
12	5	Tan	Reverse lamps
13	-	-	Spare
14	5	Tan	Brake lamps, EMS (Diesel only)
15	30	Green	Heated rear screen
16	5	Red	Spare
17	5	Tan	Keyless entry/start
18	-	-	Spare
19	5	Tan	Engine control module
20	10	Red	Heated steering wheel
21	10	Red	Centre console switches, rear climate control, climatic seats
22	5	Tan	Transmission, transfer box, rear differential, centre console switches
23	5	Tan	Adaptive front lighting
24	10	Red	Right-hand side lamps, tail lamps
25	10	Red	Left-hand side lamps, tail lamps, number plate lamps
26	-	-	Spare
27	10	Red	Trailer side lamps
28	20	Yellow	Rear climate seats

## Fuses

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
29	20	Yellow	Driver's climatic seat/heated seat
30	25	White	Front passenger door
31	5	Tan	Rain sensor
32	25	White	Driver's door
33	20	Yellow	Passenger's climatic seat/heated seat
34	10	Red	Electric fuel flap actuator
35	-	-	Spare
36	5	Tan	Battery back-up sounder
37	20	Yellow	Spare
38	15	Blue	Front screen washer
39	25	White	Rear left-hand door
40	5	Tan	Driver's window switch pack, seat switch packs, front seat lumbar, clock
41	5	Tan	Telephone
42	30	Green	Driver's electric seat, rear electric seats
43	15	Blue	Rear screen washer
44	25	White	Rear right-hand door
45	30	Green	Passenger's electric seat, rear electric seats
46	30	Green	Driver's electric seat, rear electric seats
47	20	Yellow	Sunroof
48	30	Green	Trailer connector (battery feed)
49	5	Tan	Adaptive front lighting (right-hand unit)
50	5	Tan	Adaptive front lighting (left-hand unit)
51	5	Tan	Steering wheel switches
52	20	Yellow	Front cigar lighter, centre console accessory socket
53	-	-	Spare
54	-	-	Spare
55	20	Yellow	Auxiliary power socket - rear
56	10	Red	Airbag SRS
57	10	Red	Interior lamps, battery saver circuits
58	30	Green	Deployable sidestep
59	-	-	Spare

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
60	-	-	Spare
61	10	Red	Instrument panel
62	10	Red	Climate control ECU
63	20	Yellow	Rear cigar lighter, front auxiliary power socket
64	15	Blue	Audio unit, DVD player, touch screen
65	5	Tan	Surround camera system, Venture cam
66	5	Tan	Diagnostic socket
67	15	Blue	Rear seat entertainment
68	10	Red	Touch screen display, infotainment
69	5	Tan	CD autochanger

## REAR LOADSPACE FUSE BOX

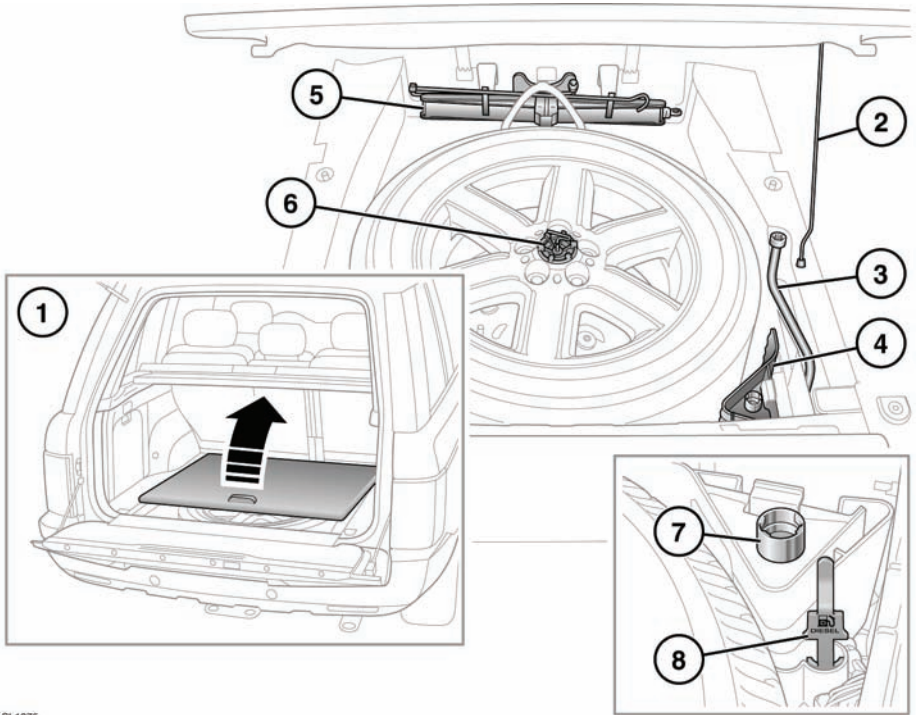
The fuse box is located on the right hand side of the loadspace behind the rear loadspace access hatch. Pull the handle to open the panel.

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
1	30	Green	Audio system amplifier
2	15	Blue	Adaptive dynamics
3	5	Tan	Parking aid, blind spot monitor, rear view camera
4	10	Red	Rear air conditioning
5	20	Yellow	Air suspension
6	30	Green	Electronic park brake
7	40	Orange	Rear climate seats
8	15	Blue	Trailer
9	-	-	Spare
10	-	-	Spare
11	5	Tan	Glove box
12	-	-	Spare
13	5	Tan	Air suspension compressor
14	15	Blue	Rear blower motor
15	15	Blue	Rear screen wiper
16	5	Tan	Spare
17	-	-	Spare

## Fuses

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
18	-	-	Spare
19	-	-	Spare
20	30	Green	Rear seat heaters

## CHANGING A ROAD WHEEL



SL1375

Before accessing the spare wheel well, fold forward the rear edge or the loadspace cover.

1. Floor hatch.
2. Hatch support stay.
3. Wheel nut brace.
4. Wheel chocks.
5. Jack.
6. Wheel retaining bolt.
7. Locking wheel nut adaptor.
8. Diesel misfuel protector reset tool.



**Wheels are heavy and if handled incorrectly may cause injury. Use extreme caution when lifting or manoeuvring the wheels.**



**Always secure the spare wheel, or the removed wheel, in the correct position using the retaining bolt.**

Always remove the spare wheel before jacking the vehicle.

**Note:** Examine the jack occasionally, clean and grease the moving parts, particularly the screw thread, to prevent corrosion.

## DEPLOYABLE SIDE STEPS

If the vehicle is fitted with the optional deployable side steps, DO NOT attempt to jack up the vehicle. The side steps must be removed before jacking can proceed. Refer to the information supplied with the side steps for removal details. Alternatively, refer to your Warranty Benefits book and contact the appropriate recovery service for assistance.

## USING WHEEL CHOCKS



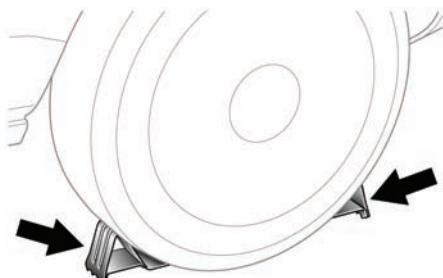
**Before raising the vehicle, the wheel diagonally opposite the one to be removed must be chocked.**



**Always chock the wheels using suitable wheel chocks. Place the chocks on both sides of the wheel diagonally opposite the wheel to be changed.**



**If jacking the vehicle on a slight slope is unavoidable, place the chocks on the downhill side of both wheels on the axle not being raised.**



Both chocks must be used. Position them on opposite sides of the wheel and fully push them home against the tyre.

## REMOVING THE SPARE WHEEL



**Remove the spare wheel prior to jacking the vehicle, to avoid destabilising the vehicle when raised.**



**Do not use power tools to loosen the spare wheel. Doing so may damage the mechanism.**

1. Open the spare wheel access hatch in the loadspace area.
2. Turn the wheel retaining bolt counter clockwise until it comes free.
3. Remove the spare wheel.

## WHEEL CHANGING SAFETY

Before raising the vehicle or changing a wheel, ensure that you read and comply with the following warnings.



**Always find a safe place to stop, off the highway and away from traffic.**



**Ensure that the vehicle and jack are both on firm level ground.**



**Apply the parking brake. Engage Park (P) on automatic vehicles, select 1st or reverse gear on manual vehicles.**



**Switch on the hazard warning lamps.**



**Ensure that the front wheels are in the straight ahead position and engage the steering lock.**



**Disconnect trailer/caravan from vehicle.**



**Ensure that all passengers, and animals, are out of the vehicle and in a safe place away from the highway.**



**Place a warning triangle at a suitable distance behind the vehicle, facing towards oncoming traffic.**





Never place anything between the jack and the ground, or the jack and the vehicle.



Take care when loosening the wheel nuts. The wheel brace may slip off if not properly attached and the wheel nuts may give way suddenly. Either unexpected movement, may cause an injury.



Take care when lifting the spare wheel, and removing the punctured wheel. The wheels are heavy, and can cause injuries if not handled correctly.

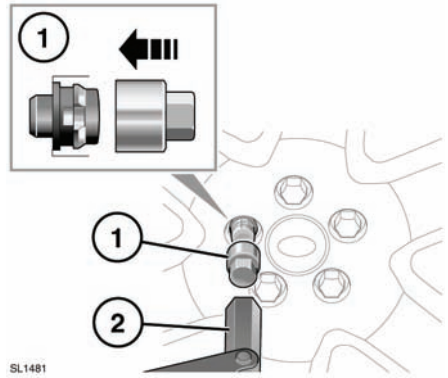
## LOCKING WHEEL NUTS

Locking wheel nuts can be removed using only the special adapter provided in the tool kit.

**Note:** When the vehicle is first supplied, the adapter may be stored in the glove compartment. It should be removed and stored in the tool kit as soon as possible.

**Note:** A code number is stamped onto the underside of the adapter. This number must be recorded on the security card supplied with the literature pack. If a replacement adapter is required, you will be asked to quote this number. The security card must be kept safe, but should not be kept with the vehicle.

## RELEASING LOCKING WHEEL NUTS



1. Insert the wheel nut adapter into the locking wheel nut, ensuring that it is fully engaged.
2. Locate the wheel brace over the adapter and unscrew the wheel nut half a turn counter clockwise.
3. After raising the vehicle on the jack, remove the locking wheel nut.

**Note:** After use store the wheel nut adapter correctly in the tool kit.

## OPERATING THE JACK



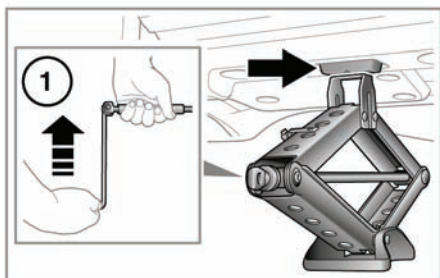
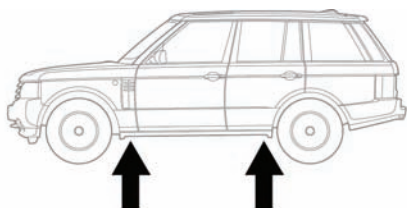
**WARNING:** Do not get under a vehicle that is supported by a jack.



**Position the jack from the side of the vehicle, in line with the appropriate jacking point.**



Jack up the vehicle using only the jacking points described, or damage to the vehicle could occur.



SL1396

1. Locate the jack under the relevant jacking point.
2. Attach the cranking lever to the jack using the adaptor. Fit the wheel nut brace to the end of the cranking lever.
3. Rotate clockwise to raise until the jack pin locates into the jacking point.
4. Continue raising the vehicle until the wheel is clear of the ground.

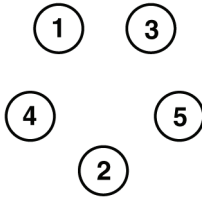
## WHEEL CHANGING



**Ensure the air suspension is set to 'on road' or 'normal' height.**

**Note:** Your vehicle may be fitted with a tilt sensor which activates the alarm if the vehicle is tilted in any direction after it has been locked. To lock the doors while changing the wheel, and avoid the alarm activating, press the smart key lock button twice within 10 seconds. If you prefer to use the door key, use it in the driver's door lock and turn towards the rear of the vehicle twice within 10 seconds.

1. Before raising the vehicle, use the wheel nut brace to slacken the wheel nuts half a turn counter clockwise.
2. Operate the jack to raise the vehicle.
3. Remove the wheel nuts and place them together where they cannot roll away. See **241, RELEASING LOCKING WHEEL NUTS.**
4. Remove the wheel and place to one side. Do not lay the wheel on its face, as this may damage the finish.
5. Fit the spare wheel to the hub.
6. Re-fit the wheel nuts, and lightly tighten them. Ensure that the wheel is making contact with the hub evenly.
7. Ensure that the space under the vehicle is clear of obstructions and lower the vehicle slowly and smoothly.
8. With all wheels on the ground and the jack removed, fully tighten the wheel nuts. The wheel nuts must be tightened in sequence (see illustration) to the correct torque of 140 Nm (103 lb.ft).



SL1140

**Note:** If it is not possible to torque the wheel nuts when a wheel is replaced, they should be set to the correct torque as soon as possible.

If an alloy spare wheel is to be fitted, using a suitable blunt tool, knock the centre cap out of the removed wheel. Using hand pressure only, press the centre cap into the newly fitted spare. Check and adjust the tyre pressure as soon as possible.

## STOWING THE CHANGED WHEEL



**Do not stow the wheel while the vehicle is raised on the jack.**



**Wheels are heavy and if handled incorrectly may cause injury. Use extreme caution when lifting or manoeuvring the wheels.**



**Do not use power tools to tighten the spare wheel retaining bolt. Doing so may damage the mechanism.**

1. Place the wheel into the storage position with the styled face uppermost.
2. Locate and tighten the retaining bolt until the wheel is secure.
3. Ensure that all tools are secured in their correct stowage positions.

## RECOVERY

In the event of a breakdown, the vehicle should be recovered to a Land Rover Dealer. They will have the equipment necessary to diagnose and fix the problem.

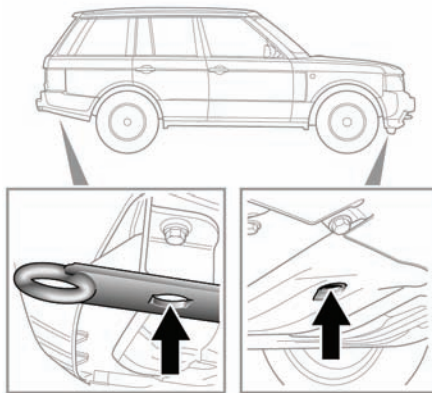
## LASHING POINTS

Lashing points are for use only when securing the vehicle, usually onto a trailer.

Do not use any other part of the vehicle to secure lashing hooks, ropes or other fixings.

### IMPORTANT

When the vehicle is loaded onto a trailer, set the air suspension to Access height. Do this **BEFORE** securing the vehicle to the trailer. Apply the parking brake and chock the wheels.



SL1444



Do not use the front and rear lashing points for towing.

## FRONT AND REAR TOWING EYES



**The towing eyes at the front and rear of the vehicle are designed for on-road recovery only. If they are used for any other purpose, it may result in vehicle damage and serious injury.**



Remove the front towing eye cover before driving off-road, to prevent damage or loss.

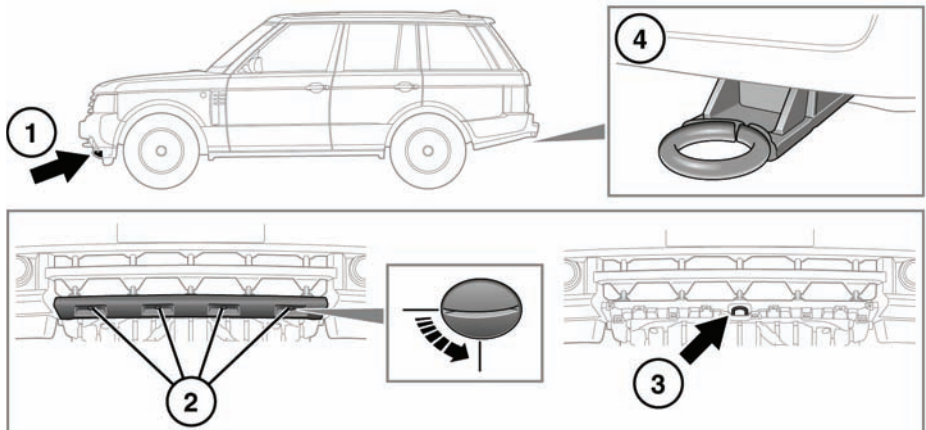
## OFF-ROAD RECOVERY



**If the towing eyes are to be used for off-road recovery, it is essential that off-road driver training covering recovery techniques is undertaken.**

**Further information on off-road driver training can be found at <http://www.landroverexperience.com>**

## TOWING EYES



SL1395

1. The front towing eye is located behind a removable cover in the lower front bumper.
2. Rotate each of the fasteners 90 degrees counter clockwise with a coin (or similar). Using both hands, remove the cover. Store in a safe place.
3. The towing eye is exposed and ready for use.
4. The rear towing eye may be used to tow another vehicle if required. There is no cover to remove.

## TOWING THE VEHICLE ON FOUR WHEELS



**Do not remove the Smart Key from the vehicle as this will lock the steering column.**



**If the vehicle battery is to be disconnected, the steering column must be unlocked first. It is not possible to unlock the steering column with the battery disconnected.**



**If the engine cannot be used during towing, there will be no power assistance to the braking or steering systems. This will result in much greater effort to steer and stop the vehicle and in a greatly increased stopping distance.**



**The vehicle should be recovered with all four wheels clear of the ground, e.g., on a trailer.**



If the vehicle must be towed, only tow in a forward direction with all four wheels on the ground. Towing in a reverse direction or with only two wheels on the ground, will cause serious damage to the transmission.



Do not tow the vehicle for more than 50 km (30 miles), at a maximum speed of 50 km/h (30 mph). Towing for a greater distance or at a higher speed, may result in serious damage to the transmission.



Do not tow the vehicle if the gearbox cannot be set in neutral, or the rear electronic differential has failed in the locked position.



If your transmission is controlled with a rotary drive selector, the recovery agent **MUST** activate the Emergency Park Release before towing commences.

Your vehicle has a permanent four-wheel drive system and is fitted with a steering lock. The following procedure must be carried out carefully to prevent damage to the vehicle:

1. Remove the front towing eye cover.
2. Secure the towing attachment from the recovery vehicle to the front towing point.
3. With the parking brake applied, switch on the ignition.
4. Apply the foot brake and place the gear lever into neutral.
5. Switch off the ignition and leave the Smart Key in a secure place within the vehicle.
6. The ignition may be switched on to allow operation of indicators, brake lamps etc.
7. Release the parking brake before towing the vehicle.



Leaving the ignition switched on for extended periods will drain the vehicle battery.

### AFTER TOWING ON FOUR WHEELS

1. Apply the parking brake.
2. Switch on the ignition and apply the foot brake.
3. Place the auto selector lever in the park position.
4. Switch off the ignition and remove the Smart Key from the vehicle.
5. Remove the towing attachment and refit the cover to the front towing point.



**Use extreme caution when detaching towing equipment. Vehicle movement is possible which can result in serious injury.**

## BEFORE STARTING OR DRIVING



**If the vehicle is involved in a collision it should be checked by a Dealer/ Authorised Repairer, or suitably qualified persons, before starting or driving.**

## EVENT DATA RECORDING

Event data recorders are capable of collecting and storing data during a crash or near-crash event. The recorded information may assist in the investigation of such an event. The modules may record information about both the vehicle and the occupants, potentially including such information as:

- How various systems in your vehicle were operating.
- Whether or not the driver and passenger seat belts were buckled.
- How far, if at all, the driver was pressing the accelerator and/or brake pedal.
- How fast the vehicle was travelling.
- Where the driver was positioning the steering wheel.

To access this information special equipment must be connected directly to the recording modules. Land Rover do not access event data recorder information without obtaining consent, unless pursuant to court order or where required by law enforcement, other government authorities or third parties acting with lawful authority.

Other parties may seek to access the information independently of Land Rover.