



FREELANDER 2

OWNER'S HANDBOOK

Publication Part No. LRL 10 02 56 112

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 sale. If the vehicle is to be used in another geographical area, it may need modifications to suit local requirements. Land Rover is not responsible for the cost of any modifications.

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.

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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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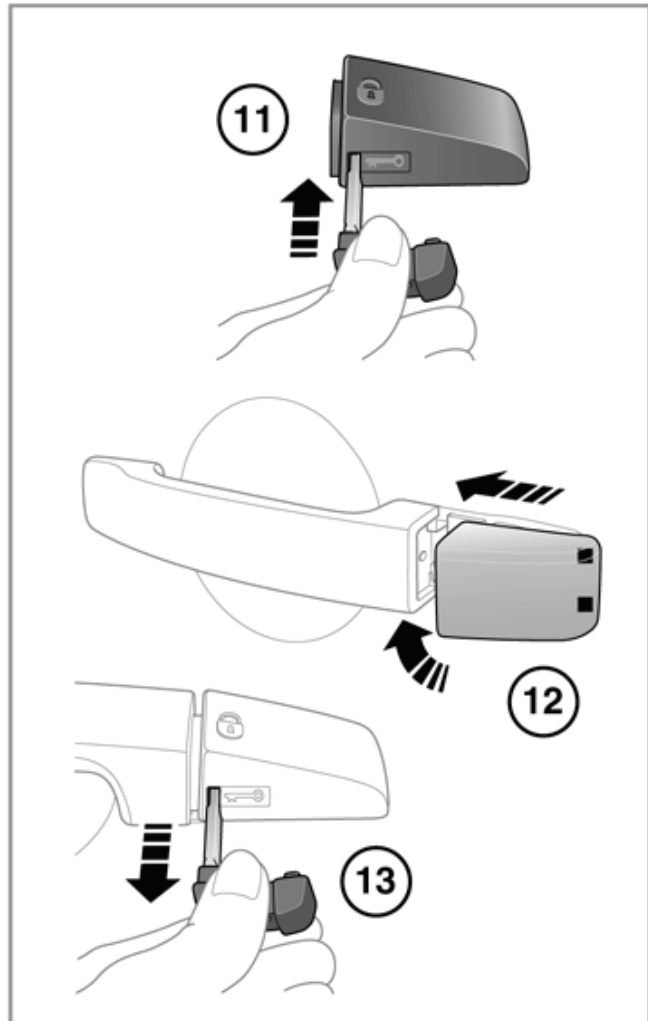
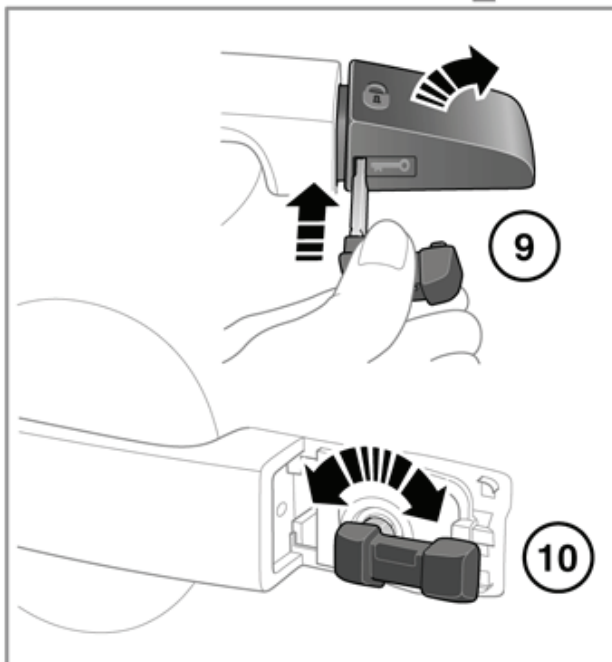
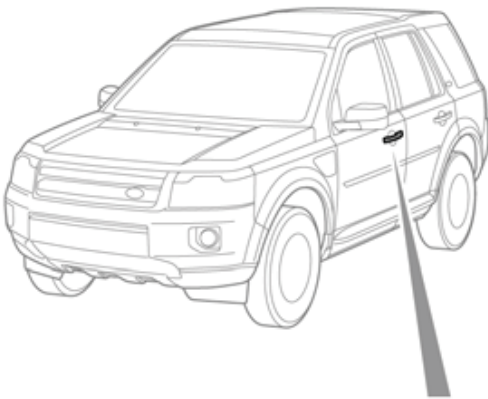
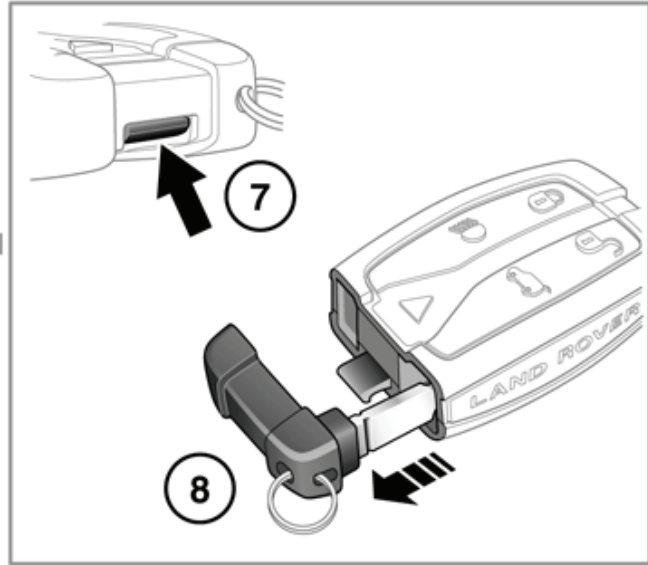
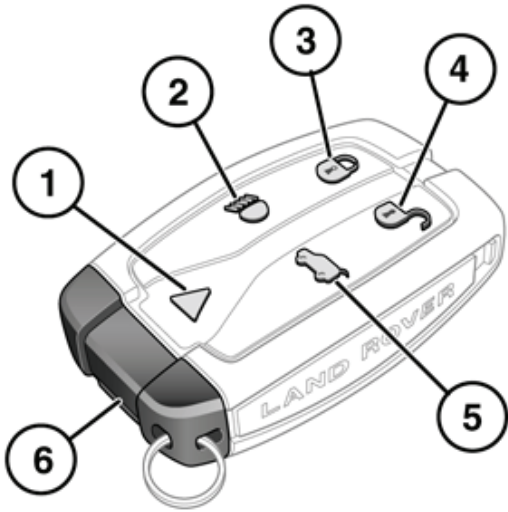
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Entering the vehicle

UNLOCKING THE VEHICLE



SL1005



To prevent accidental operation, never leave the remote control in the vehicle if children or animals are also left in the vehicle.

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

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

Notify your Dealer immediately if a remote control is lost or stolen.

1. 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 remote control is docked.

2. 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 by your Land Rover dealer.

3. Lock.

- Press to lock the vehicle.

4. 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

5. 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).

6. Emergency key blade.

7. Emergency key blade release tab.

8. Slide out to expose emergency key blade.

9. Fully insert the emergency key blade to remove cover.

10. Fully insert the emergency key blade into the lock and rotate to unlock the door.

11. Fully insert the emergency key blade into the lock cover.

12. Locate the rear of the lock cover using the tabs and close the cover.

13. Remove the emergency key blade from the cover.

Note: When the door is opened the alarm will begin to sound. To silence the alarm, dock the remote control.

GLOBAL OPENING

Press and hold the unlock button for 3 seconds to unlock the vehicle and open all of the windows.

Entering the vehicle

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 remote controls 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.

STEERING COLUMN LOCK



During vehicle recovery, the remote control must remain docked.

Your vehicle is fitted with an electronic steering column lock. The column unlocks when the remote control is docked.

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 remote control.
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.

REMOTE CONTROL BATTERY

The remote batteries are charged automatically when the remote is docked and the engine is running. For this reason it is recommended that each remote is used for a minimum of four hours every six months. This will ensure that the batteries remain charged ready for use.

LOCKING AND ARMING THE ALARM.

Press the lock button on the remote control 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 fuel filler flap can only be opened when the vehicle is unlocked.*

SINGLE LOCKING AND PERIMETER ALARM

Single locking secures the vehicle and prevents the doors 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.*

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.

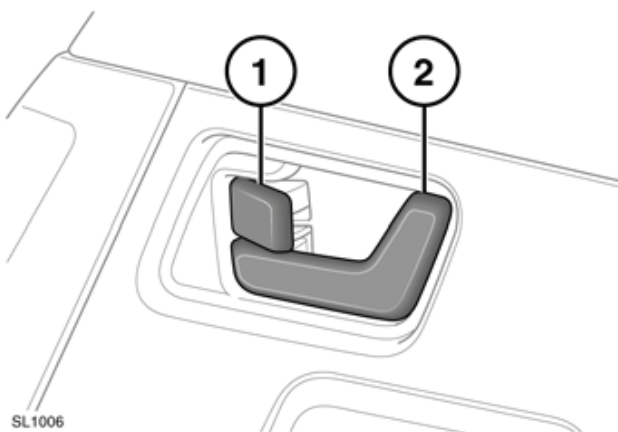
Note: For safety reasons the sunroof does not close automatically. It should be closed in the normal way before exiting the vehicle.

Press and hold the lock button for 3 seconds. The vehicle will single lock and the full alarm will be activated immediately. After 3 seconds any open windows will be closed.

DRIVE-AWAY LOCKING

Drive away locking automatically locks all the doors when the vehicle is in motion.

DOOR BUTTONS AND LEVERS



From inside the vehicle, all the doors can be locked by pressing either the driver or passenger lock lever (1).

Each rear door can be individually locked by pressing the appropriate locking lever.

To unlock and open a front door, pull the door handle (2). To unlock and open a rear door, first operate the lock lever, then pull the door handle.

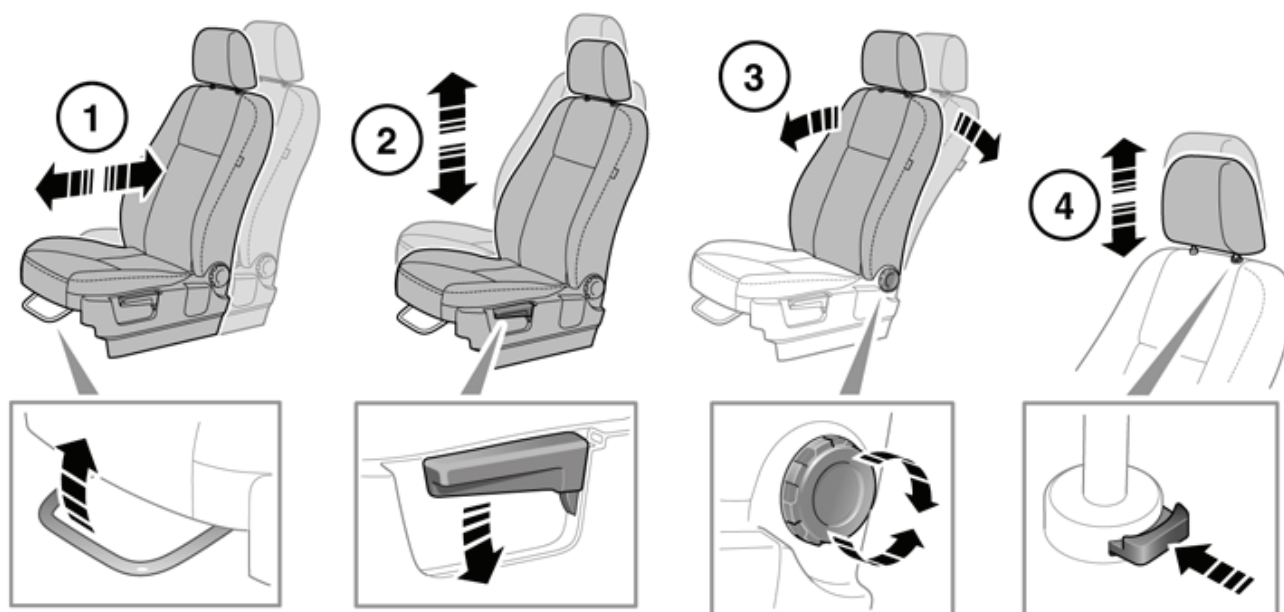
MISLOCK

When attempting to lock the vehicle, if one or more of the doors, the bonnet or the tailgate are not fully closed, the vehicle will fail to lock and the horn will sound. The vehicle will not fully lock until all doors, the bonnet and the tailgate are completely closed.

FASCIA LOCK AND UNLOCK BUTTONS

In addition to locking or unlocking the vehicle, the fascia buttons can be used to release the tailgate. To do so, press and hold both buttons simultaneously for three seconds.

MANUAL SEATS



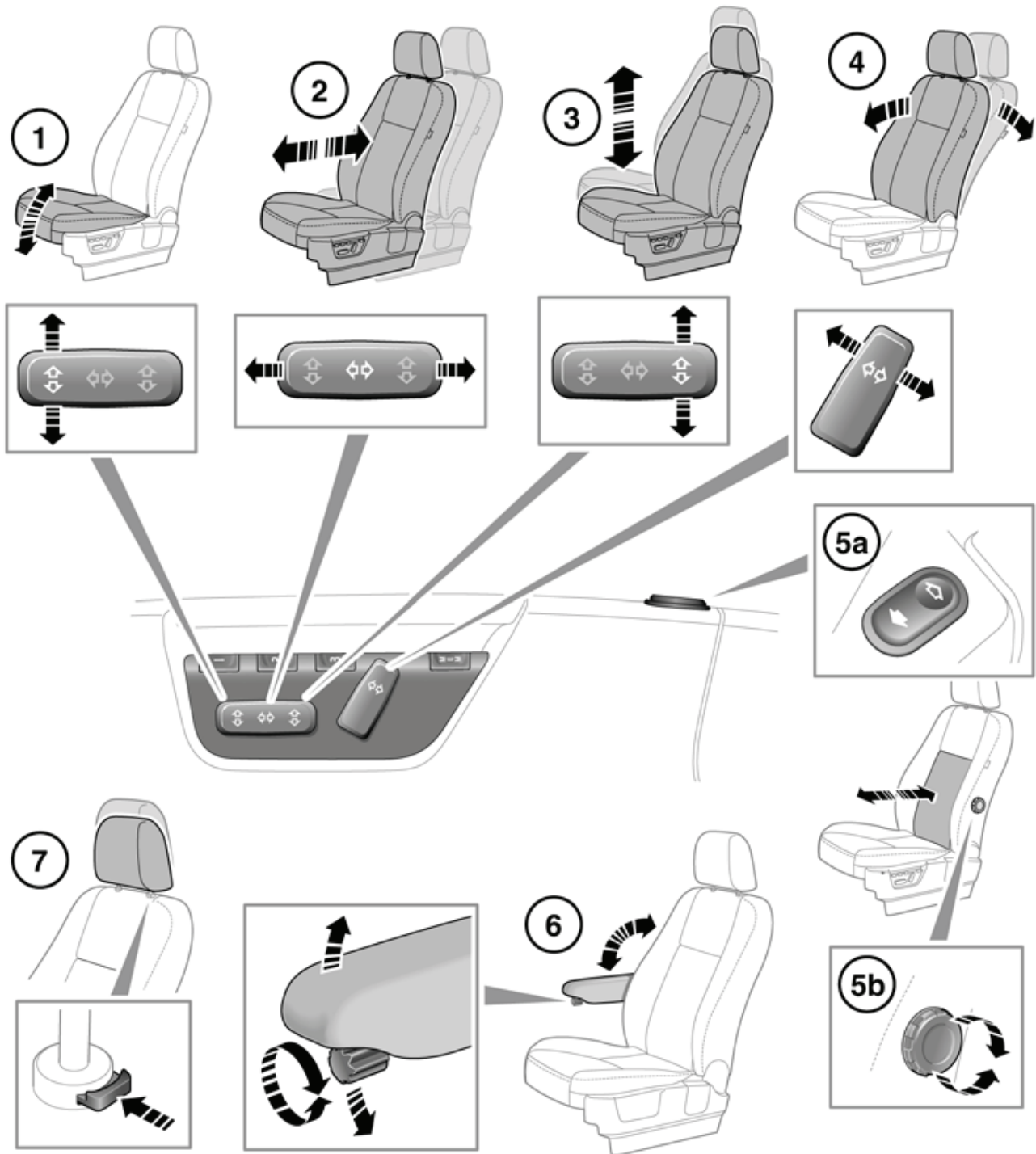
SL1544



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

1. Fore and aft adjustment.
2. Height adjustment.
3. Backrest adjustment.
4. Head restraint adjustment.

ELECTRIC SEATS



SL1007



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

1. Bolster adjustment.
2. Fore and aft adjustment.
3. Height adjustment.
4. Backrest adjustment.

5. Lumbar support adjustment.
 - A. Electric.
 - B. Manual.
6. Armrest adjustment.
7. Head restraint adjustment.

STALLED ADJUSTMENT

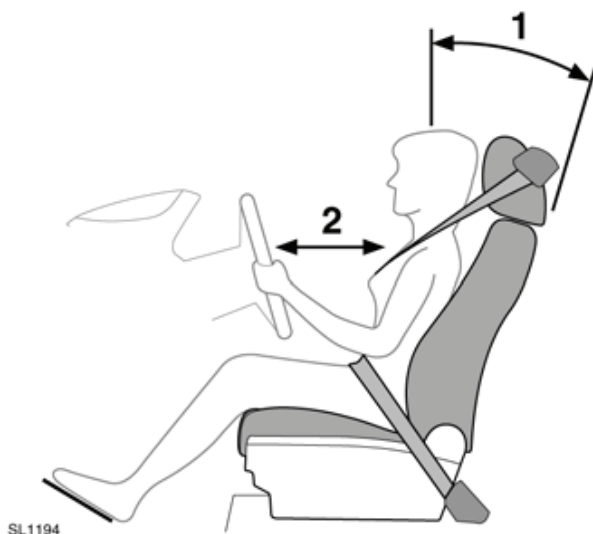
! If seat movement stops unexpectedly during adjustment check for, and remove, any obstructions.

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 two seconds. When the movement resumes, hold the button until the end of travel in that direction has been reached. The seat position 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/Authorised Repairer.*

SITTING IN THE CORRECT POSITION



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



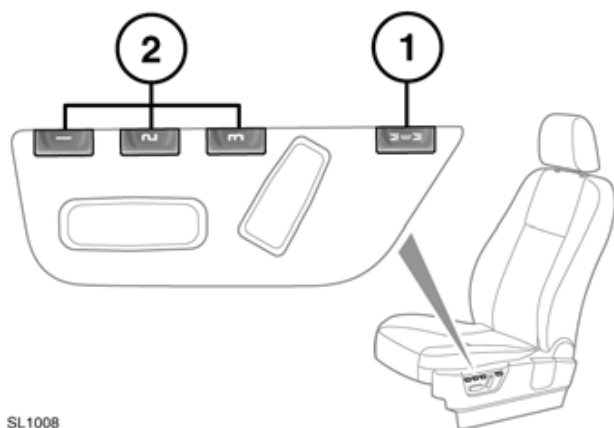
Do not adjust the seat while the vehicle is moving.

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.

DRIVING POSITION MEMORY

Once you have adjusted the power operated driver's seat and exterior mirrors (see **33, ELECTRIC EXTERIOR MIRRORS**) the vehicle can memorise these settings for future use.



SL1008

1. Press the memory store (M) button to activate the memory function.
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.

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 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.

1. Press the locking collar to release the head restraint.
2. Whilst pressing the locking collar, move the head restraint up or down to the required position.

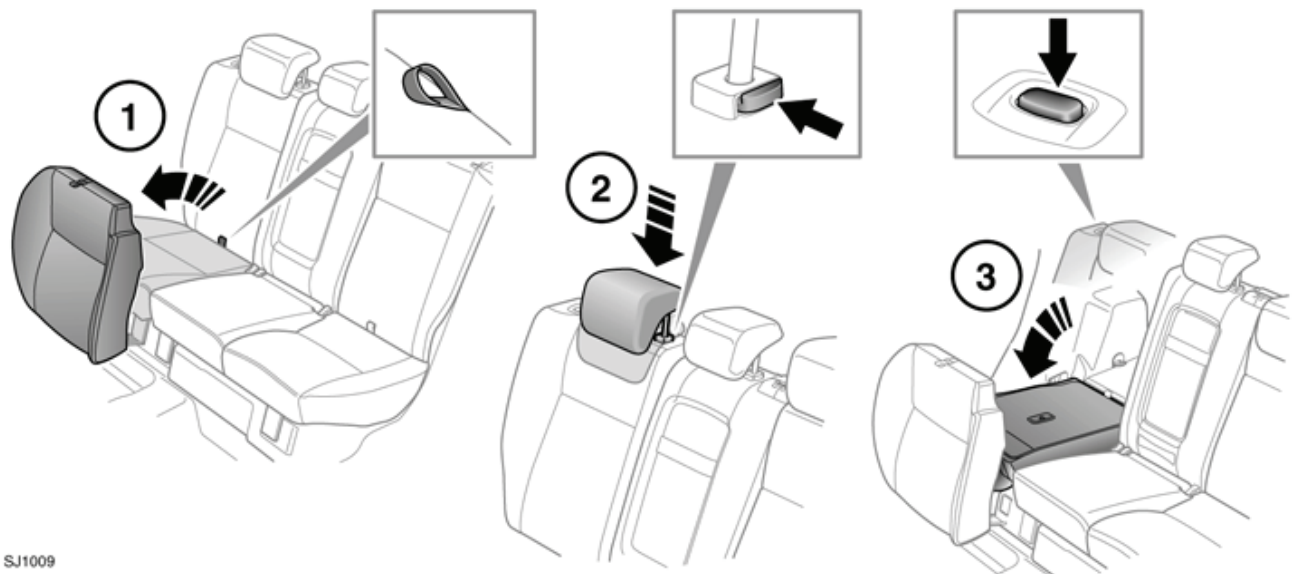
Manual head restraints may be removed, if required (e.g. to fit larger child seats). Raise the head restraint to its uppermost position and press the locking collar. Lift the restraint out of the seatback.

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.

Note: Refer to **18, CHILD SEATS**, for details on correct child restraint fitment.

FOLDING THE SEATS



SJ1009

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

To fold part or all of the seat:

1. Pull the strap on the required cushion(s), to raise to the vertical position.
2. Fully lower the head restraints.
3. Press the seat backrest release button(s), then lower the backrest(s) until locked into place.



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 buttons.

FOLDING AND ERECTING THE SEATS

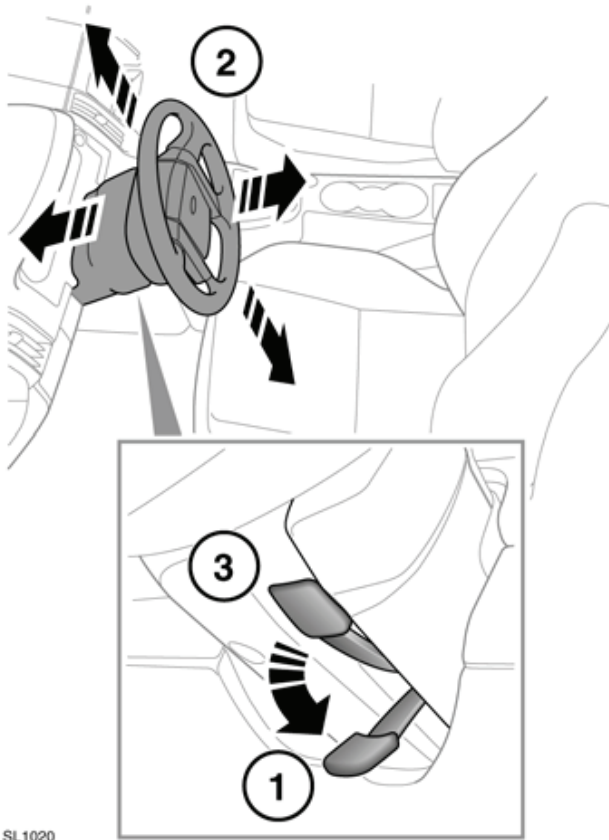


Always ensure that objects carried within the vehicle are secured properly.



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.

ADJUSTING THE STEERING COLUMN



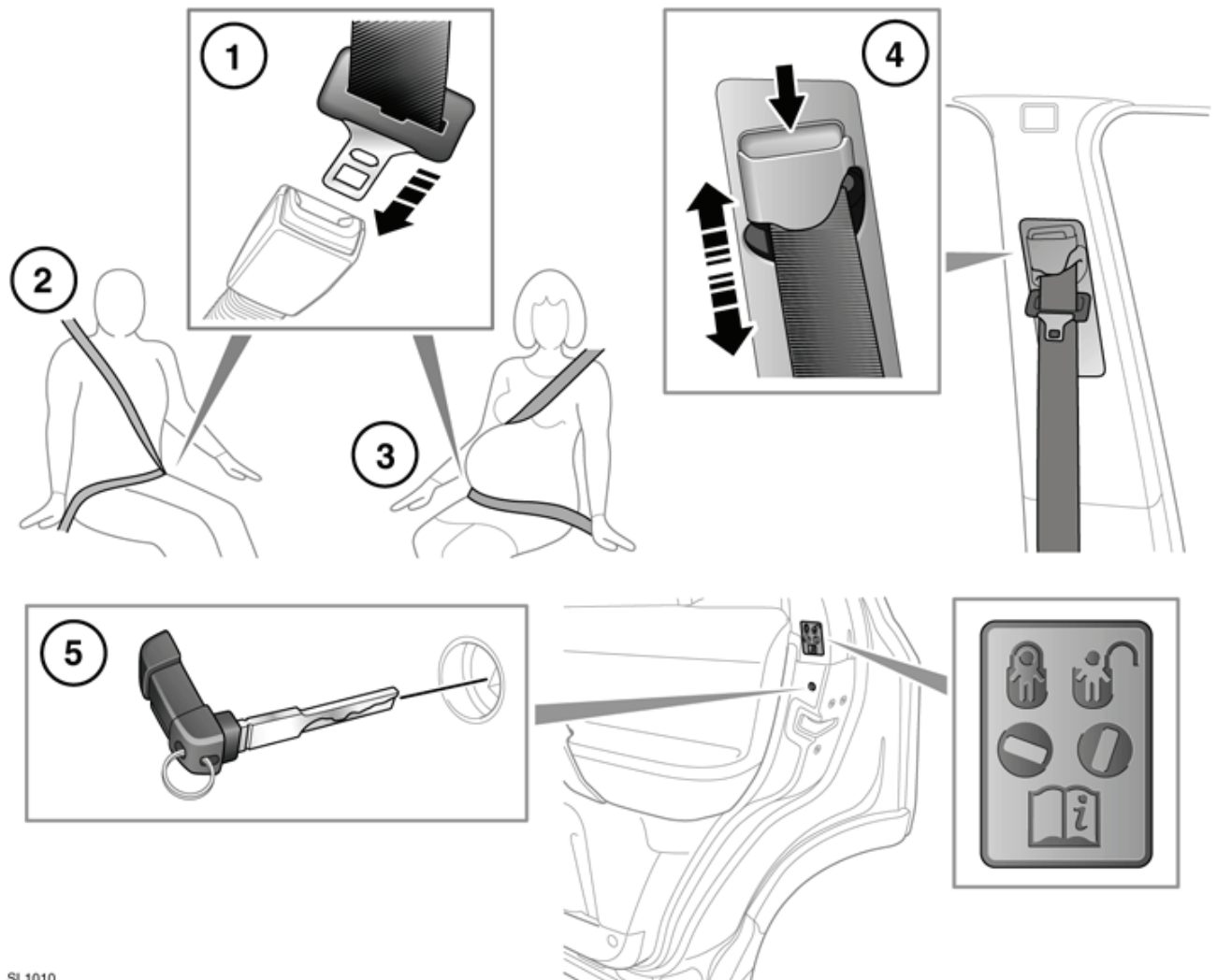
SL1020



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

1. Move the lever fully down to unlock the column.
2. Move the steering column up, down, in or out, to the desired position.
3. Move the lever fully up to re-lock the column.

USING SEATBELTS



SL1010

1. 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.

2. PUTTING ON A SEAT BELT:

Draw the belt out smoothly and 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. 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 whilst 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.

4. 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.

5. CHILD SAFETY LOCKS:

If children are to be carried in the rear seat positions, it is recommended that the rear door interior handles are disabled.

To change the child lock settings:-

- Open the door to access the child safety lock.
- Insert the emergency key into the slot, and rotate a quarter of a turn to enable or disable the interior door handle as required.

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 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.



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.	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*	UF*	UF*	U*	U*	U*
Rear outboard.	U	U	U	U	U
Rear centre.	U	U	U	U	U

* Always ensure that the passenger airbag has been disabled before using a child restraint in this seating position. The seat back needs to be adjusted to the fully upright position.

- U = Suitable for universal category restraints.
- UF = Suitable for Forward-facing universal category restraints.

RECOMMENDED CHILD SEATS

Child size/age	Recommended seat
Groups 0 and 0+	Britax Cosy-Tot/Römer Baby Safe
Group I	Britax/Römer Duo
Group II and III	Britax Evolva 2/3 Ultra

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 CHILD SEAT POSITIONS

Mass group as shown on child restraint	Size classes	Fixtures	Rear outboard seats
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 Cosy-Tot 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.

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.



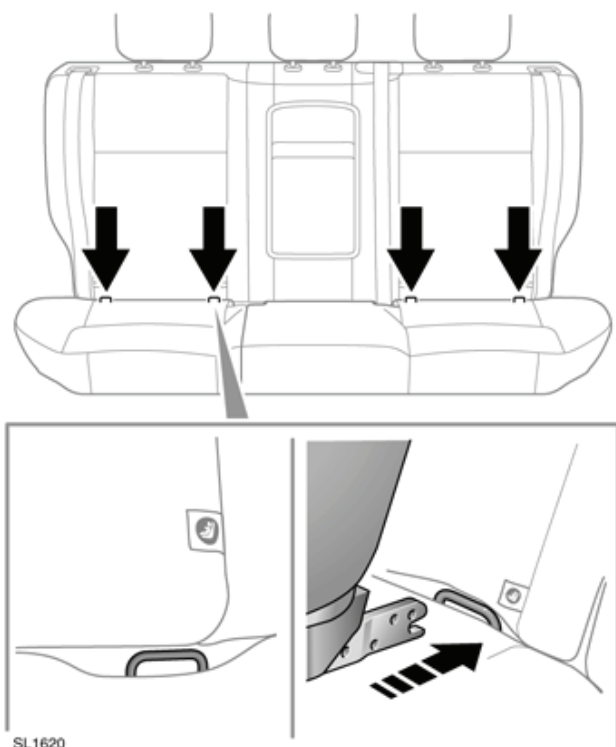
If the restraint is not correctly anchored, there is a significant risk of injury to the child in the event of a collision or emergency braking.

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



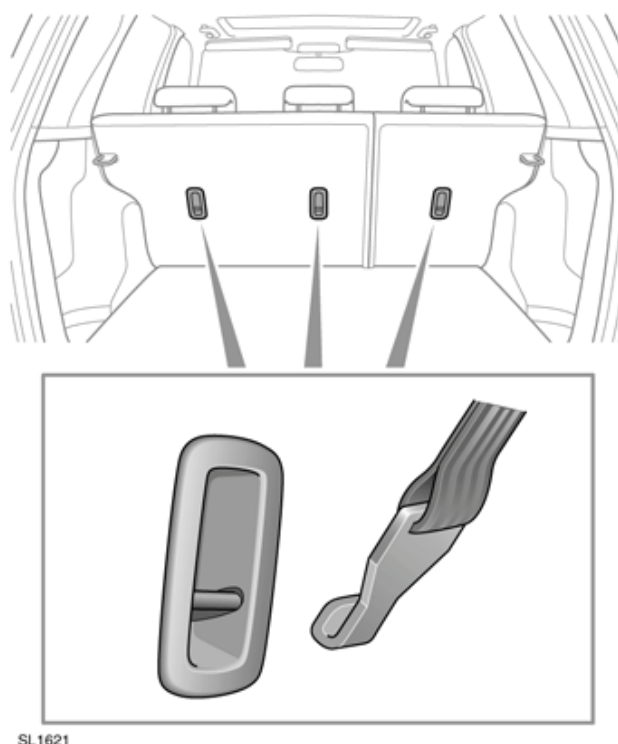
To install an ISOFIX child seat:-

1. Raise or remove the head restraint.
2. Lift the velcro flap to expose the ISOFIX locking mechanism.
3. Slide the child seat into the locking mechanism.
4. 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: ISOFIX child restraints are only fitted to the second row of seats.

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

TETHER ANCHORAGE POINTS



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 anchorage points on the back of the second row seat frames. These should be used to attach straps from child seats or restraint systems.

Note: A tether anchorage is provided for the centre seat position. Do not use this anchor position with an ISOFIX child seat.

ATTACHING TETHER STRAPS

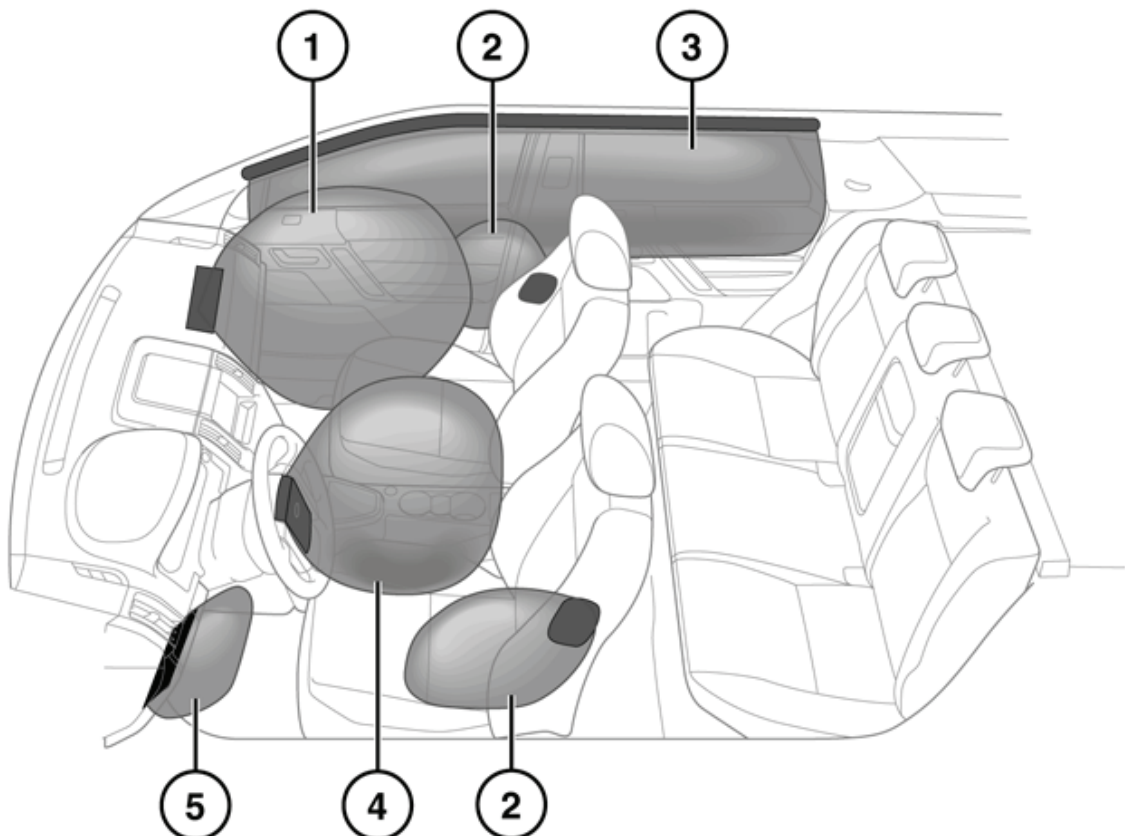
1. Install the child restraint securely in one of the rear seating positions.
2. Pass the tether strap over the seat back and beneath the head restraint.

3. 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 correct way (see illustration).
4. Tighten the tether strap according to the manufacturer's instructions.

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, and adjust the seat belt to suit.

AIRBAG SUPPLEMENTARY RESTRAINT SYSTEM (SRS)



SJ1011

1. Passenger front airbag.
2. Side airbags.
3. Main curtain airbag.
4. Driver's front airbag.
5. Knee bolster 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.

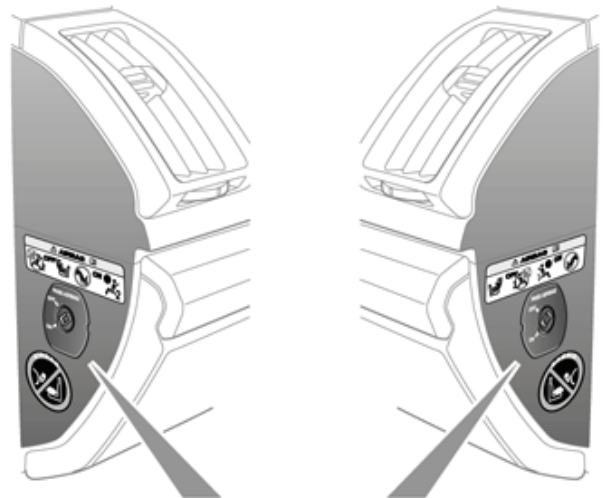
Note: The airbags and SRS are not designed to operate as a result of:

- 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.**




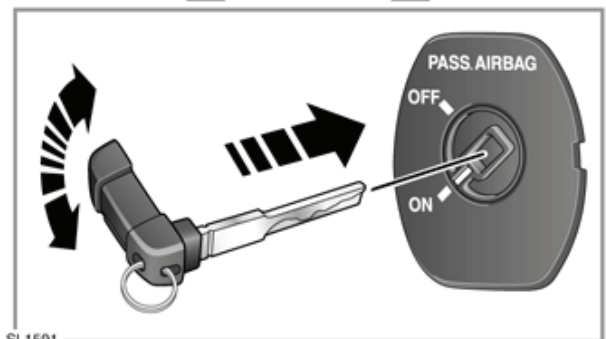
DISABLING THE PASSENGER AIRBAG

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

 **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.**

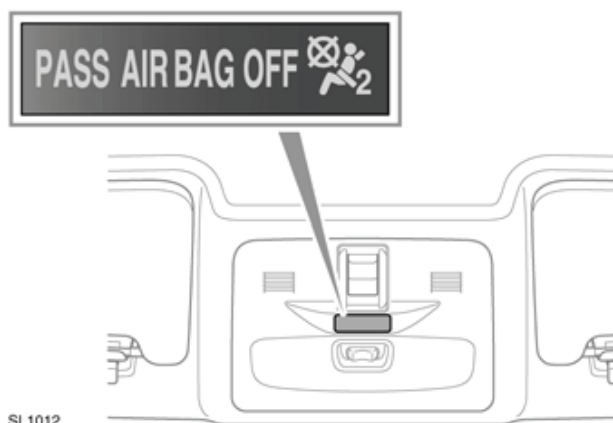
 **Do not fit a child restraint to the front passenger seat if the SRS warning light illuminates continuously with the ignition on.**




To disable the passenger airbag:-

1. Remove the emergency key blade from the remote control.
2. Insert the end of the emergency key blade into the slot in the switch and rotate the switch to the off position.

 **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.**



SL1012

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

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.*

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.

SIDE AND CURTAIN AIRBAGS

Note: *Curtain airbags are not fitted to the commercial variant.*

Side and curtain airbags are designed to offer increased protection for the torso and head in a side impact. The curtain airbags deflate at a slower rate than the front or side airbags, 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.



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

AIRBAG WARNING LAMP



The airbag warning indicator 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 indicator fails to illuminate when the ignition is turned on.
- The warning indicator fails to extinguish within 6 seconds of the ignition being turned on.
- The warning indicator 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.

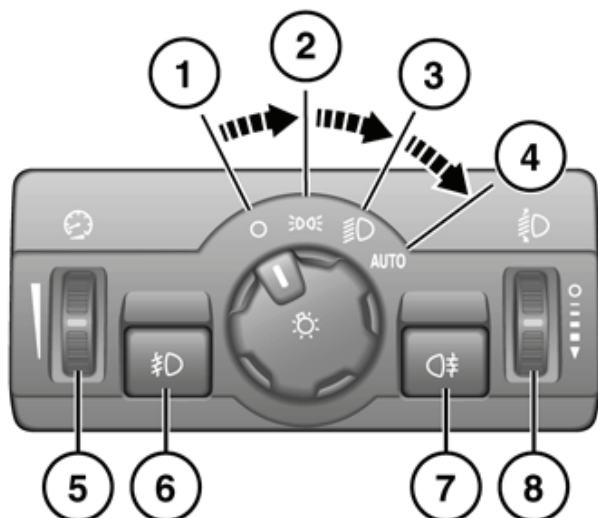


Do not use any electrical test equipment or devices in the vicinity of SRS components or wiring. Doing so may cause the system to trigger, or render the system inoperative.

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.

LIGHTING CONTROLS



SL1013

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.

5. Dimmer control.
6. Front fog lamps on/off.

When the front fog lamps are on, the front fog lamp warning indicator will illuminate.

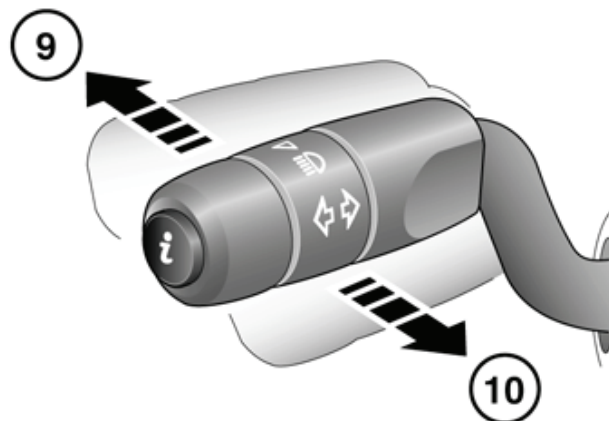
7. Rear fog lamps on/off.

When the rear fog lamps are on, the rear fog lamp warning indicator will illuminate.

8. Halogen lamps height adjuster.

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

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

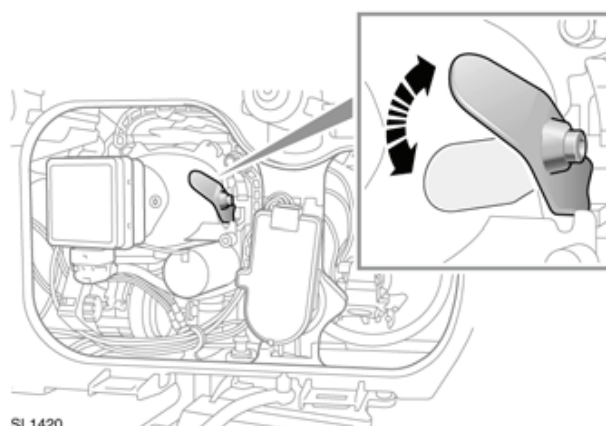


Note: Do not use high beam where it may dazzle other road users.

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 XENON HEADLAMPS FOR DRIVING OVERSEAS



SL1420

Note: The headlamps must be removed in order to change the beam pattern. See **142, REMOVING A HEADLAMP UNIT.**

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.

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

HEADLAMP LEVELLING

Use the headlamp levelling control to account for vehicle loading changes.

Vehicle load	Switch position
Driver only	0
Driver and front seat passenger	0
Driver and passengers in all seats	Rotate down one position from 0.
Maximum gross vehicle weight	Rotate down two positions from 0.
Maximum rear axle load	Rotate down three positions from 0.

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.

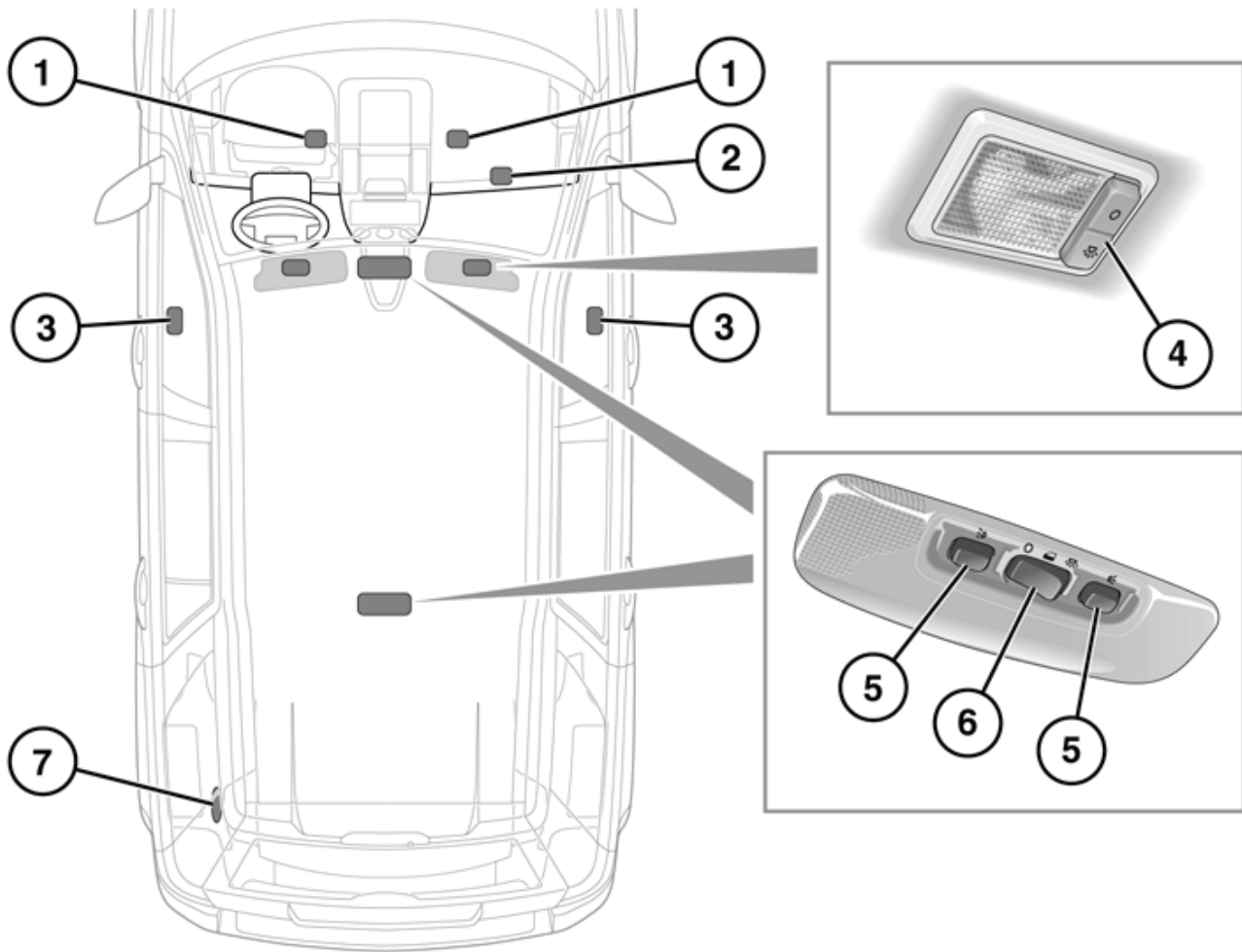
- Daylight running lamps are on.

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 indicator illuminates, contact your Dealer/Authorised Repairer as soon as possible.

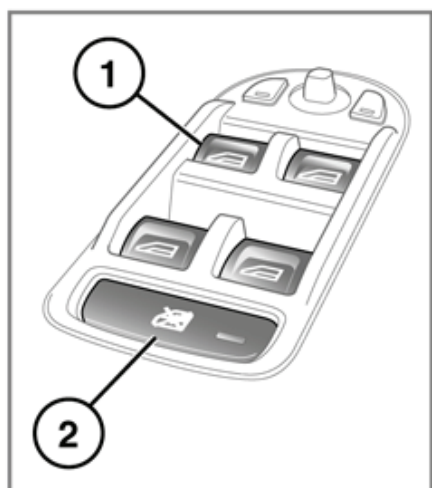
INTERIOR LAMPS



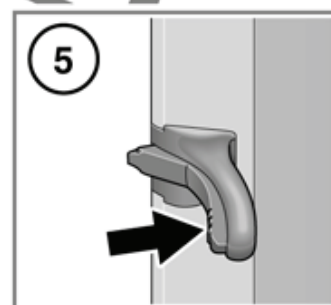
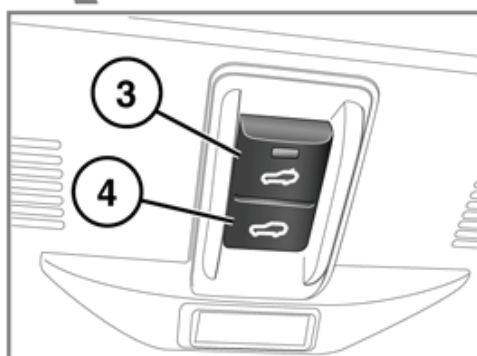
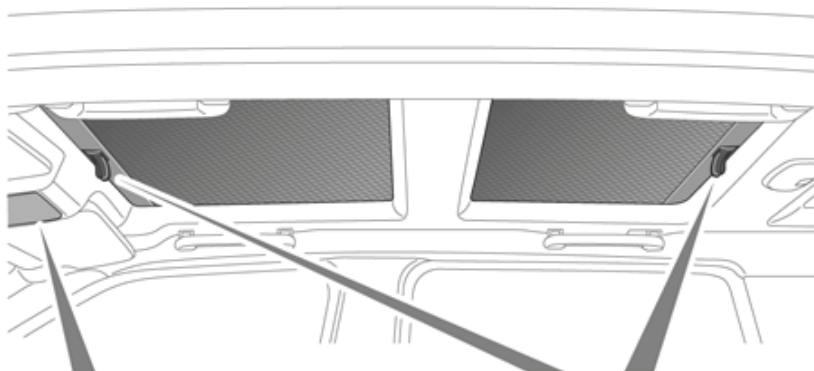
SJ1014

1. Footwell lamps
2. Glovebox lamp
3. Puddle lamps
4. Sun visor lamps.
5. Map light controls (on/off).
6. Main interior lamp control (on/off/Auto).

ELECTRIC WINDOWS



SJ1016



1. Window switches:

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 button.



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.

- With the roof closed, briefly press to tilt the sunroof open.
- With the roof fully open, briefly press to close the roof.

Press the button again to stop movement.

4. Sunroof open/close switch:
- With the roof closed, briefly press to fully open. Press again to stop movement.
 - With the roof tilted open, press and hold to close the roof. Releasing the switch will stop roof movement.

The sunroof will operate for 30 seconds after the ignition is turned off, provided that a front door is not opened.

5. Sun blind:
- To open, push upwards on the textured part of the handle. Then, slide the blind into the panel between the sunroof and the headlining.
 - To close the sun blind, pull across the aperture until it locks in place.

ONE-TOUCH OPERATION

All four windows have one-touch operation. Briefly pull the switch up fully and release; the window will continue to raise until fully closed. Briefly press the switch down fully and release, the window will continue to lower until fully open. Pressing or pulling the switch again will stop the window.

Note: The rear windows will initially open a short distance. This will prevent any unwanted booming or buffeting within the passenger compartment. Pressing the switch fully a second time will open the window fully.

ANTI-TRAP PROTECTION



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.



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.

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 (e.g. ice, etc.).

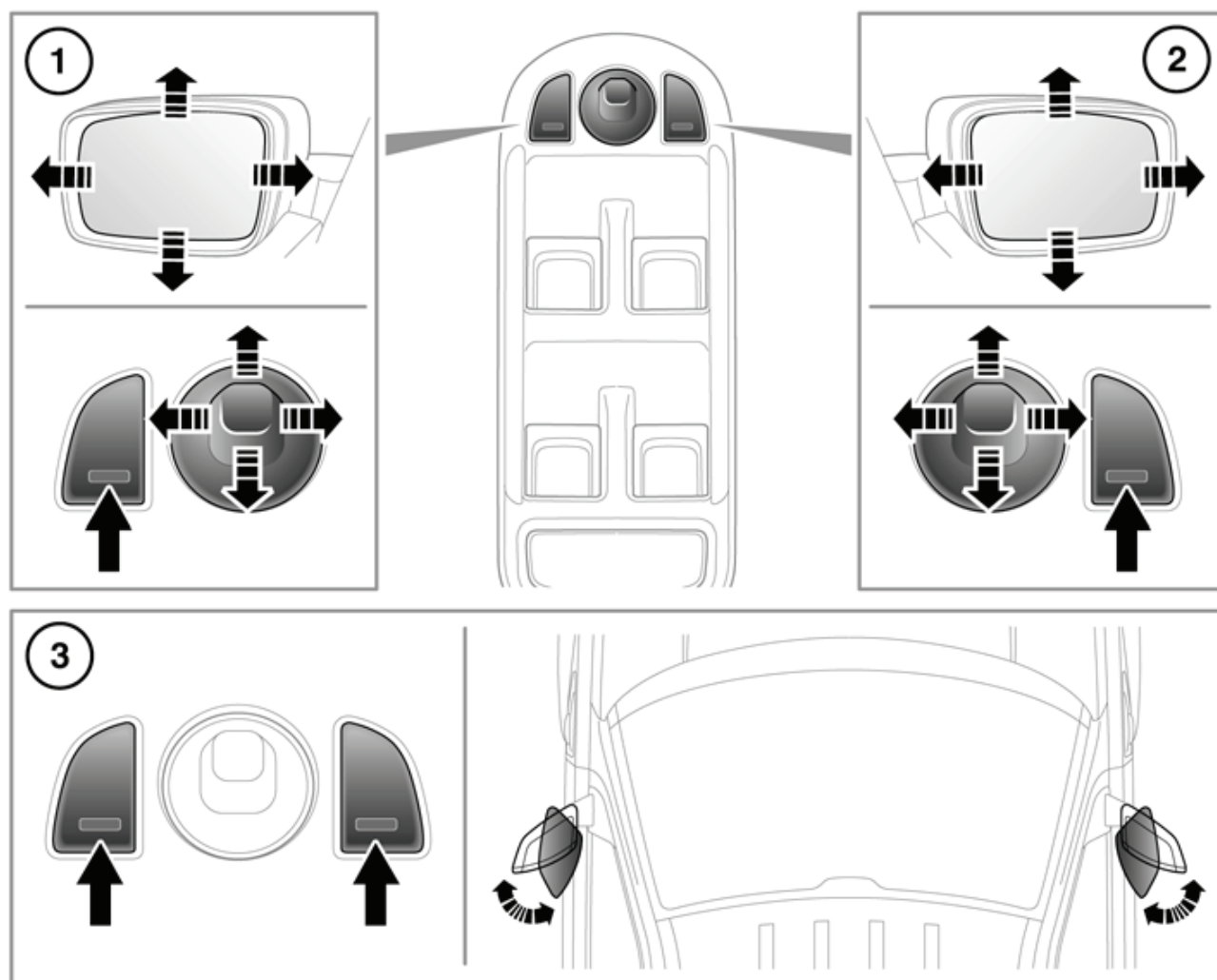
If it is still necessary to raise the window or close the sunroof, the override procedure is as follows:

1. Attempt to close the window/sunroof, anti-trap will prevent closure and lower the window/open the sunroof slightly.
2. Within ten seconds attempt to raise the window/close the sunroof again, anti-trap will prevent closure and lower the window/open the sunroof slightly.
3. Attempt to close the window/sunroof for a third time, this time hold the switch in the close position. Hold until closed.

Note: If this procedure fails to remove the blockage, the window operation may need to be reset. See **150, WINDOW RESET**.

Note: The sunroof anti-trap mechanism works differently and does not require reset if activated. See **150, SUNROOF RESET**.

ELECTRIC EXTERIOR MIRRORS



SL1017

1. Left mirror adjustment.
2. Right mirror adjustment.
3. Press both switches together to fold/unfold the mirrors.

Note: If the mirrors are manually folded or knocked into the folded position accidentally, the mirror head will be loose. To re-engage the mechanism, fold, then unfold the mirrors using the switches.

A thermal cut-out which will temporarily disable the powerfold feature if the switches are operated repeatedly.

Powerfold will only operate if the vehicle is stationary, or travelling at 20 km/h (12 mph) or less.

ADJUSTING

The mirrors can be adjusted and folded when the ignition is on and for up to 5 minutes after the ignition is switched off, provided the driver's door is not opened.

Press the appropriate button to select the mirror to be adjusted (button indicator illuminates), then use the joystick control to adjust the mirror glass.

MIRROR DIP WHEN REVERSING

Selecting reverse gear will cause the door mirrors to 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.

When the gear selector is moved out of reverse, the mirrors will return to their previous position.

Note: *If vehicle speed exceeds 7 km/h (4 mph) in reverse, the mirrors will return to their normal driving position for enhanced visibility.*

AUTOMATIC FOLDING



The mirrors can be configured by your Dealer/Authorised Repairer to automatically fold when the vehicle is locked, and unfold when it is unlocked.

Note: *If the mirrors were folded using the switches, they will not unfold when the vehicle is unlocked.*

GARAGE DOOR TRANSCIVER



Do not use the transceiver with any garage door opener that lacks the safety stop and reverse feature as required by safety standards.



When programming the transceiver to a garage door opener or entry gate, ensure the area is clear. This will prevent potential harm or damage as the gate or garage door will activate during the programme.



This device may suffer from interference if operated in the vicinity of a mobile or fixed station transmitter. This interference is likely to affect the hand-held transmitter as well as the in-car transceiver.

The door transceiver is located in the rear-view mirror. It can be programmed to transmit the radio frequencies of up to three different transmitters, which can be used to operate garage doors, entry gates, home lighting, security systems or other radio frequency operated devices.

Although this section mainly describes the procedures for a garage door opener, it equally applies to the previously mentioned applications.

In some countries, this feature is also known as the HomeLink[®] Universal Transceiver.

For further information, see **37, INFORMATION AND ASSISTANCE.**

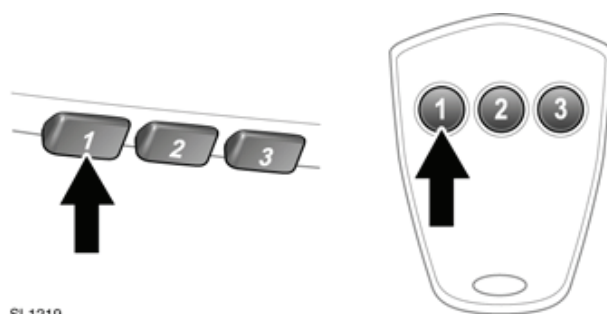
BEFORE PROGRAMMING



When programming a device that may require you to press and re-press the hand-held transmitter (cycle), unplug the device during the cycling process to prevent possible motor failure.

For best results, fit a new battery to the hand-held transmitter of the garage door opener (or other device) before programming. If your garage door opener receiver (located in the garage) is equipped with an antenna, ensure that the antenna is hanging straight down.

PROGRAMMING



With the engine switched off;

1. Ensure that the ignition system is on.
2. Hold the end of the original garage door opener hand-held transmitter 50 to 150 mm (2 to 6 inches) away from the transceiver in the rear-view mirror, keeping the indicator lamp in view.

3. Using both hands, simultaneously press and hold both the chosen transceiver button on the rear-view mirror, as shown above, and the hand-held transmitter button. Keep both buttons pressed. The indicator lamp will flash slowly at first and then change to a fast flash. When the indicator lamp flashes rapidly, release both buttons. The rapid flashing lamp indicates successful programming.
4. If, after 60 seconds, the indicator lamp does not flash rapidly, release both the transceiver and the hand-held transmitter buttons and repeat the procedure starting with Step 2. Position the hand-held transmitter at a different angle and/or distance.
5. Press and hold the programmed garage door opener button and observe the indicator lamp.
 - If the indicator is continuous, programming is complete. Your device should operate when the garage door opener button is pressed and held for approximately 1 to 2 seconds and then released.
 - If the indicator lamp blinks rapidly for two seconds and then illuminates continuously, proceed with the following programming instructions for rolling code device equipment.

TO ERASE ALL PROGRAMMING

For first time programming, ensure that the engine is switched off:

1. Ensure that the ignition is on (but with the engine switched off).
2. Press and hold the two outer buttons on the transceiver in the rear-view mirror. Keep the buttons pressed until the indicator lamp begins to flash (this will take approximately 20 seconds), then release the buttons.

All memories in the garage door opener have now been cleared.

Note: Do not perform this procedure when programming the additional garage door opener buttons.

ROLLING CODE DEVICE EQUIPMENT PROGRAMMING

Note: The assistance of a second person, may make the following steps quicker and easier. Once the button has been pressed there are only 30 seconds in which to complete Step 3.

1. At the garage door opener receiver (motor head unit) in the garage, locate the learn or smart button/switch.
 - The name of the button or switch may vary between manufacturers.
2. Press and release the learn or smart button.
3. Return to the vehicle and firmly press and hold the programmed garage door opener button for two seconds and release.
4. Repeat the press, hold, release sequence three times to complete the programming process.

The garage door opener in the rear-view mirror should now activate the rolling code device.

REPROGRAMMING A SINGLE GARAGE DOOR OPENER BUTTON

To programme a device to a previously programmed button:

1. Press and hold the desired pre-programmed garage door opener button for at least 20 seconds, but no longer than 30 seconds, until the indicator lamp begins to flash.
2. Without releasing the rear-view mirror button, position the hand-held transmitter approximately 50 to 150 mm (2 to 6 inches) away from the transceiver in the rear-view mirror, keeping the indicator lamp in view.
3. Carry out Step 3 of **Programming**.

ENTRY GATE PROGRAMMING

The technology of some entry gates requires you to press and re-press (cycle) the hand-held transmitter button every two seconds during programming.

Continue to press and hold the desired rear-view mirror button while you cycle your hand-held transmitter until the indicator lamp flashes rapidly.

INFORMATION AND ASSISTANCE



It is recommended that when you sell or dispose of the vehicle, the programmed transceiver buttons be erased for security purposes.

For information on the range of available compatible products or accessories, or for assistance, you should contact your Dealer/ Authorised Repairer.

You can also contact the supplier's helpline on **0 0800 0466 354 65**. This toll-free number can be called from anywhere within Europe. No separate country code is required (the first zero is not required when calling from within Germany).

Contact can also be made via the internet. The website address is www.eurohomelink.com.

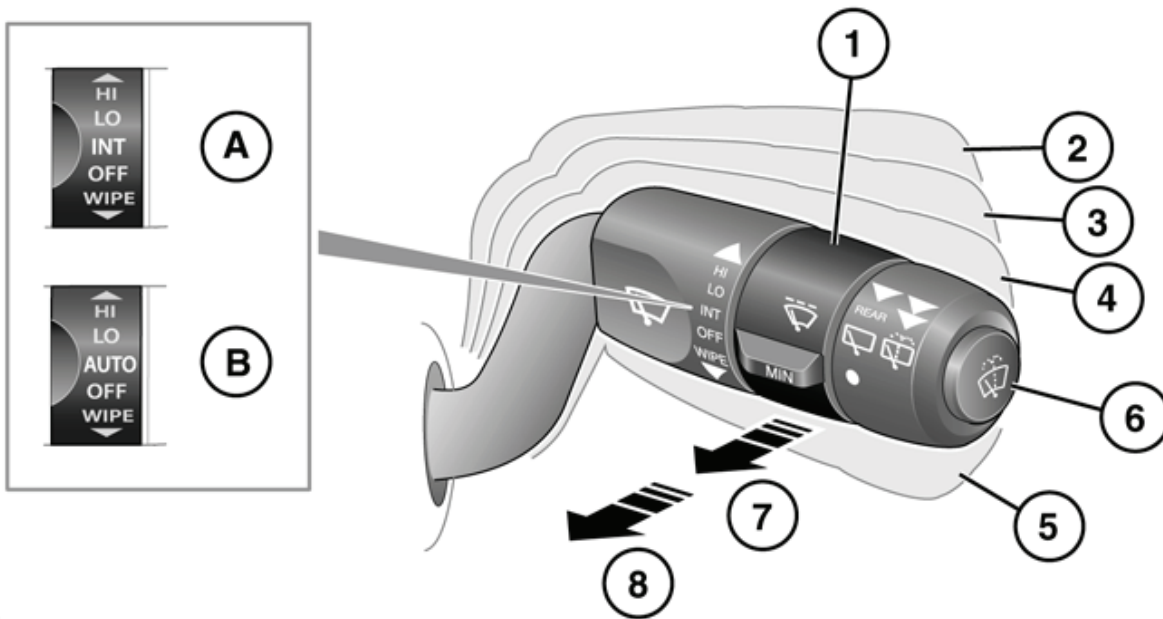
The e-mail address is:

info@eurohomelink.com.

Note: *Keep the original transmitter for future use or programming procedures if, for example, you purchase a new vehicle.*

Note: *The manufacturer is not responsible for any radio or TV interference caused by unauthorised modifications to this equipment. Such modifications could void the user's authority to operate the equipment.*

WINDSCREEN WIPERS



SL1015

1. Rotate the control to adjust Rain sensor sensitivity or, on vehicles not fitted with a rain sensor, to adjust the intermittent variable delay:
 - A. Rain sensor maximum sensitivity. Intermittent wipe minimum delay.
 - B. Rain sensor minimum sensitivity. Intermittent wipe maximum delay.
2. High speed wipe.
3. Low speed wipe.
4. Rain sensor activated wipe/intermittent wipe.
5. Single wipe.
6. Windscreen washers:
Press and release to operate.
Press and hold to operate both the washers and the front wipers. The wipers will operate while the button is pressed and for 2 further wipes after the button is released.
7. Rear wiper.

8. Rear wash/wipe:
Pull to position 8 and hold for as long as the wash is required.
The wipe interval is dependent on vehicle speed.

- ⚠ 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.

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.

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.

RAIN SENSOR



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.

The rain sensor 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 the rain sensor position (4) and adjust the rain sensitivity control (1) as required. When rain sensitive wipers are activated and when sensitivity is increased, a single wipe will operate.

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.

If the tailgate is open, and vehicle speed is above 3 km/h (2 mph) the wiper will operate normally.

HEADLAMP WASHERS

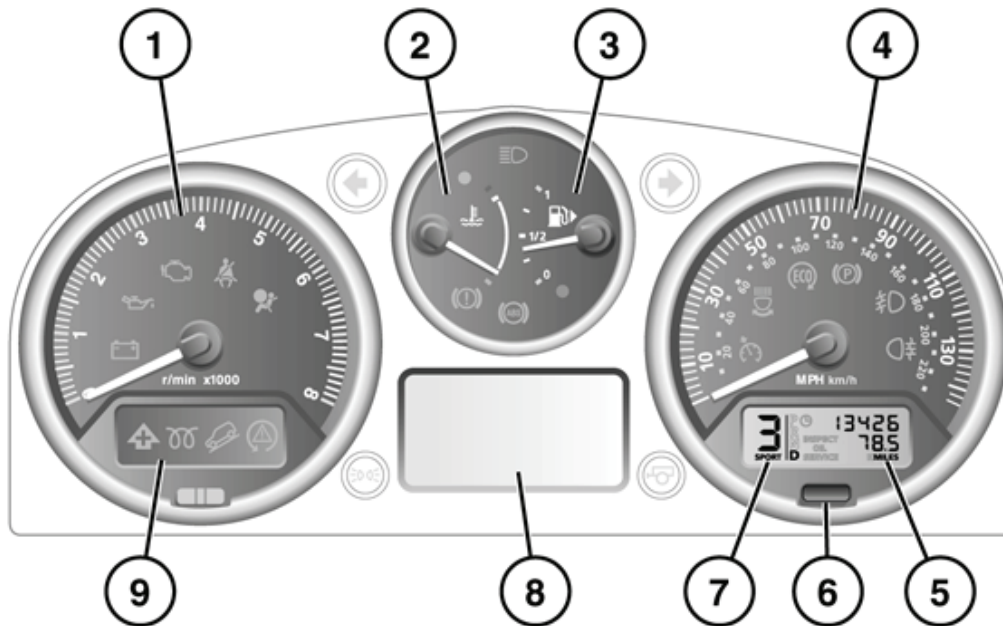
If the headlamps are on, and there is sufficient liquid in the washer reservoir, operating the screen wash will also power-wash the headlamps.

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.*

INSTRUMENT PANEL



SL1448

1. Tachometer.

2. Temperature gauge



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

If the pointer moves onto the red line 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.

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.

3. Fuel gauge.



Never allow the engine to run out of fuel. The resultant misfire can seriously damage the catalytic convertor.

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 range 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.

4. Speedometer.

5. Total distance (odometer) and trip recorder.

6. Trip reset button.

7. Gear selector position display

8. Message centre.

9. Warning indicator panel.

TRIP COMPUTER

A short press (two seconds or less) or a series of short presses of the **i** button will change the trip computer display.

The options available are:-

- Approximate maximum range on the remaining fuel.
- Instantaneous fuel consumption.
- Average fuel consumption.
- Average speed.
- Review active warning messages.
- Blank message screen displaying only the external temperature.
- Trip distance.

To reset the trip values to zero, press and hold the **i** button for two seconds.

To reset the fuel consumption figures to zero, press and hold the **i** button until the display clears.

WARNINGS AND INFORMATION MESSAGES



If a warning message appears take appropriate action immediately. Failure to do so may result in serious damage to the vehicle.

The messages are displayed for twenty seconds when required and also when the ignition is switched on.

If the **i** symbol is displayed there are current warning messages waiting to be reviewed. To do so, press the **i** button repeatedly until the list of messages is displayed. The display will then cycle through the list of messages until the **i** button is pressed again.

WARNING LAMPS AND INDICATORS

RED warning lamps are for primary warnings. A primary warning must be investigated immediately. Seek qualified assistance if necessary.

AMBER 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

Other warning lamps within the instrument panel indicate system status, such as blue for main beam and green for direction indicators, when in operation.

LAMP 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.

GENERAL INFORMATION/WARNING MESSAGE (AMBER)



Illuminates when a general information/warning message is available in the message centre.

LOW OIL PRESSURE (RED)



Illuminates as a bulb check when the ignition is switched on and extinguishes when the engine is started. If the lamp remains on, flashes, or illuminates whilst driving, stop the vehicle as soon as safety permits and switch off the engine immediately. Check and top-up the oil level if necessary. Start the engine: If the lamp remains illuminated, switch the engine off immediately and seek qualified assistance before continuing.

BRAKE SYSTEMS (RED)



Illuminates briefly as a bulb check when the ignition is switched on. If the lamp illuminates whilst driving, suspect low brake fluid level or a fault with the Electronic Brake Distribution (EBD) system.

Stop the vehicle as soon as safety permits and check and top-up the brake fluid, if necessary. If the lamp remains illuminated, seek qualified assistance before continuing.

BRAKE SYSTEMS (AMBER)



Illuminates briefly as a bulb check when the ignition is switched on. If the lamp illuminates after starting the engine or whilst driving, suspect worn brake pads or a fault with the Emergency Brake Assist (EBA) system.

The vehicle can still be driven with care, but seek qualified assistance urgently.

PARKING BRAKE (RED)



Illuminates when the parking brake is correctly applied. If the lamp flashes, a fault has been detected. Seek qualified assistance urgently.

BATTERY CHARGE (RED)



Illuminates as a bulb check when the ignition is switched on and extinguishes when the engine is started.

If the lamp remains on or illuminates whilst 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 should extinguish when the relevant seat belt(s) is buckled.

ENGINE MALFUNCTION (RED)



Illuminates as a bulb check when the ignition is switched on and extinguishes when the engine is started.

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.

DYNAMIC STABILITY CONTROL (DSC) (AMBER)



Illuminates briefly as a bulb check when the ignition is switched on.

If the lamp flashes whilst driving, the DSC system is active.

If the lamp illuminates continuously whilst 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 (DSC) OFF (AMBER)



Illuminates when DSC is switched off.

ANTI-LOCK BRAKING SYSTEM (ABS) (AMBER)



Illuminates briefly as a bulb check when the ignition is switched on.

If the lamp remains on or illuminates whilst driving, there is a fault with the ABS system. Drive with care, avoiding heavy brake application and seek qualified assistance urgently.

AIRBAG (AMBER)



Illuminates as a bulb check when the ignition is switched on and extinguishes when the engine is started.

If the lamp illuminates when driving, there is a fault with the airbag system. Seek qualified assistance as soon as possible.

ADAPTIVE FRONT LIGHTING SYSTEM (AMBER)



Illuminates when there is a system fault. The headlamps will still operate, but without this feature operating correctly. Seek qualified assistance as soon as possible.

SIDE LAMPS (GREEN)



Illuminates when the side lights are switched on.

REAR FOG LAMPS (AMBER)



Illuminates when the rear fog lamps are switched on.

Warning lamps

FRONT FOG LAMPS (GREEN)



Illuminates when the front fog lamps are switched on.

TYRE PRESSURE MONITORING SYSTEM (TPMS) (YELLOW)



Illuminates when 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.

HIGH BEAM (BLUE)



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

DIRECTION INDICATORS (GREEN)



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

HILL DESCENT CONTROL (HDC) INFORMATION



Illuminates continuously when HDC is selected and HDC operating conditions are met - i.e. vehicle speed below 50 km/h (30 mph).

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.

CRUISE CONTROL (GREEN)



Illuminates when cruise control is active.

DIESEL GLOW PLUGS (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.

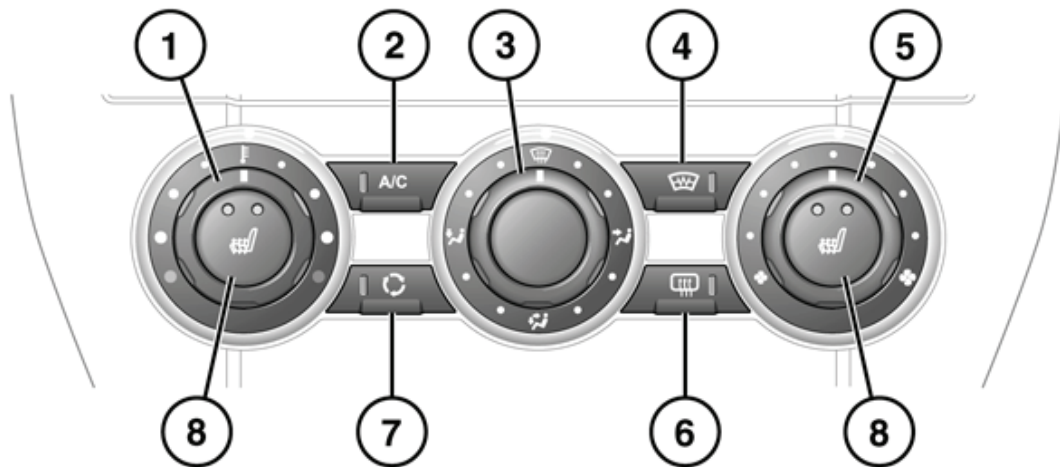
TRAILER DIRECTION INDICATORS (GREEN)



Illuminates as a bulb check 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.

MANUAL CLIMATE CONTROL



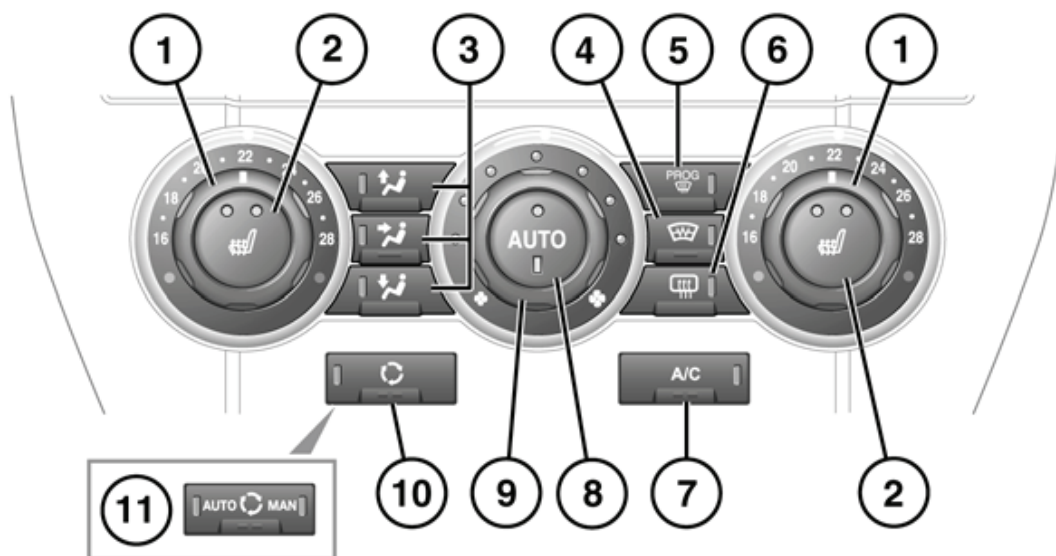
SJ1026

1. Temperature control, rotate to adjust.
2. Air conditioning. Press to switch on/off.
3. Air distribution, rotate to direct air flow.
4. Heated front screen, press to switch on/off.
5. Blower speed, rotate to adjust air flow speed through the vents. Current speed selection is indicated by an illuminated LED.
6. Heated rear screen, press to switch on/off.
7. Recirculation, press to switch on/off.
8. Seat heaters. Press once to turn on high, twice to turn on low, and a third time to turn off.

Note: The amber tell-tale indicators 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.

AUTOMATIC CLIMATE CONTROL



SJ1027

1. Left and right temperature controls, rotate either control to adjust.
2. Seat heaters. Press once to turn on high, twice to turn on low, and a third time to turn off.
3. Air distribution. Press the relevant button to set the air distribution to the required points. It is possible to select more than one option by pressing the required combination of buttons.
4. Maximum defrost program, press to switch on/off.
5. Heated front screen, press to switch on/off.
6. Heated rear screen, press to switch on/off.
7. Air conditioning, press to switch on/off.
8. AUTO mode, press to select fully automatic operation.
9. Blower speed, rotate to adjust air flow speed through the vents. In manual mode current speed selection is indicated by an illuminated LED.
10. Recirculation, press to switch on/off.
11. Air quality sensing, press repeatedly to toggle between:-
 - Automatic - System automatically selects fresh air, or recirculation, depending on the levels of humidity and pollution present.
 - Manual - System locked to recirculation.
 - Off - System locked to fresh air intake.

Note: The amber tell-tale 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.

AUTO MODE (AUTOMATIC SYSTEMS)

Press **AUTO** to select automatic operation.

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

There are two tell-tale indicators on the Auto button. The round indicator represents the blower control and the rectangular indicator the air distribution control. In fully automatic mode both indicators illuminate, the round indicator will extinguish if the blower speed is changed manually and the rectangular indicator extinguishes if the air distribution is changed manually.

To resume fully automatic operation at any time, press the **AUTO** button.

Recommended mode

Select **AUTO** as the normal operating mode. This will help prevent window misting and odours from the climate control system.

TEMPERATURE SELECTION (AUTOMATIC SYSTEM)

On the automatic system, it is not possible to achieve a temperature differential of more than 4°C (7°F) between the left and right.

RECIRCULATION

When selected, the air is recirculated inside the vehicle. This helps to maintain a high or low temperature and is useful for preventing fumes from entering the vehicle.

MANUAL AND AUTOMATIC SYSTEMS

A single brief press will select recirculation for four minutes. The system will then revert to fresh air intake to prevent misting.

Pressing and holding the button will select recirculation until it is switched off. This state is indicated by three flashes of the tell-tale lamp in the switch.

Note: *Prolonged use at low temperatures may cause the windows to mist.*

AUTOMATIC SYSTEM WITH POLLUTION AND HUMIDITY SENSING

To change options press the switch repeatedly until the required option is selected.

1. Auto LED illuminated. In this mode the system automatically selects fresh and recirculated air dependent on pollution and cabin humidity.
2. Manual LED illuminated. Recirculation mode is selected permanently.
3. Both LEDs off. The system is in fresh air mode.

MAXIMUM DEFROST PROGRAM

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

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

SEAT HEATERS

Press the relevant button to operate the required seat heater at high level. Both LEDs will illuminate.

Press a second time to heat the seat at a lower level. One LED will extinguish.

Press a third time to switch off.

HEATED WINDSCREENS

Press button 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.

Heating and ventilation

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

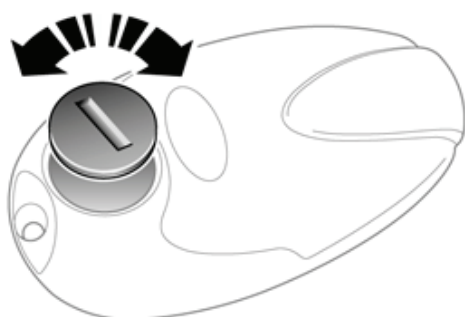
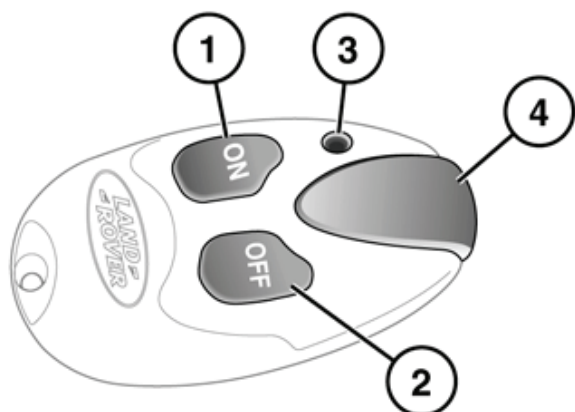
HEATED MIRRORS

The heated external rear view mirrors operate automatically according to the external temperature and windscreen wiper operation.

AUXILIARY HEATER

Your vehicle may be fitted with an auxiliary heater which is powered by fuel drawn from the vehicle's tank. The heater only operates at low ambient temperatures.

When the heater is operating, exhaust fumes from the heater may be visible exiting from under the front of the vehicle. This is normal and is not a cause for concern.



SL1074

The remote control has an approximate range of 100 m. There is no need to point the antenna at the vehicle.

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

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



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 whilst the vehicle is in an enclosed space. Doing so can cause a build up of highly toxic fumes which may cause unconsciousness or death.

REPLACING THE BATTERIES

With the back of the remote control 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 and rotate the cover to lock it closed.

SWITCHING ON

Press and hold the **ON** button for approximately two seconds. The LED will illuminate to confirm that an automatic heating program has been initiated. The LED flashes once every 2 seconds to indicate that the heater is active.

The heating program will continue for 30 minutes, when it will switch off automatically to prevent the vehicle battery from discharging. The program also turns off automatically if the engine is started.

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

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

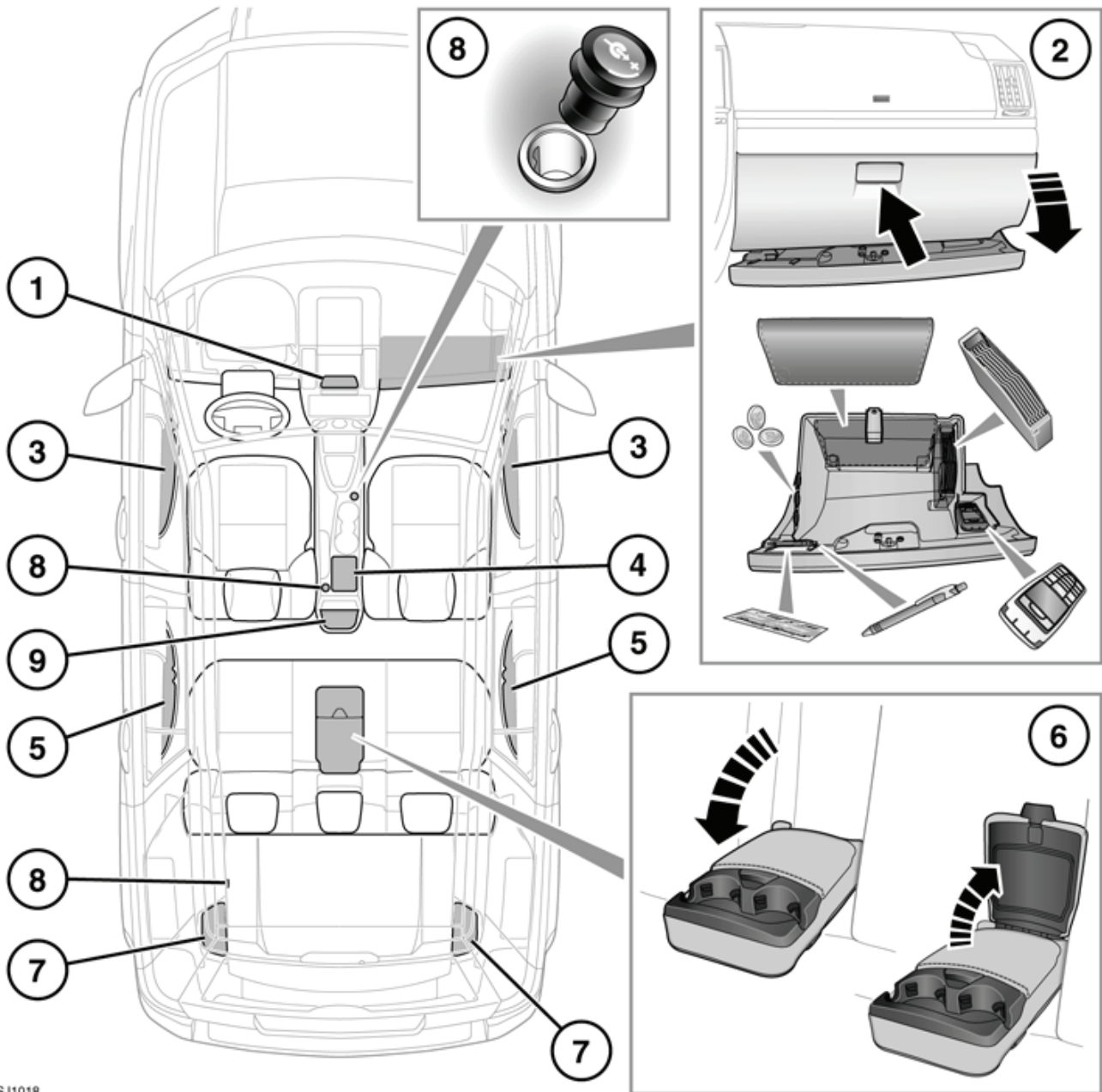
The LED indicator, contained in the remote control, signals various states and conditions for the heater as follows:

- Illuminates green for 2 seconds when the **ON** button is pressed, to indicate that heater operation has been requested.
- Illuminates red for 2 seconds when the **OFF** button is pressed, to indicate that the heater has stopped.
- Flashes green or red for 2 seconds when the on or off buttons are pressed, to indicate that the signal was not received.
- Illuminates orange for 2 seconds before showing green or red, to indicate that the remote battery is low.
- Flashes orange for 5 seconds to indicate that the signal was not received and the remote battery should be replaced.

ADDITIONAL REMOTES

Additional remote controls can be programmed to operate the heater. A maximum of 3 remotes can be programmed to each vehicle. You should contact your Land Rover Dealer to purchase additional remotes and have them programmed to your vehicle.

CUP HOLDERS AND STORAGE



SJ1018



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. Storage tray.
2. Glovebox.
3. Front door bottle holders.
4. Storage tray.
5. Rear door bottle holders.

6. Rear compartment and cup holders.
7. Additional storage.
8. Power sockets.
9. Centre console storage.




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.

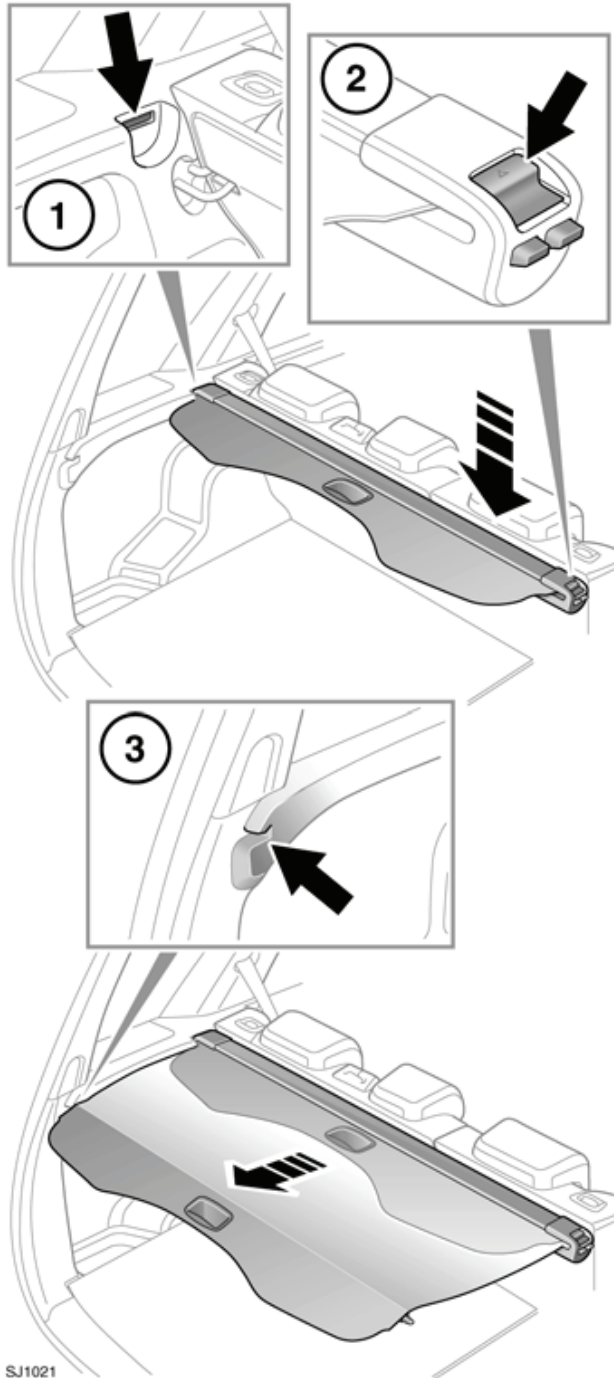


The engine should be running when using accessories for long periods. Failure to do so can discharge the battery.

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

REAR LOADSPACE COVER

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



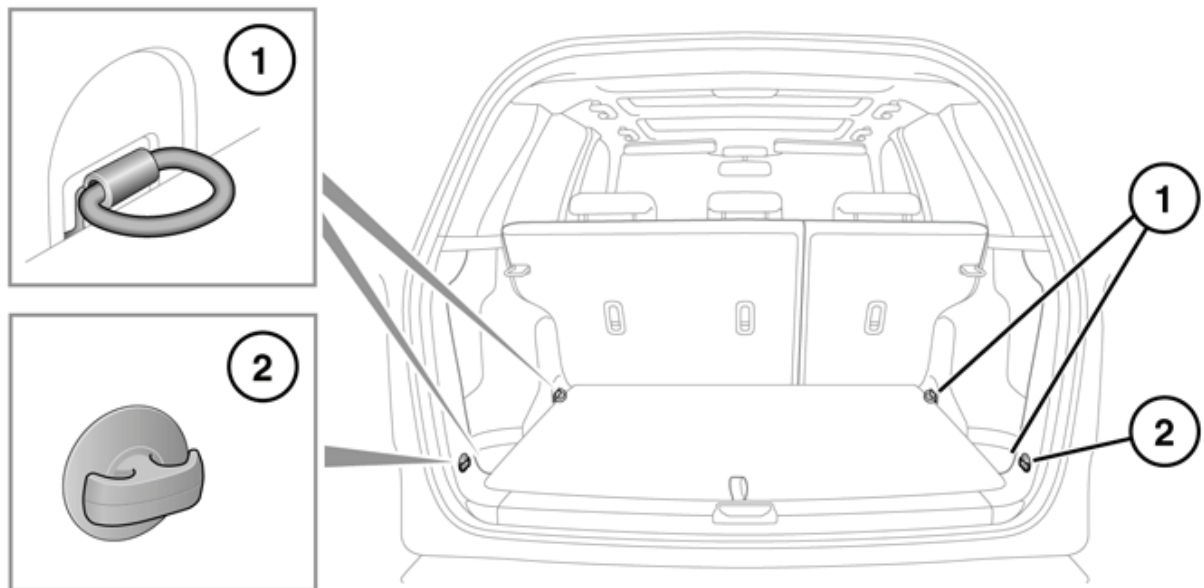
2. Lower the right-hand end into position by pulling back the release button.
Ensure that the release button returns to the locked position when the cover is in position.
3. Pull the luggage cover blind towards the rear of the vehicle. Engage the end pegs into the recesses provided in the load space side trims.

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

1. Insert the location peg on the left-hand end of the luggage cover into the slot.

SJ1021

LUGGAGE ANCHOR POINTS



SL1022



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

1. Load securing rings.
 - To assist in safely securing large items of luggage, four fixing points are located in the rear loadspace floor.
2. Bag hooks.
 - The bag hooks should only be used to secure light items such as shopping bags.

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



When removing or replacing the loadspace floor ensure that children and pets are kept at a safe distance to avoid injury.

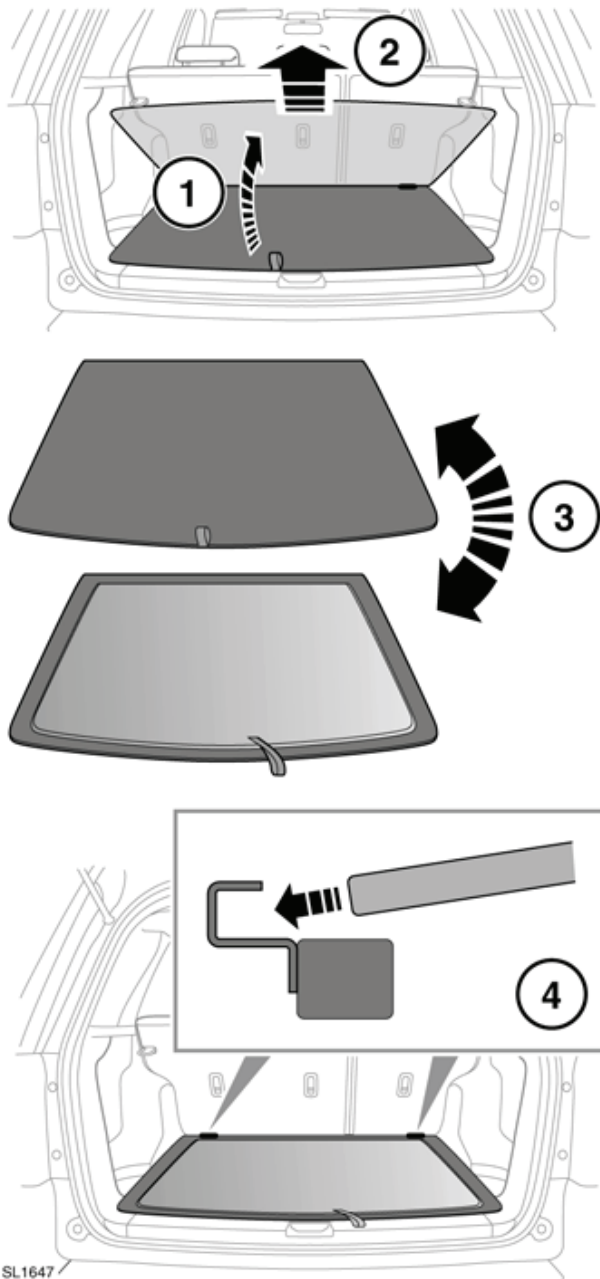
The loadspace floor is reversible to allow a choice of carpeted or hard surfaces to be made.

LOADSPACE FLOOR



When removing or replacing the loadspace floor, take care to avoid getting your hands or fingers trapped between the floor panel and the vehicle.

Load carrying



To reverse the loadspace floor:-

1. Raise the floor panel.
2. Pull the panel towards the rear of the vehicle and remove it.
3. Turn the required floor finish upwards.
4. Insert the forward edge of the panel into the retaining channel and lower it into position.

RECOMMENDED TOWING WEIGHTS

Maximum permissible towing weights	On-road	Off-road
Unbraked trailers	750 kg (1650 lbs)	750 kg (1650 lbs)
Trailers with overrun brakes	2000 kg (4400 lbs)*	750 kg (1650 lbs)
Nose weight	150 kg (330 lbs)	-
Nose weight - Australia only	350 kg (770 lb)	-


* For diesel vehicles in Algeria, Egypt, India, Libya, Morocco, Pakistan and Tunisia, the maximum permissible towing weight for a trailer with overrun brakes is 1500 kg (3307 lbs).

See **162, WEIGHTS**, for details of the Gross Vehicle Weight (GVW), Gross train weight, axle weights and maximum payload.

Note: When towing, the maximum permissible Gross Vehicle Weight can be increased by a maximum of 100 kg (220 lbs) provided that the road speed is limited to 100 km/h (60 mph).

Note: When calculating rear axle loading, remember that the trailer nose weight, the load in the vehicle's luggage area, weight on the roof rack, and the weight of rear seat passengers must all be added together.

TRAILER ELECTRICAL CONNECTION

 Only connect approved electrical circuits, which are in good condition, to the trailer socket.



When a trailer electrical connection is made and the vehicle's direction indicators are used, the trailer warning indicator will flash in time with the direction indicators.

TOWING A TRAILER



Never exceed the maximum weights for either the vehicle, or the trailer. Doing so can cause accelerated wear and damage to the vehicle. It can also adversely affect vehicle stability and braking which in turn can lead to loss of control and increased braking distance, resulting in a rollover or crash.



To preserve handling and stability, only fit Land Rover approved towing accessories.



Never use towing eyes or lashing points to tow a trailer. They have not been designed for this purpose and doing so may cause them to fail, resulting in injury or death.

LEVELLING

To maintain vehicle stability, it is essential that the trailer is loaded so that it remains parallel to the ground. This is particularly important when towing twin axled trailers.

ESSENTIAL TOWING CHECKS

- When calculating the laden weight of the trailer, remember to include the weight of the trailer, plus the weight of the load.
- If the load can be divided between the vehicle and trailer, loading more weight into the vehicle will generally improve stability. Do not exceed the vehicle's weight limits.
- Increase rear tyre pressures of the towing vehicle to those for maximum vehicle loading conditions.
- Ensure trailer tyre pressures are set to trailer manufacturer's recommendations.
- If the vehicle is loaded to maximum Gross Vehicle Weight (GVW) the nose weight is limited to 150 kg (330 lbs). See **162, WEIGHTS**.
- If it is necessary to increase the nose weight up to a maximum of 250 kg (550 lbs), the vehicle load should be reduced accordingly. This ensures that the GVW and maximum rear axle load are not exceeded.
- Ensure that a suitable breakaway cable or secondary coupling is used. Refer to the trailer manufacturer's instructions for guidance.
- Ensure that the tow ball is secure.
- Check the operation of all trailer lights.



Do not loop the breakaway cable over the tow ball as it may slide off.

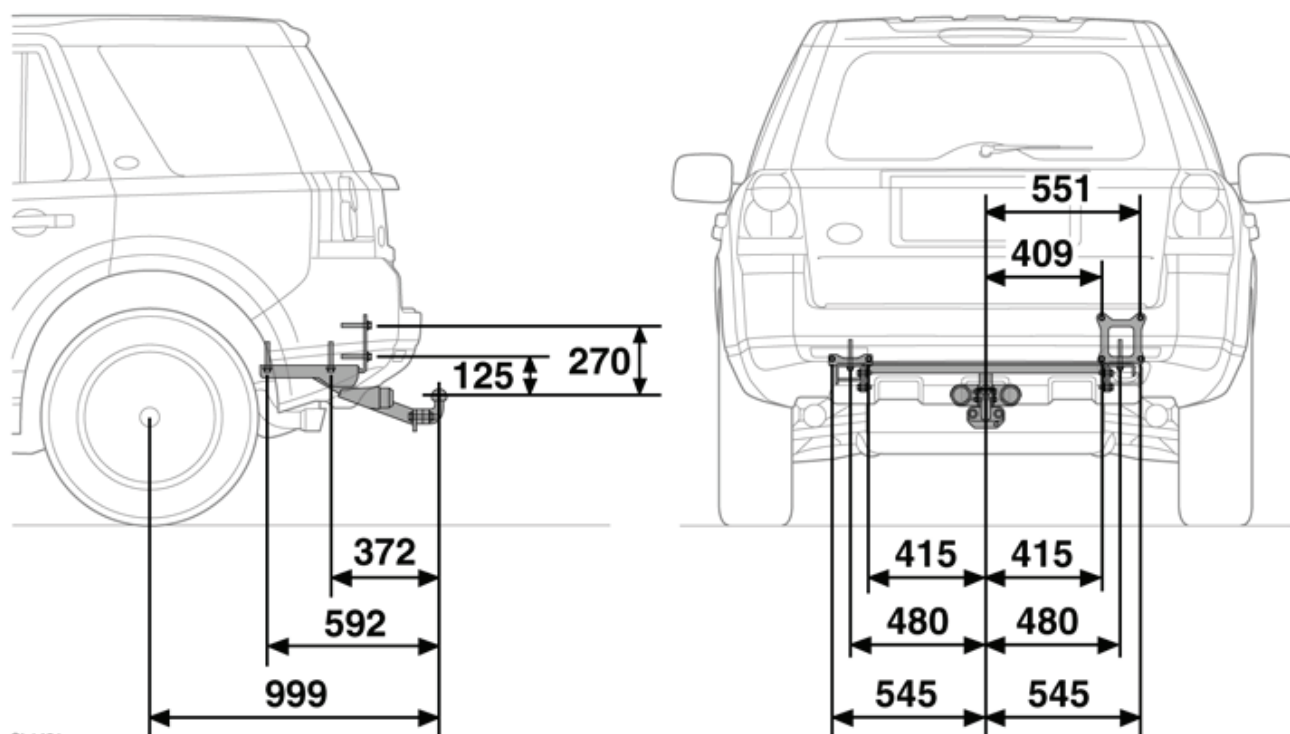


Do not exceed the Gross Vehicle Weight (GVW), maximum rear axle weight, maximum trailer weight, or nose weight. Exceeding any of these limits could cause instability and loss of control.

Australia only:

- **Tyre pressures** - Increase rear pressures of towing vehicle to those for maximum Gross Vehicle Weight conditions.
- **Nose weight** - Must be a minimum of 7% of gross caravan/trailer weight, up to a maximum of 350 kg (722 lb).

TOW BAR MOUNTING POINTS DIMENSIONS



SL1421

Starting the engine

SWITCHING ON THE IGNITION

To turn on the ignition without starting the engine. Do not depress the brake/clutch pedal, press the start/stop button and hold until the warning indicators illuminate, then release the button.

BATTERY CHARGING - RED



Illuminates as a bulb check when the ignition is turned on and extinguishes once the engine is running. If it remains on, or illuminates whilst driving, a fault with the battery charging system is indicated. Seek qualified assistance urgently.

LOW OIL PRESSURE - RED



Illuminates as a bulb check when the ignition is turned on and extinguishes when the engine is started. If the indicator remains on, flashes on and off, or illuminates whilst driving, stop the vehicle as soon as safety permits and switch off the engine immediately. Always check the oil level when this indicator illuminates. If the oil level is ok, seek qualified assistance before driving.

ENGINE STARTING



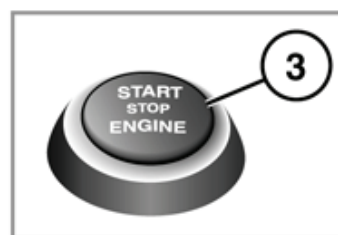
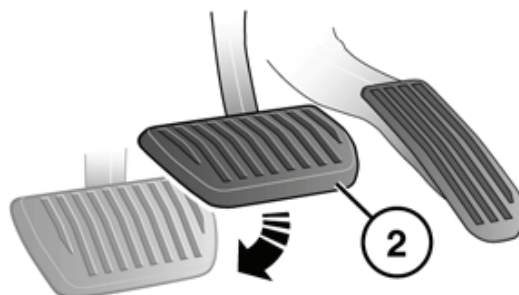
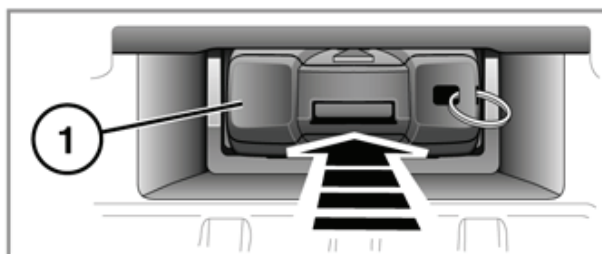
Never start the engine, or leave it running, when the vehicle is in an enclosed space. Exhaust gasses are poisonous and can cause unconsciousness and death if inhaled.



If the engine fails to start, do not continue cranking as this will discharge the battery. It may also damage the catalytic convertor due to unburnt fuel passing through the exhaust.

Note: For diesel vehicles, the delay period before cranking begins will be longer in low ambient temperatures due to extended glow plug operation. During this extended delay the clutch pedal (manual transmissions) or brake pedal (automatic transmissions) must remain depressed. **CRANKING WILL COMMENCE AFTER GLOW PERIOD** is displayed on the message centre.

STARTING: AUTOMATIC TRANSMISSION

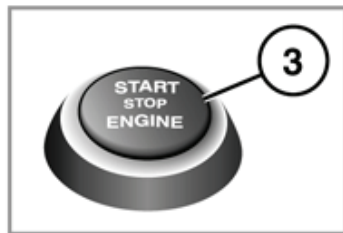
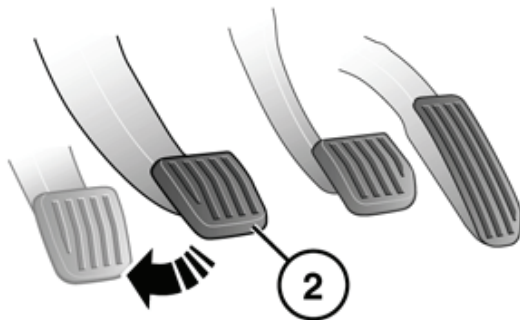
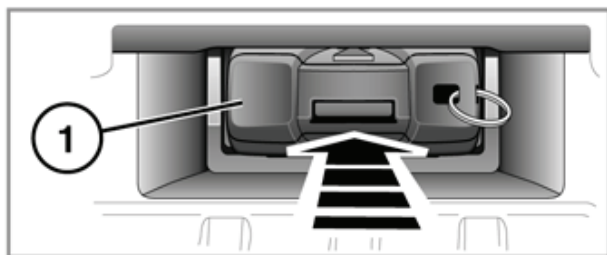


SL1449

1. Insert the remote control into the docking port (buttons facing upwards) and press to latch.
2. Press the brake pedal.

3. With the brake pedal firmly depressed, briefly press and release the start button. The engine will crank automatically until it starts. For diesel engined vehicles there may be a delay whilst the glow plugs warm up, then the engine will crank automatically until it starts.

STARTING: MANUAL TRANSMISSION



SL1592

1. Insert the remote control into the docking port (buttons facing upwards) and press to latch.
2. Press the clutch pedal.
3. With the clutch pedal fully depressed, briefly press and release the start button. There may be a delay whilst the glow plugs warm up, then the engine will crank automatically until it starts.

STOPPING THE ENGINE

Before stopping the engine, ensure that the vehicle is parked safely with the park brake applied.

1. Select P (Park) for automatic transmission, or Neutral for manual transmissions.
2. Press the Start/Stop button.
3. Press the remote to unlatch it, then remove it from the docking port by gripping the sides. Do not pull the remote out using the keyring attachment as this will only remove the emergency key.

Note: If the engine is switched off by the stop/start system, the remote control can be removed as previously described above in point 2.

GLOW PLUG OPERATION



The glow plug warning indicator will remain illuminated while the glow plugs are operating.

STOP/START (MANUAL TRANSMISSION ONLY)

The Stop/Start system has been designed to improve fuel efficiency. The system is automatically activated when the ignition is switched on.



When the vehicle comes to a stop, neutral is selected and the clutch is fully released, the engine automatically switches off.

When the clutch is depressed prior to selecting a gear, the engine automatically restarts.

CONDITIONS PREVENTING AUTOMATIC ENGINE STOP

The engine will not automatically stop if:-

- the external temperature is below approximately 0°C (32°F)
- the external temperature is above approximately 35°C (95°F)
- engine has not reached operating temperature
- driver's seat belt is not fastened
- driver's door is not fully closed
- the driver's foot is on either the clutch or accelerator pedals
- climate control system demand is high
- battery charge is low
- the DPF is regenerating
- HDC or a Terrain Response special program are selected

When the engine has been stopped by the stop/start system, the Eco icon will illuminate. See **STOP/START (MANUAL TRANSMISSION ONLY)** (page 59).

Note: The stop/start system is disabled when a trailer electrical connection is made.

CONDITIONS CAUSING AUTOMATIC ENGINE RESTART

The engine will automatically start if:-

- climate control system demand increases
- the vehicle's speed reaches approximately 3 km/h (2 mph)
- HDC or a Terrain Response special program are selected
- battery charge becomes low
- brake vacuum has been reduced (eg using the brake pedal repeatedly with the engine off)

DISABLING STOP/START



To switch the system off (preventing automatic stop/start) press the **ECO** button. The LED indicator will extinguish to confirm that the system is off.

Note: The engine will restart automatically if the switch is pressed to disable the system, whilst an automatic engine stop is in progress.

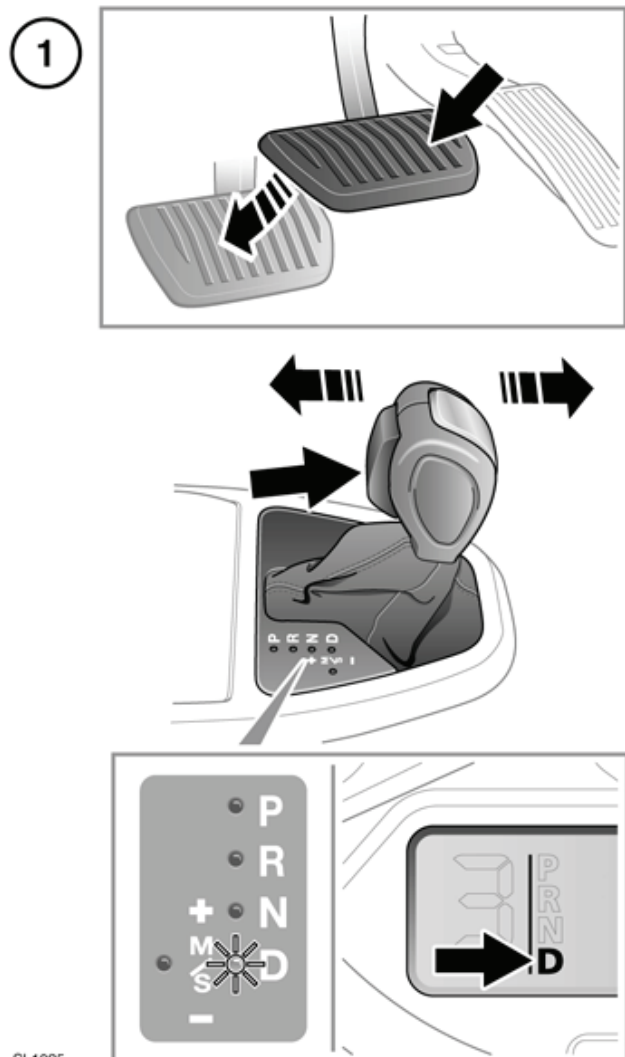
If the LED indicator fails to illuminate at start up, a system fault may be present. Contact your Land Rover dealer for assistance.

STALL RECOVERY

In the event that the engine stalls, it can be restarted by fully depressing the clutch pedal.

Note: Automatic stall restart will only operate once. If the engine is stalled a second time the engine must be restarted normally.

AUTOMATIC TRANSMISSION

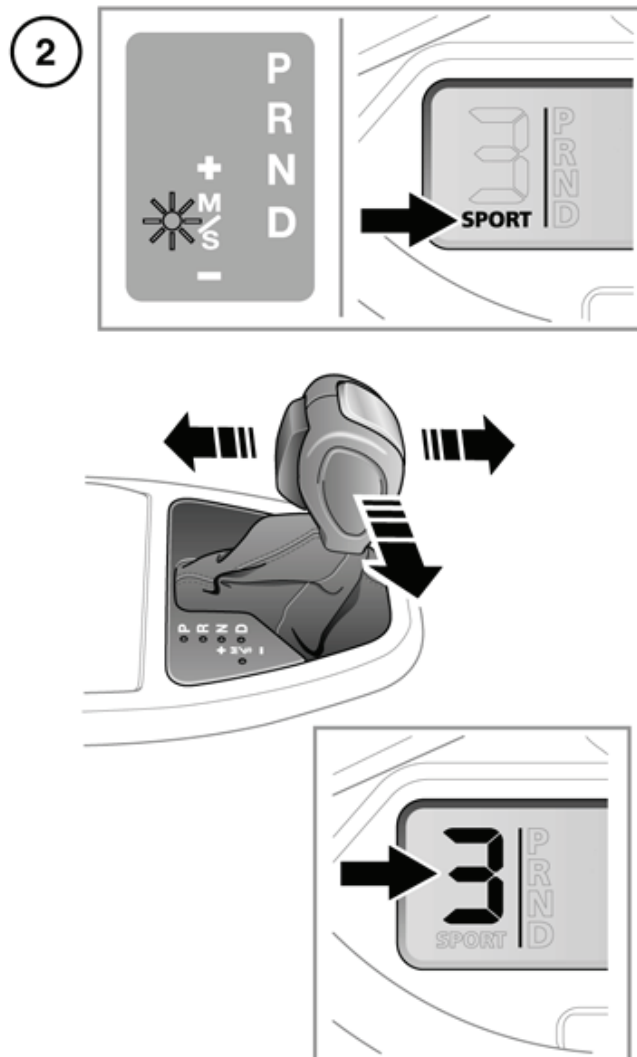


SL1025

1. To select Drive (**D**) when the vehicle is stationary, apply the foot brake and press the gear selector release button.

Note: If pressure is applied to the selector lever before the foot brake is applied, any gear selected may not be available, irrespective of the lever position. In this situation, remove pressure from the selector lever, ensure that the foot brake is applied and select the required gear.

2. To select sport mode, move the gear selector to the left while in **D**. **SPORT** will be displayed in the message centre.









To use CommandShift™, first select sport mode, then move the selector lever forward to move up a gear, and back to move down gear.

To return to automatic mode move the selector lever back to the **D** position. The **D** on the selector display will illuminate to confirm that automatic mode has been selected.



Park (P) 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**) whilst the vehicle is in motion.
-  Never select Reverse (**R**) whilst the vehicle is in forward motion.
-  Never select a forward gear whilst the vehicle is in rearward motion.
-  Do not rev the engine or allow it to run above normal idle speed, while selecting **D** or **R**, or whilst the vehicle is stationary with any gear selected.
-  Do not allow the vehicle to remain stationary for any length of time, with a gear selected and the engine running. Always select **P** or **N** if the engine is to idle for a prolonged period.

COMMANDSHIFT™

If CommandShift™ is selected, 1st gear must be used for moving off from stationary.

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

TRANSMISSION 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.*


HILL DESCENT

With Hill Descent Control (HDC) selected in either automatic, Sport or CommandShift modes, a low gear will be selected and maintained to provide maximum engine braking. Should the gear lever be moved to **D** from the sport/CommandShift position, the selected gear will be retained until the descent is completed. See **77, HDC OPERATION**.

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.

MANUAL TRANSMISSION

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

GEAR SHIFT INDICATOR




The gear shift indicator illuminates briefly at the recommended gear change point (upshift).


The shift indicator will not illuminate whilst Cruise control is active and not being overridden by pressing the throttle pedal.

Note: *This warning indicator is only a guide. It remains the responsibility of the driver to operate the vehicle in an appropriate manner for the prevailing conditions.*


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.

 **Your vehicle has a higher ground clearance and hence, a higher centre of gravity than ordinary passenger cars, to enable the vehicle to perform in a wide variety of off-road applications. An advantage of the higher ground clearance is a better view of the road allowing you to anticipate problems.**

 **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 pack illuminates briefly when the ignition is turned on.

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

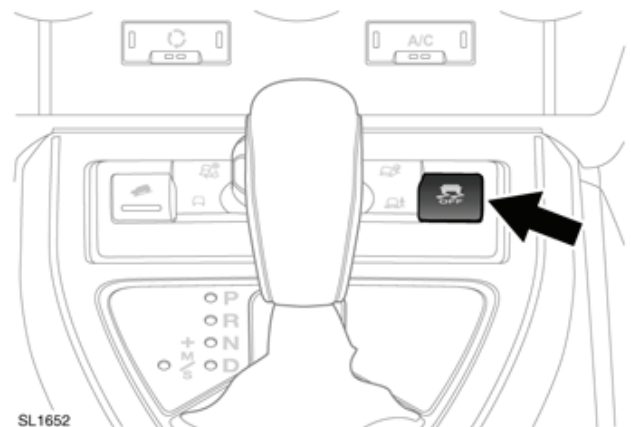
A fault with the DSC system is indicated by the DSC warning lamp illuminating and an associated warning message. The vehicle can still be driven, but without DSC assistance. Seek qualified assistance as soon as possible.

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 deep rut.
- Pulling away in deep snow, or a loose surface.
- Driving through deep sand or mud.



SL1652

 To disable DSC, press and briefly hold the DSC OFF switch on the fascia (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.
- Start the engine.

- Select a new Terrain response special program.

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.

DSC SYSTEM FAULT

If a fault is detected, the DSC warning lamp will flash continuously when DSC has not been deactivated. The vehicle can still be driven, but seek qualified assistance as soon as possible.

OPERATION



Do not rest your foot on the brake pedal whilst 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 where possible and seek qualified assistance as soon as possible.

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.

PARKING BRAKE

Note: The front seat armrest may obstruct the operation of the parking brake for some drivers. If this is the case, lift the seat armrest before applying the parking brake.

1. Firmly apply the foot brake.
2. Pull the parking brake lever upwards until the parking brake is applied.



When the parking brake is applied the warning indicator will illuminate.

Note: Do not press the parking brake release button when applying the parking brake.

RELEASING THE PARKING BRAKE



Ensure that the foot brake is applied fully before releasing the parking brake.

1. Firmly apply the foot brake.
2. Press the parking brake lever release button.
3. With the button pressed, lower the parking brake lever to its lowest position.



When the parking brake is released the warning indicator will extinguish.

TYRE PRESSURE MONITORING (TPM) SYSTEM



Tyre pressure monitoring system (TPM system) is not a substitute for manually checking tyre pressures. The TPM system only provides a low tyre pressure warning and does not re-inflate the tyres.



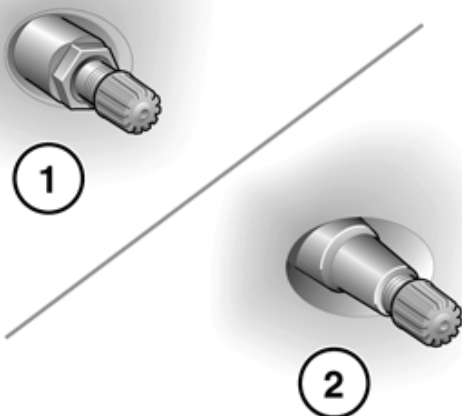
The TPM system cannot monitor damage to the tyre. Regularly check the condition of your tyres, especially if the vehicle is driven off-road



When inflating tyres, take care not to bend or damage the TPM system valves. Always ensure correct alignment of the inflation head to the valve system.

Note: Different types of tyre may affect the performance of the TPM system. Always replace tyres in accordance with recommendations.

The tyre pressure monitoring system constantly monitors the tyre pressure in each wheel, including the full size spare. Temporary use spare tyres (when fitted) are not monitored.



SL1302

Wheels fitted with a TPM system can be identified by the appearance of the external metal lock nut and valve (1). All Land Rover non-TPM system wheels have a rubber valve fitted (2).

Tyre pressures should be checked regularly when cold and adjusted as necessary. The presence of the TPM system does not remove the need to do this to ensure vehicle safety.



The tyre pressure warning lamp illuminates when one or more of your tyres is significantly under-inflated. You should stop and check your tyres as soon as possible and inflate them to the recommended pressure for the vehicle loading condition.

The TPM system also monitors the full size spare tyre pressure. If the pressure for the spare tyre is incorrect, the message **CHECK SPARE TYRE PRESSURE** is displayed, accompanied by illumination of the warning lamp.

TPM SYSTEM FULL SIZE SPARE AND TYRE CHANGE

The system will automatically recognise any changes in wheel positions. The vehicle must be stationary for 15 minutes during the wheel and tyre change (see **180, CHANGING A ROAD WHEEL**), to ensure that the system can detect the change. After driving above 25 km/h (18 mph), any deflation warning should clear within a few minutes.

If the temporary spare wheel is fitted, the system will automatically recognise the change in wheel positions. After approximately 10 minutes of driving above 25 km/h (18 mph), the message **FRONT (REAR) RIGHT(LEFT) TYRE PRESSURE NOT MONITORED** will be displayed, accompanied by illumination of the warning lamp.

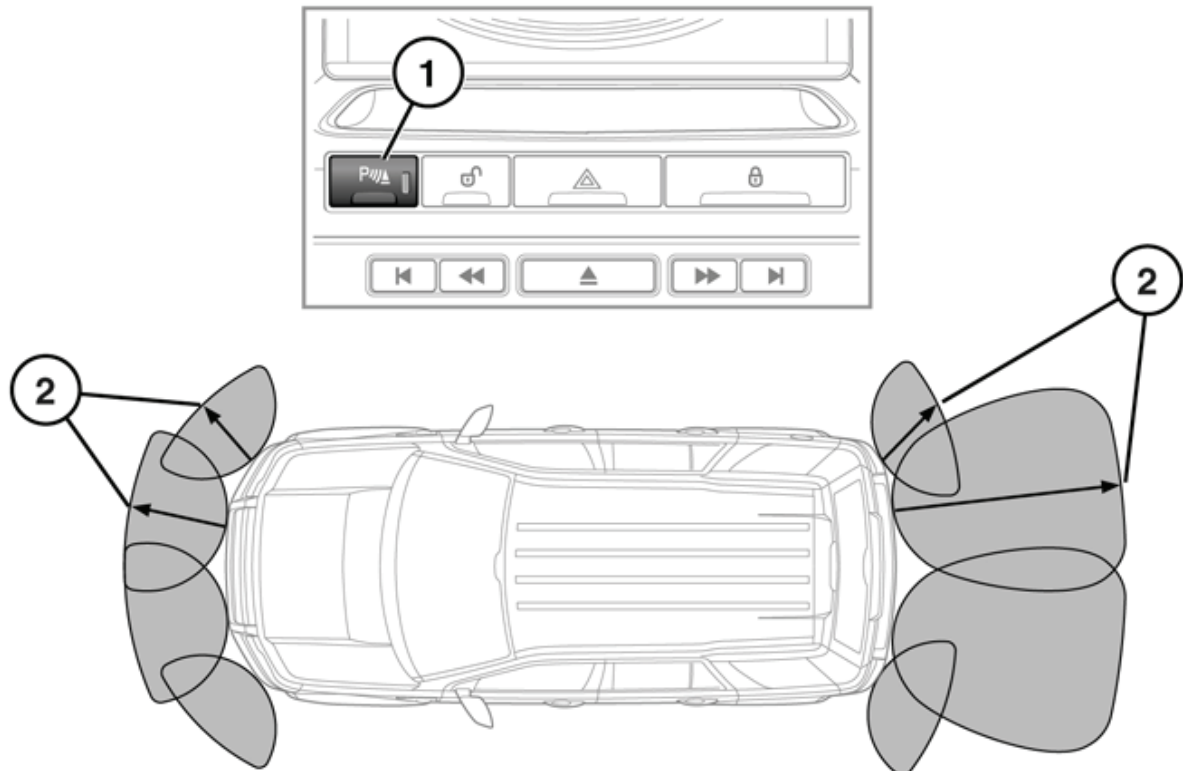
Tyre pressure monitoring system

The warning lamp will first flash and then illuminate continuously. Extended use of the temporary spare wheel will trigger the message **TYRE PRESSURE MONITORING SYSTEM FAULT**.

This TPM system display sequence will be activated at every ignition cycle, until the temporary spare wheel is replaced by a full-size road wheel.

Note: *If in use, always replace the temporary spare wheel before having a TPM system fault investigated.*

USING THE PARKING AID



SL1417



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



Parking aid sensors may not detect some obstructions.

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

To manually activate the front sensors press the parking aid button, a short confirmation tone will be heard, and the switch indicator will illuminate.

To turn off the system when active, press the button. 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 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.

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



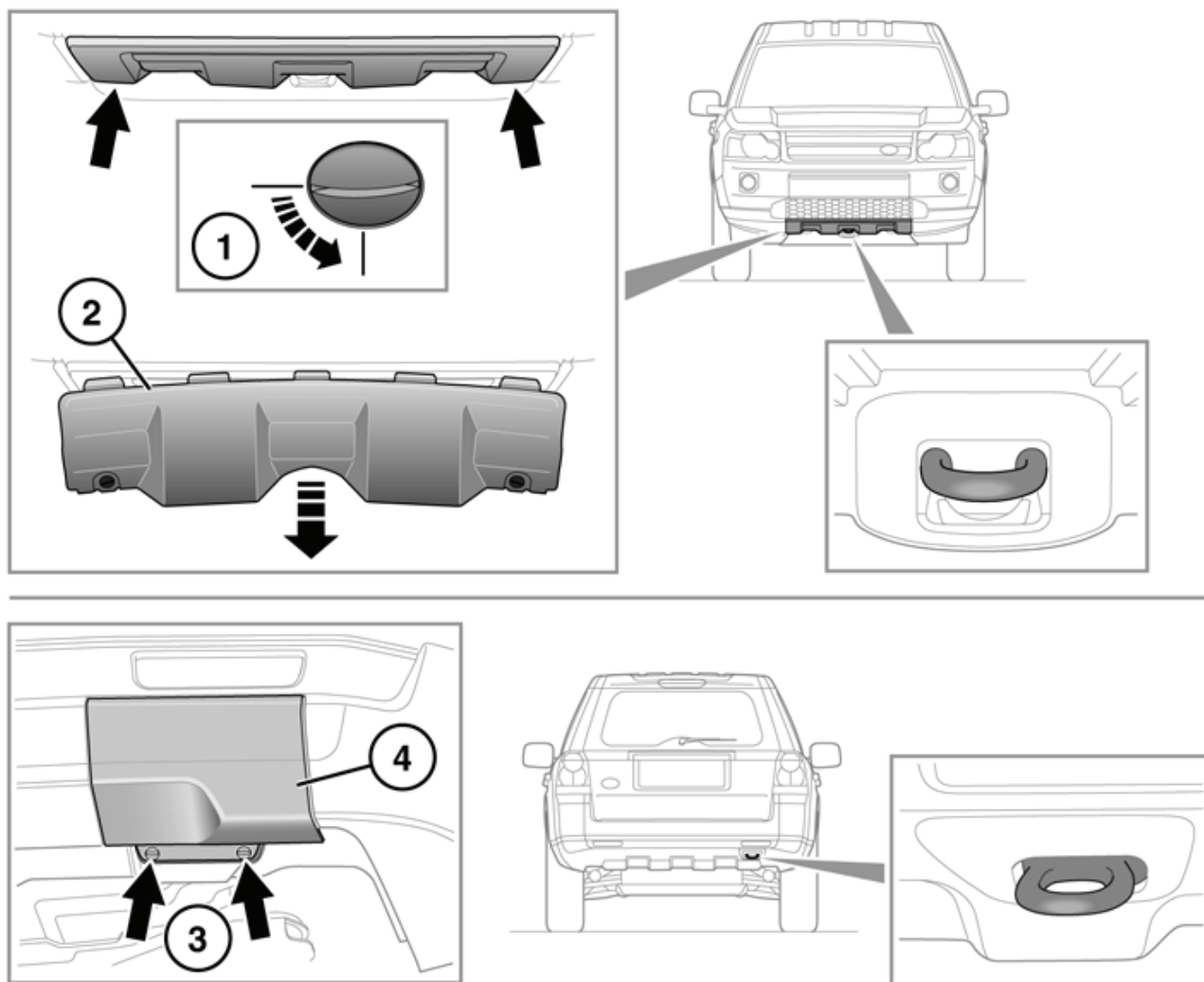
When washing the vehicle, do not aim high pressure water jets directly at the sensors. Do not use abrasive materials or hard/sharp objects to clean the sensors. Only use approved vehicle shampoo.

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.

TOWING POINTS



SL1425

⚠ 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 and rear towing eye covers before driving off-road, to prevent damage or loss.

The front towing point is located behind a removable cover in the lower front bumper.

1. Using a suitable tool rotate each of the fasteners 90 degrees anticlockwise.

2. To remove the cover, lower the top edge and then pull the cover forward.
To refit, offer up the cover and ensure the two lugs at the bottom edge engage with the holes in the body panel.
3. Using a suitable tool rotate each of the fasteners 90 degrees anticlockwise.
4. Remove the cover.

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 THE VEHICLE ON FOUR WHEELS



Do not undock the remote control 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 a greatly increased stopping distance.



Only tow the vehicle in a forward direction with all four wheels on the ground. Towing in a reverse direction with two wheels on the ground will cause serious damage to the transmission.



The vehicle should only be towed for a maximum of 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.

The following procedure must be carried out carefully to prevent damage to the vehicle:

1. Secure the towing attachment from the recovery vehicle to the front towing point.
2. With the parking brake applied, switch on the ignition.
3. Apply the foot brake and place the gear lever into neutral.
4. Switch off the ignition and leave the remote control docked.
5. The ignition may be switched on to allow operation of indicators, brake lamps etc.
6. Release the parking brake before towing the vehicle.



Leaving the ignition switched on for extended periods will drain the vehicle battery.

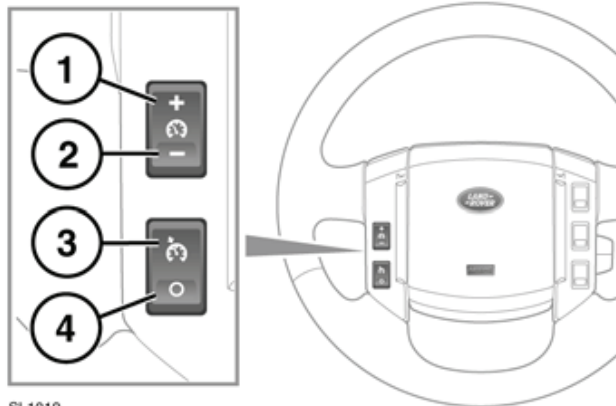
AFTER TOWING ON FOUR WHEELS

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 undock the remote control.
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.

USING CRUISE CONTROL



SL1019

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

Note: Cruise control is not available when using Hill Descent Control or when a Terrain Response programs Mud-Ruts or Sand have been selected.

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

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

ENGAGING CRUISE CONTROL

! 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 only be engaged when the appropriate gear has been selected at speeds in excess of 30 km/h (18 mph).

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



The cruise control warning indicator will illuminate to confirm cruise control is operational. Speed can be increased using the accelerator pedal as normal. 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.

SUSPENDING CRUISE CONTROL

Cruise control can be suspended by a single press of the cancel switch (4).

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

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

Note: The set speed will not be erased by pressing the cancel switch. The set speed can only be erased by switching off the ignition.

DECREASING THE CRUISE SPEED

To reduce cruising speed, press and hold the - switch (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 2 km/h (1 mph), by briefly pressing the - switch (2).

INCREASING THE CRUISE SPEED

Press and hold the + switch (1) to increase speed. 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 2 km/h (1 mph), by briefly pressing the + switch (1).

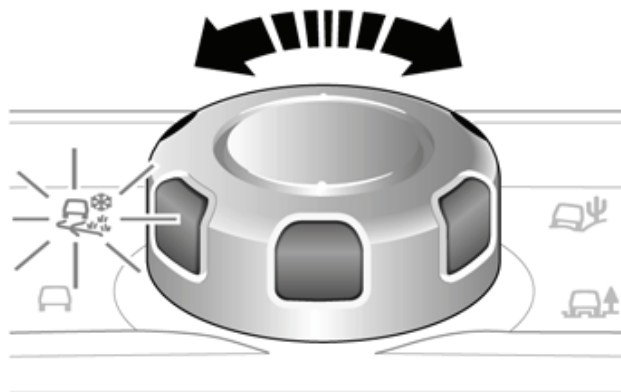
Speed can also be increased using the accelerator. When the desired speed is reached press the + switch to set and maintain the new speed.

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.

- ⚠ Before travelling over rough terrain it is advisable to remove the aerodynamic trim panels which are fitted in front of the front wheels. If you are in any doubt as to the location or removal of the panels contact your Land Rover dealer.

TERRAIN RESPONSE OPERATION



SL1418

A rotary control just in front of the gear lever is used to select the required special 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.

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.

DRIVER OVERRIDE OPTIONS

Hill Descent Control (HDC) is automatically engaged for some terrain response programs. If required, HDC 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.

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

SYSTEM DIFFICULTIES



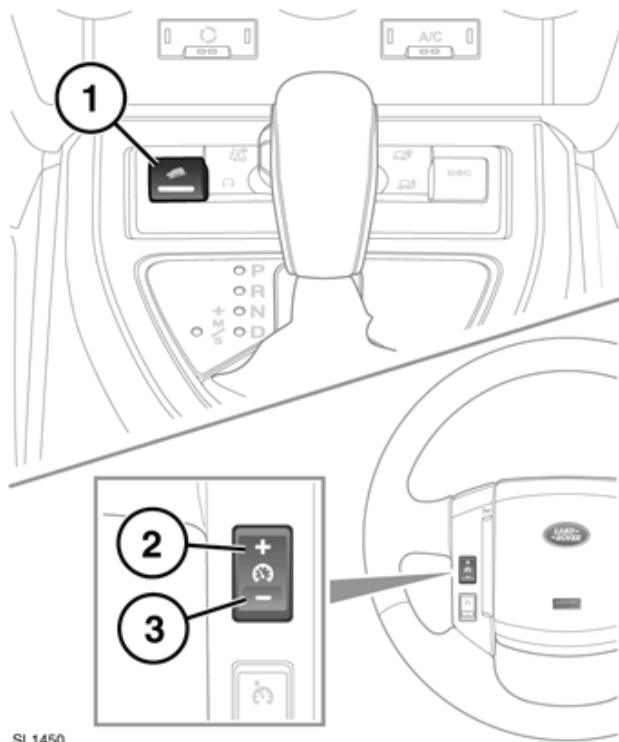
Use of an incorrect program will impair the vehicle's response to the terrain and can reduce the life of the suspension and drive systems.

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 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 80 km/h (50 mph).

Manual transmission: HDC can be used in first or reverse gears.

Automatic transmission: HDC can be used in **D**, **R** or CommandShift **1**. 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 indicator 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, the indicator will flash and the system will fade out, allowing the vehicle speed to gradually increase.

If the vehicle speed exceeds 80 km/h (50 mph) HDC will disengage and the HDC indicator 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.
- To decrease speed press and hold the - switch (3) until the desired speed is achieved.

When the switch is released, the selected speed will be maintained.

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 (0.3 mph).

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.

When using HDC in manual transmission vehicles, depressing the clutch pedal will prevent HDC from controlling the speed of descent.

Hill descent control (HDC)

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.

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, to allow the vehicle to 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.

ASCENDING STEEP SLOPES

When ascending steep slopes with HDC selected, the vehicle will allow full control to the driver in the normal manner. If HDC is switched off, the maximum vehicle speed will be limited to allow more accurate control of the ascent.

WARNING MESSAGES



Do not attempt a steep descent if HDC is inoperative or warning messages are displayed.

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.

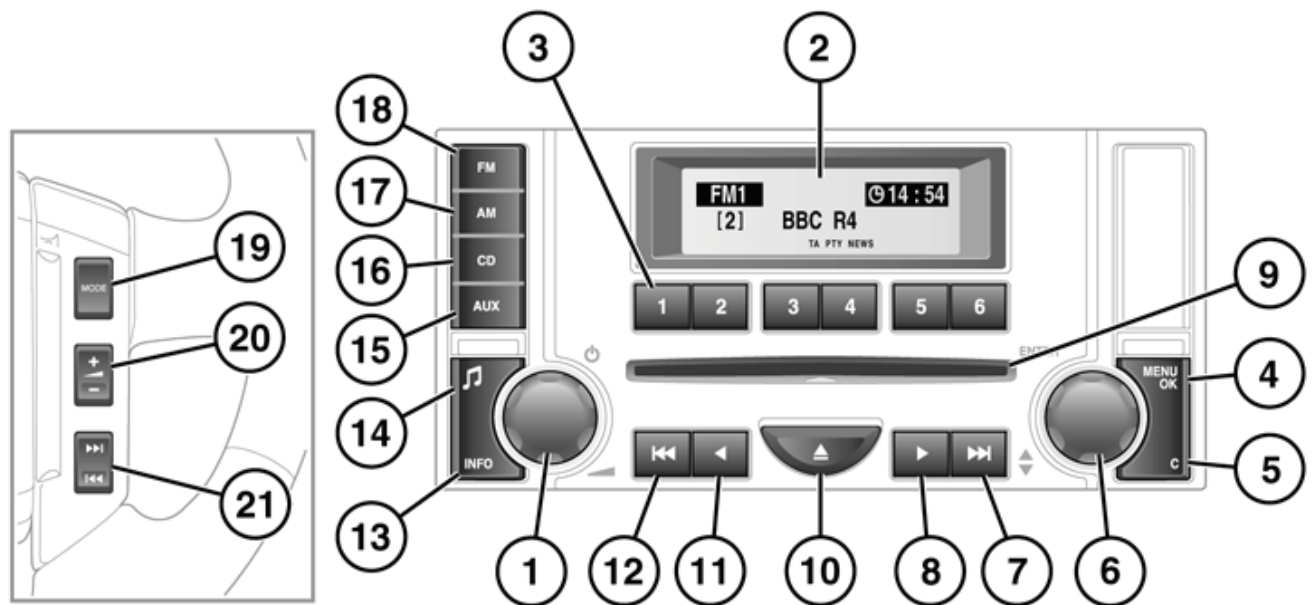
SYSTEM FAULT

If a fault is detected in the HDC system, **HDC FAULT SYSTEM NOT AVAILABLE** 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.

AUDIO CONTROLS (STANDARD SYSTEM)



1. On or off and volume control
 - Press to switch on or off
 - Rotate to adjust volume
2. Information display screen
3. Radio station presets or CD disc selection
4. Audio MENU/OK button:
 - Access
 - Save
 - Close
5. Exit or Cancel button
6. Audio menu control
 - Rotate to scroll through options
 - Press to enable or disable the function
7. Forward search or next track button
 - Radio station automatic forward search
 - Compact disc forward search
8. Manual tuning or cue button
 - Radio station manual forward search
 - Compact disc forward search (cue)
9. Compact disc slot
10. Compact disc eject button
11. Manual tuning or review button
 - Radio station manual rearward search
 - Compact disc rearward search (review)
12. Rearward search or previous track button
 - Radio station automatic rearward search
 - Compact disc previous track or beginning of track
13. INFO button
 - Press and release for traffic announcements
 - Press and hold for news announcements
14. Tone and volume settings button
 - Press and release for tone settings menu
 - Press and hold for volume settings menu

SJ1029

Audio system

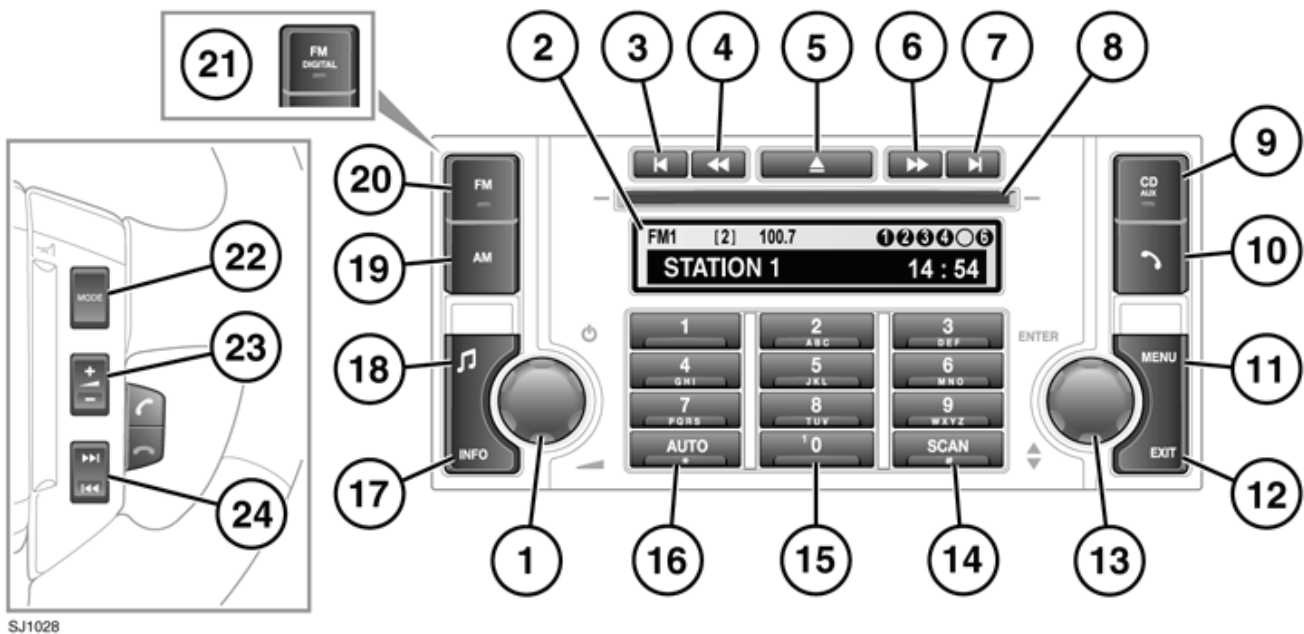
- 15. Auxiliary input mode button
- 16. Compact disc player mode button
- 17. AM waveband button
- 18. FM waveband button
- 19. Mode button. Press to change the audio source

- 20. Volume increase/decrease
- 21. Press and release to scroll through preset radio stations or CD tracks. Press and hold to search for next or previous station or track



Sustained exposure to high sound levels can damage your hearing.

AUDIO CONTROLS (PREMIUM SYSTEM)



- 1. On or off and volume control
 - Press to switch on or off
 - Rotate to adjust volume
- 2. Information display screen
- 3. Rearward search or previous track button
 - Radio station automatic rearward search
 - Compact disc previous track or beginning of track
- 4. Manual tuning or review button
 - Radio station manual rearward search
 - Compact disc rearward search (review)
- 5. Compact disc eject button
- 6. Manual tuning or cue button
 - Radio station manual forward search
 - Compact disc forward search (cue)
- 7. Forward search or next track button
 - Radio station automatic forward search
 - Compact disc next track
- 8. Compact disc slot
- 9. Compact disc player or AUX mode button
- 10. Telephone mode button
- 11. Audio MENU button:
 - FM settings
 - Clock

- CD settings
 - Random
 - AUX settings
12. EXIT button
 13. Audio MENU control
 - Rotate to scroll through options
 - Press to enable or disable the function
 14. SCAN button
 - Press during CD play to listen to the first 10 seconds of each track
 15. Input keypad
 16. AUTO button
 - Press to automatically store radio stations
 17. INFO button
 - Press and release for traffic announcements
 - Press and hold for news announcements
 18. Tone and volume settings button
 - Press and release for tone settings menu
 - Press and hold for volume settings menu
 19. AM waveband button
 20. FM waveband button
 21. FM/DAB button.
 - Press and release to toggle between FM and DAB
 22. Mode button. Press to change the audio source
 23. Volume increase/decrease
 24. Press and release to scroll through preset radio stations or CD tracks. Press and hold to search for next or previous station or track

VOLUME CONTROL

Rotate the volume control to increase or decrease the audio unit volume.

When the audio unit is turned on, the previously set volume level will be implemented.



Sustained exposure to high sound levels can damage your hearing.

***Note:** The standard audio unit can be used with the engine off, but the maximum volume level will be restricted.*

AUTOMATIC VOLUME CONTROL (AVC)

The AVC feature adjusts the volume level to compensate for the changes in road noise as the vehicle speed increases or decreases.

***Note:** The AVC setting represents the volume increase and not the volume level.*

The AVC setting required will depend upon the expected speed and the expected road conditions.

Use the following procedure to set the AVC level.

1. Press and hold the tone button to access the volume settings menu.
2. Press the tone button repeatedly until **AVC Level** is displayed.
3. Rotate the volume control to select the required AVC setting.

RESET VOLUME SETTINGS

The following procedure will reset all of the volume settings to the original factory values.

1. Press and hold the tone button to access the volume settings menu.
2. Repeatedly press the tone button to scroll through the menu until the **Reset volume settings** message is displayed.

3. Rotate the volume control to highlight **YES** or **NO** as required.
4. On premium audio units, press the tone button to confirm your choice and exit the menu. On standard audio units, your choice is confirmed by pressing the **MENU** button.

SURROUND SOUND SETTINGS

1. Press and release the tone button to display the current surround sound setting.
2. Rotate the volume control to highlight **3 Channel**, **Stereo**, or **DPL II** as required.

Note: Dolby Pro Logic II settings are only available with a high quality sound source such as a compact disc.

BASS RESPONSE ADJUSTMENT

1. Press the tone button repeatedly until the current **Bass** setting is displayed.
2. Rotate the volume control to increase or decrease the level.

TREBLE RESPONSE ADJUSTMENT

1. Press the tone button repeatedly until the current **Treble** setting is displayed.
2. Rotate the volume control to increase or decrease the level.

BALANCE ADJUSTMENT

1. Press the tone button repeatedly until the current **Balance** setting is displayed.
2. Rotate the volume control to adjust sound level to the right or left.

FADER ADJUSTMENT

1. Press the tone button repeatedly until the current **Fader** setting is displayed.

2. Rotate the volume control to adjust the sound level to the front or rear.

SUBWOOFER SETTINGS

1. Press the tone button repeatedly until the current **Subwoofer** setting is displayed.
2. Rotate the volume control to increase or decrease the setting.

CENTRE SPEAKER SETTINGS

1. Press the tone button repeatedly until the current **Centre** setting is displayed.
2. Rotate the volume control to increase or decrease the setting.

RESETTING TONE VALUES

Use the following procedure to return the tone settings to the factory defaults.

1. Press the tone button repeatedly until the **Reset tone settings** message is displayed.
2. Rotate the volume control to highlight **YES** or **NO** as required.
3. On premium audio units, press the tone button to confirm your choice. On standard audio units, use the **MENU** button.

All settings will be reset to the neutral (central) value.

WAVEBAND BUTTON

To select the FM waveband, press and release the **FM** button. Repeated presses will scroll between **FM1** and **FM2**. On standard audio units **FMa** is also available. The selection will be shown in the top left-hand corner of the information display.

To select the AM waveband, press and release the **AM** button. The selection will be shown in the top left-hand corner of the information display. On standard audio units, repeated presses of the **AM** button will scroll through **MW1**, **MWa**, **LW1** and **LWa**.

AUTOSTORING RADIO STATIONS - PREMIUM AUDIO

To autostore stations on premium audio units, select the required waveband, then press and hold the **AUTO** button for three seconds.

Autostoring will be shown in the information display and the stations will be stored under the preset numbers in the order in which they are found.

To access the autostored stations, press and release the **AUTO** button. **FMa** or **AMa** will be displayed, depending on the selected waveband.

To recall an autostored station, press and release the required preset number.

To exit the selected autostore waveband, press and release the **AUTO** button.

AUTOSTORING RADIO STATIONS - STANDARD AUDIO

To autostore stations on standard audio units, select the required waveband, then press and hold the relevant waveband button for three seconds. **Autostore** will be shown in the information display and the stations will be stored under the preset numbers in the order in which they are found.

To recall an autostored station, press and release the required preset number.

STATION PRESET BUTTONS

To store a station, press either of the search buttons to find the next available station. Having tuned to the desired station, press and hold the preset number under which you would like the station stored.

The audio output will be muted when the button is pressed, and dependent on specification, accompanied by the message **Station stored**.

To access the stored stations, press and release the required preset number.

TRAFFIC INFORMATION CONTROL

The Traffic Announcement (TA) feature detects the presence of local travel announcements, providing information on local conditions. As soon as a traffic announcement is received, radio reception or CD play is interrupted. At the end of the traffic announcement, radio or CD play will resume.

Press and release the **INFO** button to switch **TA** on or off.

To cancel an announcement, briefly press the **EXIT** or **C** button.

TRAFFIC PROGRAMME (TP) PREFERENCE

With the Traffic Announcement (TA) feature enabled, any announcement received by the system will interrupt normal radio reception or CD play. The TP preference feature on premium audio units allows the system to receive only traffic announcements from a particular station.

1. With the preferred station selected, press the **MENU** button.
2. Use the rotary control to select **FM Settings** and press to confirm.

3. Use the rotary control to highlight **Advanced settings** and press to select.
*Note: The **Advanced settings** menu is not available while the vehicle is moving.*
4. Rotate the control until **TP station** is selected and press to confirm selection.
5. When the station name or frequency is displayed along with the message **Receive TA from this station only?**, press the rotary control to confirm.

RADIO DATA SYSTEM (RDS)

Your audio system is equipped with RDS (Radio Data System), which enables the audio unit to receive extra information with the normal radio signals.

On the FM waveband, RDS enables the audio to receive traffic and news information broadcasts. RDS also allows the audio unit to automatically retune to stations that are linked to the same network.

Note: Not all FM radio stations broadcast RDS. If a non-RDS station is selected, RDS features will not be available.

SELECTING RDS

On standard audio units, RDS can be enabled or disabled, according to preference. The following procedure explains how to switch RDS on or off.

1. With **FM1**, **FM2** or **FMA** selected, press the **MENU** button to display the menu.
2. Using the rotary control, select **RDS** from the menu. **ON** or **OFF** will be displayed, dependent on status.
3. Press the rotary control to change status. The RDS status will be displayed briefly on the information screen.

REGIONAL MODE (REG)

As you drive into different radio reception areas, the Radio Data System (RDS) automatically retunes the radio to the strongest signal. Regional mode is an RDS feature which stops the system from tuning to another local radio station with a stronger signal. With this feature enabled, your selected local radio station will remain tuned.

REGIONAL MODE - PREMIUM AUDIO

1. With **FM1**, **FM2** or **FMA** selected, press the **MENU** button.
2. Use the rotary control to select **FM Settings** and press to confirm selection.
3. Use the rotary control to select **Advanced settings** from the menu and press to confirm selection.
4. The **Advanced settings** menu is not available while the vehicle is moving.
5. From the next menu select **Regional** and press to confirm selection.
6. To enable Regional mode, rotate the control until **On** is selected and press to confirm selection.

REGIONAL MODE - STANDARD AUDIO

1. With **FM1**, **FM2** or **FMA** selected, press the **MENU** button to display the menu.
2. Using the rotary control, select **Regional** from the menu. **ON** or **OFF** will be displayed, dependent on status.
3. Press the rotary control to change status. The regional status will be displayed briefly on the information screen.

ENHANCED OTHER NETWORK (RDS-EON)

The Enhanced Other Network (EON) feature will tune to any radio station of the same station network as the one that you are listening to, once the signal gets weak.

Either local or distant networks can be selected by the EON feature.

1. With **FM1**, **FM2** or **FMA** selected, press the **MENU** button.
2. Use the rotary control to select **FM Settings** and press to select.
3. Use the rotary control to select **Advanced settings** and press to confirm selection.
*Note: The **Advanced settings** menu is not available while the vehicle is moving.*
4. Use the rotary control to select **EON** and press to confirm selection.
5. To enable or disable the EON mode, rotate the control to select **Off**, **Local** or **Distant** and press to confirm selection.

ALTERNATIVE FREQUENCIES

As the Radio Data System (RDS) receives information about the frequencies being used by nearby transmitters, it can choose the strongest signal for the selected station. With the Alternative Frequencies (AF) feature enabled, you will not need to retune the radio as you drive between different transmitter areas.

ALTERNATIVE FREQUENCY (AF) - PREMIUM AUDIO

1. With **FM1**, **FM2** or **FMA** selected, press the **MENU** button.
2. Use the rotary control to select **FM Settings** and press to select.

3. Use the rotary control to select **Advanced settings** and press to confirm selection.
*Note: The **Advanced settings** menu is not available while the vehicle is moving.*
4. Use the rotary control to select **AF** and press to confirm selection.
5. To enable AF mode, rotate the control until **On** is highlighted and press to confirm selection.

ALTERNATIVE FREQUENCY (AF) - STANDARD AUDIO

1. With **FM1**, **FM2** or **FMA** selected, press the **MENU** button to display the menu.
2. Using the rotary control, select **AF Switch** from the menu. **ON** or **OFF** will be displayed, dependent on status.
3. Press the rotary control to change status.

The AF switch status will be displayed briefly on the information screen.

NEWS BROADCASTS

The news broadcasts feature detects the presence of local news. As soon as a news broadcast is received, radio reception or CD play is interrupted. At the end of the news broadcast, radio or CD play will resume.

Press and hold the **INFO** button to switch news announcements on or off.

Note: Both traffic and news information can be selected at the same time. However, the audio unit will always give priority to traffic information.

To cancel an announcement, press and release the **EXIT** or **C** button.

Note: Cancelling an announcement in this way will not prevent further announcements when they become available.

NEWS STATION PREFERENCE

With the news feature enabled, any announcement received by the system will interrupt normal radio reception or CD play. The news station preference feature allows the premium audio system to only receive news announcements from a particular station.

1. With the preferred news station selected, press the **MENU** button.
2. Use the rotary control to select **FM Settings** and press to confirm.
3. Use the rotary control to highlight **Advanced settings** and press to select.
Note: The Advanced settings menu is not available while the vehicle is moving.
4. Rotate the control until **News station** is selected and press to confirm selection.
5. When the station name or frequency is displayed along with the message **Receive news from this station only?**, press the rotary control to confirm.

PRIORITY PROGRAMME TYPE (PTY)

The RDS (Radio Data System) allows programmes to be categorised by the broadcast type (rock music, current affairs, news, etc).

This in turn allows you to search for a station by choosing the type of broadcast that you wish to listen to.

PTY SELECTION - PREMIUM AUDIO

The type of programme searched for by the PTY feature can be selected from the PTY selection list.

1. Press the **Menu** button to enter the menu.
2. Press the rotary control to select **FM settings**.

3. Use the rotary control to scroll through the menu until **PTY** is highlighted, then press the rotary control.
4. Use the rotary control to scroll through the menu until **Select** is highlighted, then press the rotary control.
5. Having entered the **PTY** select menu, use the rotary control to scroll through the programme types until your choice is highlighted.
6. Press the rotary control to select or deselect the programme type(s) required.
7. Press the **EXIT** button to return to the **PTY** menu.

PTY SEARCH - PREMIUM AUDIO

1. Press the **Menu** button to enter the menu.
2. Press the rotary control to select **FM settings**.
3. Use the rotary control to scroll through the menu until **PTY** is highlighted, then press the rotary control.
4. Use the rotary control to scroll through the menu until **Search** is highlighted, then press the rotary control. The audio system will then search for all pre-selected programme types.
5. To abort a **PTY** search, press the **EXIT** button.

Once the search is complete, **PTY** will be displayed on the screen with the station information. To skip to the next or previously stored PTY station, press the forward or rearward search arrow button.

PTY SEEK - STANDARD AUDIO

1. Press the **Menu** button to enter the menu.
2. Use the rotary control to scroll through the menu until **PTY Seek** is highlighted, then press the rotary control.
3. Use the rotary control to scroll through the programme types until your choice is highlighted.
4. Press the rotary control to start searching for the selected programme type.

Once a matching station is found, it will continue to play. If you wish to continue searching, press the search up or down buttons within 30 seconds.

To abort PTY seek, press the **C** button.

RESETTING THE AUDIO UNIT

It is possible to reset the RDS settings on the premium audio unit to the default values in one operation.

1. With the preferred news station selected, press the **MENU** button.
2. Use the rotary control to select **FM Settings** and press to confirm.
3. Use the rotary control to highlight **Advanced settings** and press to select.
*Note: The **Advanced settings** menu is not available while the vehicle is moving.*
4. Rotate the control until **Reset settings** is selected and press to confirm selection.
5. When the message **Reset FM settings?** appears, press the rotary control to confirm, or the **EXIT** button to cancel.

LOADING COMPACT DISCS



Do not force the disc into the slot. Do not use discs with paper labels, Dual Discs or DVD Plus discs. The front loading CD player may load and play this type of disc, however, it is likely that the disc will not eject and will block the CD mechanism. Such damage to a CD player will not be covered under warranty.

***Note:** Some music CD manufacturers are using data encryption to copy-protect their recordings and prevent the production of counterfeit copies. These CDs differ from the internationally agreed CD audio standard, RedBook, a standard that serves as the operating basis for all CD players and changers. 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 do experience a problem, try the CD in other players before contacting the CD vendor.*

LOADING A CD - SINGLE DISC PLAYER

To insert a disc into the player, make sure that the label side of the disc is facing upwards and present the disc to the slot. Ease the disc into the slot until the mechanism takes over and draws the disc in fully.

LOADING A CD - SIX DISC PLAYER

Press the **CD** mode button, then press the numbered button of the position in which the compact disc is to be stored (**1** to **6**).

Make sure that the label side of the disc is facing upwards then, when prompted, partially insert the disc. The player mechanism will draw the disc in automatically and the disc number will appear on the display.

Note: If there is a problem with a disc that has been loaded (inserted upside down, wrong format etc.), **Disc unreadable** or **Disc error** will appear in the information display, and the disc will be ejected. If the problem can be corrected (disc upside down for example), then re-insert the disc in the correct manner. If the problem cannot be rectified, do not re-insert the disc.

There will be a pause while the player reads information from the disc, then play will start at the first track.

To load another CD, press another numbered button (**1** to **6**) and repeat the loading procedure.

Note: The six circles in the top right-hand side of the information display of the premium unit, represent the six available CD positions. As soon as a CD is loaded, its number will appear in the circle.

LOAD ALL

This feature is only available on the standard audio, six disc CD player.

1. Press and hold the **CD** button until **Load All** appears on the display.
2. When prompted, partially insert the first disc. The player mechanism will draw the disc in automatically.
3. When prompted, continue to insert discs until all six discs have been loaded. When fully loaded, the CD player will commence playing CD1.

EJECTING COMPACT DISCS

It is only possible to eject a single disc, if it is currently selected or playing.

To eject a disc, press and release the eject button. A confirmation message will be shown on the information display. After a short pause, the disc will be presented. The disc should then be removed.

Note: If the disc is not removed from the slot within fifteen seconds, it will be drawn back into the player.

EJECTING MULTIPLE COMPACT DISCS

All the discs loaded in the player can be ejected in sequence. To eject all of the discs, press and hold the eject button. A confirmation message will be shown on the information display. After a short pause, the first disc will be presented. The disc should then be removed.

The discs will be ejected one at a time with a short pause in between each.

To stop the process, press any CD number button (**1** to **6**).

COMPACT DISC SELECTION

To select one of the loaded discs, briefly press the disc number required (**1** to **6**). If the position selected does not contain a disc, there will be a pause and a message will appear on the information display.

Once a disc has been inserted, there will be a pause while the player reads the disc information. Playback will then begin at the start of track one.

COMPACT DISC PLAYBACK

To start compact disc playback, briefly press the **CD** mode button, followed by the disc number required. If no disc number is selected, playback will begin at one of two places:

- If the discs have not been removed since their last use, playback will begin from the point at which it was stopped previously.
- If the discs have not been used since they were inserted, playback will begin at the start of the first loaded disc.

COMPACT DISC PAUSE

To pause or stop compact disc playback, briefly press one of the other mode buttons, **AM** or **FM** for example. Press the **CD** button to continue playback.

On premium audio units, CD play will also pause when the volume is turned down to **0**. Play will resume when the volume is turned back up.

COMPACT DISC FUNCTION MENU

Depending on the specification of the audio unit, the following extra functions are available using the compact disc function menu:

- Random
- CD text
- CD scan
- Repeat
- TA
- News

Select compact disc mode, then briefly press the **MENU** button. Use the rotary control to select **CD settings**. Press the rotary control to confirm selection. Use the rotary control to select the required function and press to confirm selection. Rotate the control to enable or disable the function.

COMPACT DISC DISPLAY OPTIONS

Some compact discs, including MP3 files, have information which can be displayed on the premium audio display screen. Instead of the track number, it is possible to view the track title with the CD text function enabled.

To enable or disable the CD text function, select compact disc mode, then briefly press the **MENU** button. Use the rotary control to highlight **CD settings** and press to confirm selection. Using the rotary control, select **CD TEXT** from the menu. Rotate the control to select **On** or **Off** and press to confirm selection.

RANDOM SELECTION - PREMIUM AUDIO

1. Press the **Menu** button to access the menu.
2. Use the rotary control to select **Random** and press to confirm selection.
3. From the following menu, use the rotary control to select **Off**, **All discs** or **Single disc**. Press the control to confirm selection. Press the **EXIT** button to return to the previous menu.

***Note:** When **All discs** is selected, the system will ignore MP3 discs and only play standard audio discs.*

RANDOM SELECTION - STANDARD AUDIO

1. Press the **Menu** button to access the menu.
2. Use the rotary control to select **Random**.
3. Press the rotary control to enable or disable the function as required.

REPEAT COMPACT DISC TRACKS

Repeat allows the current track to play repeatedly until it is stopped or cancelled.

Note: This feature is only available on standard audio units.

1. Press the **MENU** button to view the menu.
2. Use the rotary control to select **Repeat** and press the control to enable the function.
3. To disable the function, rotate the menu control to select **Repeat** and press the control. Pressing the **C** button, the next track or previous track buttons will also disable the function.

CD SCAN - PREMIUM AUDIO

Press the **SCAN** button to enable this function.

To disable the function, and to continue the currently playing track, press the **SCAN** or **EXIT** button again.

Note: While in CD scan mode, pressing the previous track button will resume normal play at the current track. Pressing the next track button will move to the next track and resume normal play.

CD SCAN - STANDARD AUDIO

1. Press the **MENU** button to access the functions menu.
2. Use the rotary control to select **CD Scan**.
3. Press the rotary control to enable or disable the function.

Note: While in CD scan mode, pressing the previous track button will resume normal play at the current track. Pressing the next track button will move to the next track and resume normal play.

MP3 FILE PLAYBACK

Note: Standard audio units do not have the facility to play MP3 files.

When a data disc (containing MP3 encrypted music data) is inserted into the compact disc slot, **MP3** will appear at the top of the display.

The disc will play the tracks in the order they appear on the disc.

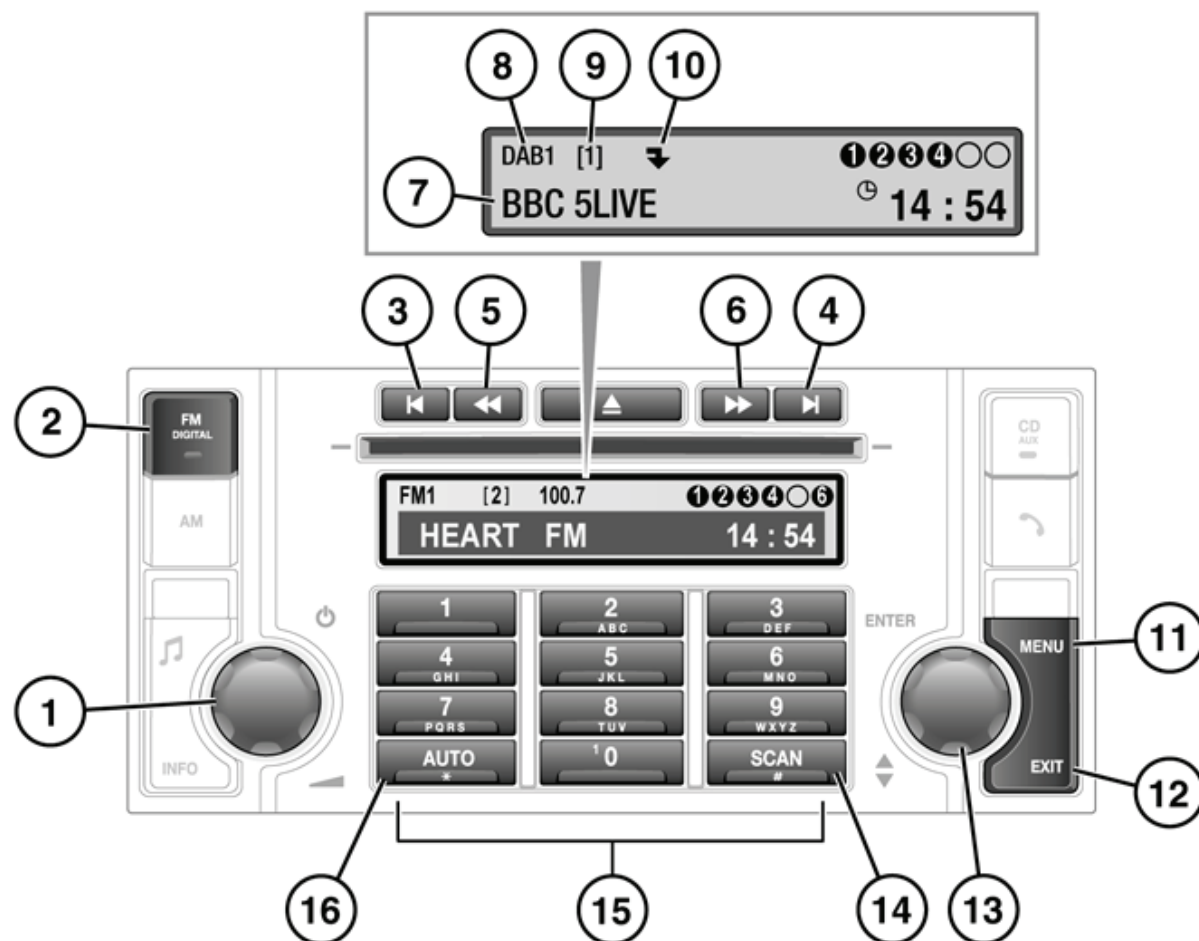
All folder information is ignored and the tracks are numbered as they are ordered.

If you wish to navigate through folders to select specific tracks, press the rotary control to access the file structure. Use the rotary control to highlight the required folder or track and press to select.

If an MP3 recording is made with a compression rate lower than 128k some Digital Signal Processing (DSP) functionality may be lost.

To make sure that the best sound quality is achieved the instructions or information provided with the recording software should be read carefully and adhered to.

AUDIO CONTROLS



SJ1685

1. On/off and volume control
2. FM/DAB button
 - Press and release to select the next available radio source FM1, FM2, DAB1, DAB2
3. Ensemble search down
 - Press and release to find previous digital ensemble
 - Press and hold to display a list all available ensembles
4. Ensemble search up
 - Press and hold to find the next digital ensemble
 - Press and hold to display a list of all available ensembles
5. Channel/Station search down
 - Press and release to find previous digital channel
 - Press and hold to access subchannels (if available), then press and release to find previous subchannel
6. Channel/Station search up
 - Press and release to find the next digital channel
 - Press and hold to access subchannels (if available), then press and release to find next subchannel
7. Channel name
8. Digital source indicator
9. Preset number for current channel

10. Subchannel indicator displays the arrow if a subchannel is available. Displays **SubCh** if a subchannel is being received
11. MENU button
12. EXIT button
 - Press and hold to save changes and exit the menu
 - Press and release to move up to the previous menu
13. Menu control
 - Rotate to scroll through a menu and highlight menu options
 - Press to select menu options
14. SCAN button
 - Press to listen to an eight-second broadcast of each channel in sequence, press again to select a channel
15. Keypad. Preset station store and recall
16. AUTO button
 - Press and hold to start automatic tuning of available ensembles and channels

Note: The display can also show ensemble or programme type (PTY) information if you have selected one of these options via the menu. See **SETTINGS** (page 94).

SELECTING DAB

To receive digital broadcasts, press and release the **FM/DIGITAL** button repeatedly to toggle between the **FM1**, **FM2**, **DAB1** and **DAB2** sources. Choose either **DAB1** or **DAB2** to receive digital broadcasts. The channel that was last played on your chosen digital source will be selected for playback automatically.

Note: If this is the first time you have used DAB, before you can select a channel, you need to build a list of available channels using the auto-tune function. See **CHANNEL AUTOMATIC TUNING** (page 92).

CHANNEL AUTOMATIC TUNING

Note: When you first use your DAB radio, you will be unable to listen to any digital stations until you have used the auto-tune function.

Press and hold the **AUTO** button to start automatic tuning and build a list of all the digital ensembles and channels/stations available in the region you are located.

While automatic tuning is running, the message **Auto-tuning** will be displayed along with a percentage complete. When tuning is complete, the first channel in the first ensemble found will start playing.

To update the list of local channels when you move to a different region, press and hold the **AUTO** button again.

SELECTING AN ENSEMBLE

Digital radio channels are organised into groups called ensembles.

Press and release the ensemble search buttons to find the next available ensemble. The up (>) button finds the next ensemble, the down (<) button finds the previous ensemble. After a few seconds wait the first channel in the ensemble you have selected will play.

Press and hold an ensemble search button to display a list of all available ensembles. Rotate the menu control to scroll through the ensemble list and press it to select one and display a list of channels in that ensemble.

SELECTING A CHANNEL

Press and release one of the channel search buttons to select the next available digital channel. The up (>>) button selects the next channel, the down (<<) button selects the previous channel.

Note: *If the next or previous channel is in a different ensemble, then there will be a short pause before the channel is located. The message **Please wait...** is displayed on the screen.*

SELECTING A SUBCHANNEL

If subchannels are available under the channel you have selected, the subchannel arrow icon is displayed.

Press and hold either of the channel search buttons to access a list of subchannels. Then, to find the next subchannel, press and release the channel search button.

If more than one subchannel is available, press and release the channel search button repeatedly to scroll through the list. To return to the main channel, press and hold one of the channel search buttons. You can also search subchannels from the settings menu. See **SETTINGS** (page 94).

Note: *when you select and play a subchannel, the arrow icon is replaced by **SubCh** on the display screen.*

SCANNING CHANNELS

You can use the scan function to listen to a short broadcast of each available channel in turn before selecting the one you prefer.

Press and release the **SCAN** button to start the channel scan and play the first channel. After eight seconds, the scan moves to the next channel and so on. After the last channel in an ensemble, the first channel in the next ensemble is played. To stop the scan and play the current channel, press the SCAN button again or press the Exit button.

Note: *Subchannels are not included in scanning.*

SIGNAL AVAILABILITY

If the digital radio signal is lost or the system takes time to tune in to a channel, then the display screen will show the message **No reception**.

The problem may be caused by a temporary problem, such as buildings or trees blocking the signal, or it might be a problem with the broadcast service operator. Try tuning to an alternative channel and return later to see if the problem has been resolved. If you are unable to tune to any other channels, you may need to press **AUTO** to perform an auto-tune and find new ensembles.

STORING CHANNELS AS PRESETS

You can store up to twenty digital channels (ten each on **DAB1** and **DAB2**) using the numbered preset buttons.

1. Search for and start playing the channel you want to preset.
2. Press and hold the desired preset button for approximately two seconds. A confirmation message will be 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 you have selected the appropriate digital source (**DAB1** or **DAB2**) and then press and release the preset button you require. The channel you have selected will start to play automatically.

***Note:** If you try to recall a channel that has previously been stored as a preset but is now unavailable or invalid, the message **No channel found** is displayed. You must choose another channel.*

SCROLLING THROUGH PRESETS

Rotate the menu control to scroll through all available presets for the current digital source (**DAB1** or **DAB2**). When you stop rotating, the selected channel will start to play automatically after a few seconds.

***Note:** If you are listening to a subchannel, then rotating the menu control will return you to, and then scroll through, the channel preset list.*

SETTINGS

A number of different functions are available from the DAB settings menu. Follow the procedure below to access the menu.

1. While you are using either the **DAB1** or **DAB2** source, press and release the **MENU** button.
2. Press and release the menu control to select **DAB settings**.
3. Rotate the menu control to scroll through, and highlight, the menu options displayed.
4. Press and hold the **EXIT** button to save any changes you have made and return to normal audio mode.

***Note:** To navigate up to a previous menu level, press and release the **EXIT** button.*

***Note:** If you have pressed the **MENU** button once but take no action for ten seconds, the system will exit the menu automatically.*

DAB SEARCH

To find a specific broadcast, use the **DAB search** menu. You can scroll through, and choose from, complete lists of ensembles, channels, subchannels or programme type (PTY) categories.

1. From the **DAB settings** menu, choose **DAB search**.
2. Press and release the menu control to view the following options: **Ensemble list** to view a list of all ensembles and the channels within each ensemble-; **Channel list** to view a list of all available channels. **Subchannel list** to view a list of all subchannels (if available) under the channel currently playing **PTY** to list all PTY categories (News, Sport, Talk etc.) and the channels within each category.
3. Rotate the menu control to scroll through the list, then press and release the menu control to choose from a list.

AUTO-TUNE

Auto-tune builds a list of all the available digital channels for the region you are in.

See **CHANNEL AUTOMATIC TUNING** (page 92).

Press **AUTO** to begin the process. The message **Auto-tuning...** is displayed along with a percentage to indicate progress.

DAB RADIO TEXT

You can change the type of information that is displayed on the screen when a channel or subchannel is playing.

From the **DAB settings** menu, choose **DAB radio text**. Rotate the menu control and press to select one of the following:

- **Ensemble name** to display the name of the ensemble to which the current channel belongs.
- **PTY** to display the name of the ensemble to which the current channel belongs.
- **Off** to display only the channel name.

Note: When listening to a DAB channel/station, the ensemble name and PTY type can also be displayed. To display the ensemble name or PTY type press the rotary control repeatedly until the required information is displayed.

ADVANCED SETTINGS

From the **DAB settings** menu, choose **Advanced settings**. Use the menu control to navigate the menu options below.

LINK DAB

Some DAB channels are broadcast in a number of different ensembles. For example, some national channels may broadcast a number of regional variations of the same channel under different ensembles.

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, then the message **Switching ensemble** is displayed and the new channel is played automatically after a few seconds. If the channel is not found after a few seconds, the message **No signal** is displayed.

DAB COUNTRY

If you move the vehicle to a different country, you can change **DAB country** setting. This will ensure that the audio unit receives all of the available ensembles, and provides the best possible reception and sound quality. Rotate the menu control to highlight the new country in the list. Press and release the menu control to check the box next to the selected country.

Note: When you change the DAB country, the audio unit automatically starts auto-tuning. See **CHANNEL AUTOMATIC TUNING** (page 92).

BAND SELECTION

Different regions or countries may use different digital bands to broadcast DAB channels. If you know the band(s) required then you can choose from the **Band selection** menu. The available bands are:

- LBand
- BandIII
- LBand & BandIII
- LBand Canada
- LBandCan & BandIII

RESET DAB SETTINGS

If you want to reset the DAB settings to the manufacturer's defaults, use the menu control to choose the **Reset DAB settings** menu option. Press the menu control again to confirm the reset.

FM TRAFFIC AND NEWS

The FM traffic function detects the presence of local travel announcements, while the FM news function detects local news announcements.

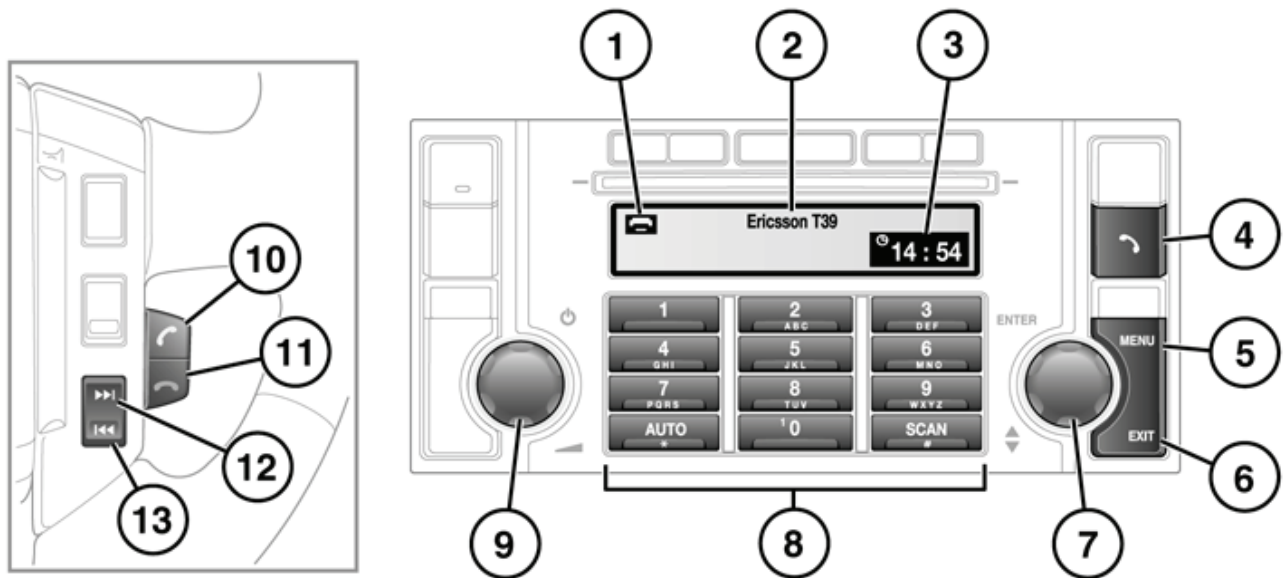
As soon as an announcement is received, radio reception or CD play is interrupted. At the end of the announcement, radio or CD play will resume. You can use this menu option to turn announcements on or off.

From the **DAB settings** menu, choose **FM traffic** or **FM news** and then press and release the menu control to select either **On** or **Off**. To cancel a traffic or news announcement and return to the digital channel, press and release the **EXIT** button. Cancelling an announcement temporarily will not prevent further announcements from broadcasting when they become available.

Note: *Both traffic and news information can be selected at the same time. However, the audio unit will always give priority to traffic information.*

Note: *Traffic and news announcements are not currently available from DAB services, so the audio unit switches to an FM channel just for the duration of the announcement, so there may be some temporary loss of sound quality.*

TELEPHONE CONTROLS



SL1030

1. Call status icon.
2. Paired telephone name.
3. Clock.
4. Telephone enable/disable button.
5. telephone menu.
6. Exit menu or delete entered number.
7. Rotate to navigate menu options, press to select option.
8. Alpha numeric keypad.
9. Press to switch Audio/telephone system on/off, rotate to increase/decrease volume.
10. Answer call or dial switch
 - Pull the switch towards the steering wheel to answer an incoming call, or to view the list of the last 10 dialled numbers (if the audio unit is in telephone mode). A second pull of the switch will dial the highlighted number. Pull and hold the switch (for approximately two seconds) to activate voice tag dialling.
11. End or reject call switch
 - Pull the switch towards the steering wheel to end the current call or reject an incoming call.
12. Menu next button
 - Press to scroll down through a menu.
13. Menu previous button
 - Press to scroll up through a menu.

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** (page 99).

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, 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.

BLUETOOTH SETUP

Before you can use your telephone with your vehicle it must be paired to the vehicle telephone system.

When pairing a Bluetooth telephone with the vehicle system make sure that the telephone is switched on, Bluetooth is enabled and discoverable, its battery is fully charged and the telephone User's Handbook is available.

Note: A maximum of five pairings can be made to the vehicle, but only one telephone can be used at any time.

PAIRING AND DOCKING USING YOUR MOBILE PHONE

Follow the steps below to pair and dock your phone with the vehicle, using your mobile phone.

Note: The process of pairing and docking your phone with the vehicle, using your mobile phone, will vary depending the type of mobile phone used. Alternatively, you can pair and dock your phone with the vehicle using the vehicle's audio display unit.

1. Ensure that the ignition is on and the audio unit display is active.
2. Ensure that there is no phone currently docked with the vehicles Bluetooth system. If a phone is docked with the system, you will not be able to pair and dock another phone until the current phone has been undocked.
3. Using the mobile phone, search for Bluetooth devices. See your phone's operating instructions for further information.
4. When the vehicle's Bluetooth phone system is discovered, your mobile phone will list Land Rover as a Bluetooth device. Select this device from the list.
5. You will now be requested to enter a Bluetooth PIN on your mobile phone. When pairing and docking from your mobile phone, this number is always **2121**.

Once your phone is paired to the vehicle's Bluetooth system, it can connect automatically. If the phone does not automatically connect, you will have to connect manually with the Land Rover Bluetooth System via your mobile phone. Please consult the mobile phones operating instructions for further information.

Note: You do not need to manually pair and dock the phone with the vehicle every time you switch the ignition on.

The Bluetooth system supports Hands Free Profile 1.5 (HFP1.5). If the mobile phone paired to the system also supports this profile, additional features will be available such as signal strength and network operator. If the mobile phone does not support these features, they will not be available on the audio unit display. However, you can refer to the mobile phone's display to determine these items.

Note: Please refer to the Land Rover website at www.landrover.com, for a list of compatible telephones.

ADDING OR CHANGING A TELEPHONE

1. Select the telephone main menu. See **BLUETOOTH SETUP** (page 98).
2. Select **Bluetooth**, then select the option to **change a telephone**.
3. **Add new phone** will appear at the top of the list. Repeat the procedure for pairing a telephone to the system.

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.

REMOVING A TELEPHONE FROM THE SYSTEM

1. Select the telephone main menu.
See **BLUETOOTH SETUP** (page 98).
2. Select **Bluetooth**, then select the option to **remove a telephone**.
3. Select a telephone by rotating the **ENTER** button, highlight the telephone to be removed then press the **ENTER** button. A confirmation message to remove a telephone will appear on the audio unit display, press the **ENTER** button.
4. The **remove telephone** screen will be displayed, and if no further telephones are to be removed, press the **EXIT** button.

LOSS OF BLUETOOTH LINK

If the link between the telephone and the vehicle is lost, you have the choice to reconnect or to exit from the telephone system. To reconnect press the **ENTER** button. There will be a short delay whilst the connection is established and then your telephone name will be shown in the display.

Alternatively, press the **EXIT** button if you do not wish to reconnect your telephone.

Mobile phone compatibility

Not all phones are fully compatible with the Land Rover system. For the latest list of compatible phones and software versions, please refer to <http://www.landrover.com/gb/en/lr/owners/bluetooth/overview/>.

Alternatively consult your Land Rover Dealer/Authorised Repairer.

***Note:** The use of unapproved phones may cause unexpected effects during calls. The effects may include loss of audio and phone lock up.*

TELEPHONE MAIN MENU

Press the **MENU** button then rotate the **ENTER** button to select from:

- Missed calls
- Received calls
- Dialed calls
- Phonebook
 - See **PHONEBOOK** (page 104).
- Bluetooth
 - See **BLUETOOTH SETUP** (page 98).
- Phone settings
- Clock

Press the **ENTER** button to confirm your selection.

Some menu features are inhibited when the vehicle is in motion. The padlock symbol will indicate which features have been locked.

MISSED CALLS

The audio unit display will list the numbers of the last 10 calls which have been missed. These are displayed in chronological order, with the last number missed first and highlighted.

***Note:** Some mobile telephones reverse the missed call list, which results in the last missed call number being at the bottom of the list, rather than the top.*

Rotate the **ENTER** button to select the number, then press again or operate the answer call switch on the steering wheel to dial the number.

If there are no entries, an empty list is shown, press **EXIT** to return to the phone view.

Note: When viewing missed calls, do not rotate the volume button as this will result in your highlighted selection returning to the first entry in the list, irrespective of your previously highlighted position.

RECEIVED CALLS

The audio unit display will list the numbers of the last 10 calls which have been received. These are displayed in chronological order, with the last number received first and highlighted.

Note: Some mobile telephones reverse the received call list, which results in the last received call number being at the bottom of the list, rather than the top.

Rotate the **ENTER** button to select the number, then press again or operate the answer call switch on the steering wheel to dial the number.

If there are no entries, an empty list is shown, press **EXIT** to return to the phone view.

Note: When viewing received calls, do not rotate the volume button as this will result in your highlighted selection returning to the first entry in the list, irrespective of your previously highlighted position.

DIALLED CALLS

The audio unit display will list the numbers of the last 10 calls which have been dialled. These are displayed in chronological order, with the last number dialled first and highlighted.

Note: Some mobile telephones reverse the dialled call list, which results in the last dialled call number being at the bottom of the list, rather than the top.

The dialled calls list can also be accessed by pressing the **ENTER** button, when telephone mode is selected.

Rotate the **ENTER** button to select the number. Then to dial the number, press **ENTER** again, or operate the answer call switch on the steering wheel.

If there are no entries, an empty list is shown, press **EXIT** to return to the phone view.

Note: When viewing dialled calls, do not press the volume button as this will take you back to the radio or CD.

PHONE SETTINGS

Select **Call options** from the **Phone Settings** menu, and press the **ENTER** button.

CALL OPTIONS

This feature is used to turn the automatic answer facility on or off and also to enter the voice mail number.

Rotate the **ENTER** button to highlight **Automatic answer** and press the **ENTER** button. Select **On** and press the **ENTER** button again.

When automatic answer is on, all incoming calls are answered automatically and when the mode is off you must accept the call or press **EXIT** to reject.

To enter a voice mail number, rotate the **ENTER** button to highlight **Voicemail number** and press the **ENTER** button. Enter your voice mail number on the keypad and press the **ENTER** button again.

Use the **EXIT** button to delete an incorrect number.

SOUNDS AND ALERTS

Selecting sounds and alerts gives you the choice to alter the ring tone and the ring volume.

Bluetooth telephone

To select the ring volume, rotate the **ENTER** button to highlight **Ring volume** and then press the **ENTER** button to select. Now by rotating the **On or off or volume** button you can change the ring volume.

Note: *If the ring volume is not changed, the ring tone will sound for eight seconds. If the ring volume is changed, the ring tone will return to the menu two seconds after the change has been made.*

*This only applies to the **Car ring tones**. If **Mobile ring tone** is selected, no ring tone will be played. When **Mobile ring tone** has been selected, the volume can only be changed when there is an incoming call, i.e. ringing.*

Select ring tone by rotating the **ENTER** button to highlight **Ring tone** and then press the **ENTER** button to select. Rotate the **ENTER** button to select one of the four alternative ring tones, or use the mobile telephone ring tone. Once you have selected a ring tone, press the **ENTER** button to hear the selected ring tone.

Note: *This only applies to the **Car ring tones**. If **Mobile ring tone** is selected, no ring tone will be played. When **Mobile ring tone** has been selected, the volume can only be changed when there is an incoming call, i.e. ringing.*

Another brief press of the **ENTER** button will store the tone. If you press the **EXIT** button the tone will not be stored and the ring tone menu will remain visible. Press the **EXIT** button again to return to the main menu or to the function previously selected.

Note: *Not all mobile telephones support **Mobile ring tone**, in this case it will not be possible to select and store the **Mobile ring tone** setting in the vehicle system.*

AUTOCOPY PHONEBOOK

This feature allows you to choose whether or not your phone book is automatically updated every time you connect your telephone to the vehicle system. If **On** is selected and your telephone has the capability, the vehicle phone book will be updated the next time the telephone is connected to the vehicle. If **Off** is selected the phone book will not be downloaded to the vehicle system.

Press the **ENTER** button after making your selection. Pressing the **EXIT** button will return you to the previous screen. To return to the telephone main display, press and hold the **EXIT** button.

SELECTING TELEPHONE MODE

Switch on the ignition. If your telephone is switched on and previously paired or connected with the system, you can select the vehicle telephone system.

Briefly press the telephone mode button (arrowed). Visual confirmation of telephone operation is given via the display.

If a telephone is not paired to your vehicle system, **No paired Phone** and **Do you want to pair?** is displayed.

To exit telephone mode, press one of the audio system mode buttons, i.e. **FM**, **AM** or **CD or AUX**.

DIALLING A NUMBER MANUALLY

Enter the telephone number to be dialled, using the vehicle keypad. The digits of the number appear in the display.

To pause during number entry, press and hold the **AUTO** key. A * symbol will appear in the display.

The international dial symbol + can be entered by pressing and holding the **0** (zero) key.

When the telephone number has been entered, briefly press the **ENTER** button or operate the answer call switch on the steering wheel to dial the number (**Dialling** appears in the display supported by ringing tones). A successful connection is shown on the display.

Note: To cancel a call at any time, press the **EXIT** button or operate the end call button on the steering wheel.

CORRECTING OR DELETING NUMBERS

If an incorrect digit is entered, press the **EXIT** button to delete the last digit, then enter the correct digit.

Press and hold the **EXIT** button (for approximately two seconds) to delete all entered digits.

LAST NUMBER REDIAL

The last number dialled can be redialled using the answer call switch on the steering wheel. If telephone mode is active, pull and release the switch. The number will appear in the audio unit display. Pull and release the answer call switch for a second time and the number will be dialled.

If telephone mode is not active, press the telephone mode button to enter telephone mode.

Note: Some mobile telephones reverse the last dialled number list, which results in the last dialled number being at the bottom of the list, rather than the top.

RECEIVING TELEPHONE CALLS

When a call is received, the number or caller ID (if entered into the phone book) will appear in the audio unit display.

If the audio or a CD was in use before the telephone call then that function will resume at the end of the phone call. A CD will continue playing from the point at which it was paused by the telephone call. The telephone display will be visible for the duration of the call.

The call can be answered in two ways:

- Operate the answer call switch on the steering wheel.
- Briefly press the **ENTER** button.

If automatic answer is switched on, the call is accepted automatically. If automatic answer is switched off, and you do nothing, the vehicle system will operate as your mobile telephone would operate, i.e. go to voice mail or continue ringing.

Note: The automatic answer feature can be switched on or off.

When the call is accepted, the display shows that the call is in progress and the duration of the call in minutes and seconds.

REJECTING AN INCOMING CALL

To reject a call without answering, briefly press the **EXIT** button or operate the end call switch on the steering wheel.

TELEPHONE IN-CALL MENU

A number of settings can be made while a call is in progress. These are:

- muting the call
- privacy call
- accessing the phonebook.

When the call is ended the in-call settings return to their default values.

To enter the in-call menu, press the **MENU** button and then rotate the **ENTER** button to highlight the required option. Press the **ENTER** button to select.

MUTE THE CALL

Select **Mute** and press the **ENTER** button, this will prevent the caller from hearing any conversation in the vehicle.

Select **Mute Off** and press the **ENTER** button to resume your telephone conversation.

PRIVACY MODE

Select **Privacy** and press the **ENTER** button, this will transfer the call to the mobile telephone preventing the vehicle occupants from listening in to your received conversation.

Select **Hands Free** and press the **ENTER** button when you wish to return to using the vehicle system.

***Note:** Some mobile telephones may end the call or lose the Bluetooth connection when transferring between Privacy and Hands Free modes.*

PHONE BOOK

You can access your phone book during a telephone conversation if you need to find a particular number.

Select **Phonebook** and press the **ENTER** button.

Press the **EXIT** button to return to your telephone conversation.

VOICE MAIL

Voice mail may be set up by your service provider and can be used by the vehicle system.

Before voice mail can be used in the vehicle system, the voice mail number needs to be entered.

You can access your voice mail when the mobile telephone is switched on, the voice mail number has been stored in the vehicle system and the vehicle system is in telephone mode. Press and hold the number **1** key on the keypad. This will send a message to the mobile telephone to dial the voice mail number.

You can also access voice mail by using **Call options** in the **Phone Settings** menu.

The audio unit display will indicate when voice mail is empty.

PHONEBOOK

When your telephone is next connected to the vehicle and autocopy phonebook is set to **On**, your phonebook is downloaded automatically to the vehicle system, provided your telephone has the capability.

***Note:** If there is a communication problem with the telephone or the telephone does not support this feature, the message **Phonebook is empty** will be displayed, and the phonebook will not be downloaded.*

Once downloaded, the phonebook can be accessed through the telephone main menu.

1. Press the **MENU** button to access the telephone main menu.
2. Rotate the **ENTER** button to highlight **Phonebook** and press the **ENTER** button again to select.

***Note:** To exit the phonebook without selecting an entry, press the **EXIT** button.*

PHONEBOOK MENU

Rotate the **ENTER** button to select one of the following options:

- Search Phonebook
- Copy from Phone
- Erase car entry

- Erase car Ph.book

Press **ENTER** to confirm your selection.

SEARCH PHONEBOOK

***Note:** When viewing the phonebook, do not rotate the volume button as this will result in your highlighted selection returning to the first entry in the phonebook, irrespective of your previously highlighted position.*

The following methods can be used to search the phonebook:

- browsing
- alphabetic search
- quick search

Browsing the phonebook

1. With phonebook displayed, rotate the **ENTER** button clockwise, or operate the menu next button on the steering wheel to scroll down the phonebook. To scroll up the phonebook, rotate the **ENTER** button anti-clockwise or press the menu previous button on the steering wheel.
2. Once the chosen phonebook entry is highlighted, press the **ENTER** button, or operate the answer call switch on the steering wheel, to dial the number.
3. If an entry was selected by mistake, either operate the end call switch on the steering wheel, or press the **EXIT** button to cancel dialling.

Alphabetical search

1. With the phonebook displayed, press the appropriate key the corresponding number of times according to the initial letter of the entry.

2. If there are a large number of entries beginning with the letter **H**, the second and subsequent characters of the name can be added by repeatedly pressing the relevant key until the character appears in the audio unit display.
3. Once the chosen phonebook entry is highlighted, press the **ENTER** button, or operate the answer call switch on the steering wheel, to dial the number.

Quick search

1. To find a specific number from your phonebook without accessing the phonebook, while in telephone mode, press and hold a key (between **2-9**) which corresponds to the first letter of the name.
2. If there are a large number of entries beginning with letter **M**, the second and subsequent characters of the name can be added by repeatedly pressing the relevant key until the character appears in the audio unit display.
3. Once the chosen phonebook entry is highlighted, press the **ENTER** button, or operate the answer call switch on the steering wheel to dial the number.

COPY FROM PHONE

If the phonebook in the vehicle system does not match that of the mobile telephone (and your mobile telephone supports this feature), the following procedure will allow you to re-synchronise.

Note: The vehicle system phonebook allows 750 entries to be downloaded. If your mobile telephone contains more than this, the mobile telephone will send these in memory location order. Which means that your telephone phonebook may not always match the vehicle system.

1. Enter the phonebook menu and select **Copy from Ph. book**. Press the **ENTER** button to confirm.
2. If successful, **Phonebook downloading to the car is in progress** will appear on the display.
3. On completion of the download, the display will return to the telephone main menu.

If the phonebook download is not supported, the message **Phonebook download is not supported by this phone** will appear in the display.

ERASE CAR ENTRY

Once a phonebook has been downloaded, individual entries can be erased from the vehicle system, not from the mobile telephone.

Note: If Autocopy phonebook is switched on, the next time the telephone is connected to the vehicle system, the mobile telephone's phonebook will be sent to the vehicle. This may result in your previously deleted entry being reinstated in the vehicle system phonebook.

1. Enter the phonebook menu and select **Erase car entry**.
2. Press the **ENTER** button to confirm.
3. Rotate the **ENTER** button to select the entry you wish to erase and press the **ENTER** button.
4. A confirmation message will appear on the display. Press the **ENTER** button to erase the entry or press the **EXIT** button to retain the entry and return to the menu.

ERASE CAR PH. BOOK

Once a phonebook has been downloaded, it can be erased from the vehicle system, not from the mobile telephone.

Note: If Autocopy phonebook is switched on, the next time the telephone is connected to the vehicle system, the mobile telephone's phonebook will be sent to the vehicle. This may result in your previously deleted phonebook being reinstated in the vehicle system.

1. Enter the phonebook menu and select **Erase car Ph. book**. Press the **ENTER** button.
2. A confirmation message will appear on the display. Press the **ENTER** button to erase the phonebook or press the **EXIT** button to retain the phonebook and return to the menu.

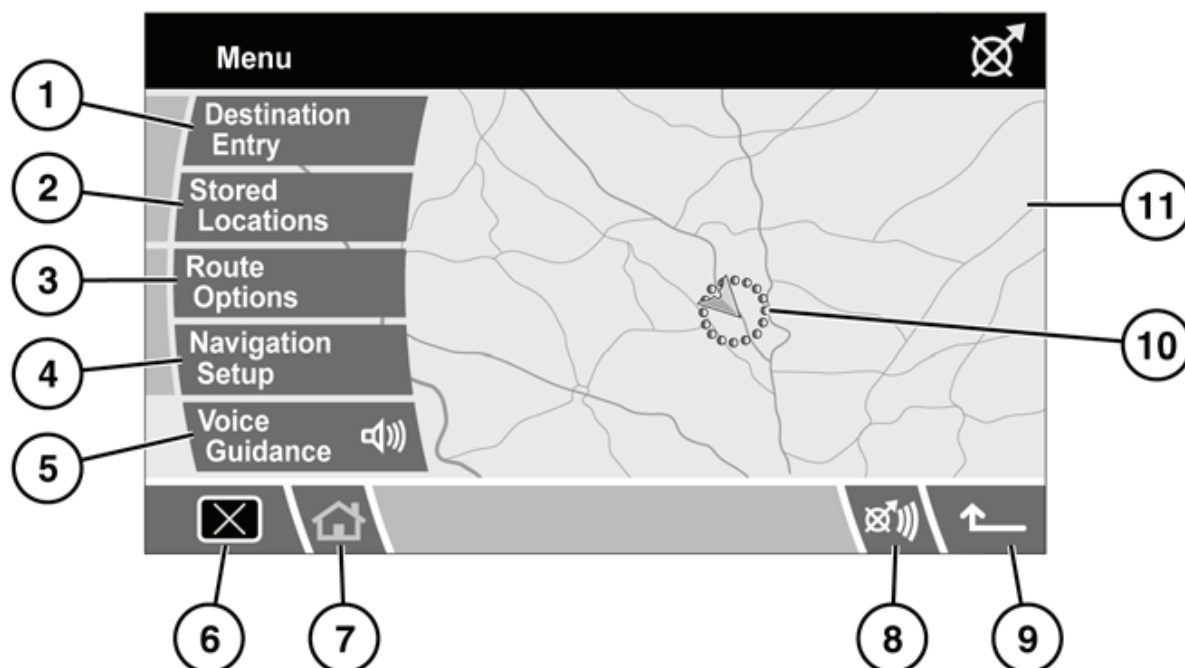
TELEPHONE VOICE CONTROL

The vehicle system is able to use any voice tags which are stored in the mobile telephone.

Note: Voice tags are stored via the mobile telephone and should be set up without the mobile telephone connected to the vehicle.

1. Press and hold the **ENTER** button, or pull and hold the answer call switch on the steering wheel to access voice tag dialling.
2. The phone display will show that voice tag dialling is in progress and, after an audible prompt from your mobile telephone, you should recite the name that you want to call.
3. A message on the audio unit display will confirm your voice tag and the number is then dialled.
4. If the name you requested is not recognised then you will be informed.
5. Press the **EXIT** button to cancel voice tag dialling.

NAVIGATION SCREEN OVERVIEW



SL1710

1. Destination Entry - Provides a choice of options for entering a destination.
2. Stored Locations - Provides access to any previously stored destinations.
3. Route Options - Allows the user to select various options for the route. Also allows the user to cancel guidance during the journey.
4. Navigation Setup - Provides access to user selectable settings for the navigation system.
5. Voice Guidance - Allows the voice guidance during the set journey to be turned on or off.
6. Switch off screen.
7. Home, returns to the home menu.
8. Repeat last voice instruction.
9. Return arrow, returns to the previous screen.
10. Current vehicle position and direction of travel.

11. Map screen.

SAFETY WARNINGS



Do not use the system until you have familiarised yourself with its operation.

The requirements of the Road Traffic Regulations (RTR) apply.

Observation of traffic signs and local traffic regulations always take priority.

Traffic guidance is restricted to passenger vehicles. Special driving recommendations and regulations for other vehicles (e.g. commercial vehicles) are not taken into account. The destination must only be entered when the vehicle is stationary.



The navigation Database reflects reality as existing before you receive the Database and it comprises data and information from government and other sources, which may contain errors and omissions. Accordingly, the Database may contain inaccurate or incomplete information due to the passage of time, changing circumstances, and due to the nature of the sources used. The Database does not include or reflect information on - amongst other things - neighbourhood safety, law enforcement, emergency assistance, construction work, road or lane closures, vehicle or speed restrictions, road slope or grade, bridge height, weight or other limits, road or traffic conditions, special events, traffic congestion or travel time.

Only operate, adjust or view the system when it is safe to do so.

SAFETY INFORMATION

The caution screen is displayed each time the starter switch is turned on and the navigation system is selected.

The caution screen gives the following information:

- Distraction may cause accidents.
- Never enter data when driving.
- Always concentrate on driving and obey traffic regulations.
- See Owner's Handbook.

Danger of accident:

- Through operation of the navigation unit when driving, e.g. entering destination:
 - the destination must only be entered when the vehicle is stationary.

- use of the navigation unit is only permitted if traffic conditions are suitable and you are absolutely sure that no risk, obstruction or inconvenience will be incurred to you, your passengers or other road users.
- Through non-observance of Road Traffic Regulations:
 - the requirements of the Road Traffic Regulations retain their validity. It is possible that inaccurate or incorrect instructions are given due to altered traffic routes, e.g. due to road works or deviating data. The actual road signs and traffic regulations must therefore always be observed.
- Through misuse of the unit:
 - 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 volume of the car radio/navigation system must be adjusted so that external noise is still audible.
 - switch off the unit immediately if a fault occurs (e.g. emission of smoke or odours).

LOADING THE NAVIGATION DVD

Note: Before using the navigation system, ensure that the DVD that contains the correct country mapping information is loaded in the navigation control unit housed under the right-hand front seat. Access to the DVD player is from the rear of the seat.

Note: The starter switch must be turned on.

Move the slider to the unlock position.

Press the unload button to eject a DVD, if one is installed in the DVD player.

Load the correct Navigation System DVD with the printed side upwards. Do not allow moisture or foreign objects to enter the slot.

Move the slider to the locked position.

SCREEN SETTINGS

Touch the **Navigation** button to display the navigation menu.

Touch the **Settings** button to display the vehicle settings menu.

The screen display can be changed by selecting screen saver or be blanked out by touching the **X** button, lower left of the screen.

SETTINGS MENU

Touch the **Settings** button to make changes to the touch-screen settings.

BRIGHTNESS/CONTRAST

Select **Bright./Cont.** to adjust the screen display brightness and contrast.

Touch the appropriate **+** or **-** button to increase or decrease the brightness or the contrast of the screen.

After making any changes, touch the return button to return to the settings menu screen or touch the Home button (or touch the back arrow twice) to return to the Home screen.

AUTO-DIMMING

When auto-dimming is active, the brightness of the screen is adjusted automatically to suit the interior ambient lighting conditions (dimming as light levels fall and brightening as levels rise).

With Auto-Dimming **Off** selected, screen brightness will remain at the level set using the screen settings control.

PREFERENCES

Touch to highlight either **km** (to view distances in metric measurements) or **Miles** (to view distances in imperial measurements).

LANGUAGE SETTING

To change the display language, select the Globe button to see the list of available languages.

Touch to highlight (orange) the language you require. If the language you require is not shown, touch the down arrow to the left of the last language button to display more languages.

Touch the back arrow to return to the previous screen.

BUTTON FEEDBACK

Touch to highlight **Button Feedback**, to view the options. Select **On** to hear a tone every time you touch a button or select **Off** to turn this feature off.

Touch the back arrow to return to the previous screen.

NAVIGATION SETUP

After selecting navigation, the navigation main menu is displayed showing the options available.

There are additional sections in this handbook specifically showing Points of Interest (POI's) and End User Licence Agreements.

Select the menu item required.

Note: The buttons will disappear after approximately 12 seconds. To view the buttons again, select **Menu**. Touching the map will also remove the buttons.

NAVIGATION SETUP

From the main navigation menu select **Navigation Setup**.

USER SETTINGS

A number of user settings can be made from this menu.

From the Navigation Setup menu, select **User Settings**.

Touch the arrow buttons to scroll through the list. Touch to highlight (orange) the options required.

The **Text Size on the MAP** and **Keyboard Layout** options have more than one setting. Touch to toggle between the settings. The current setting is shown in a box alongside the relevant button.

When the User Settings are as required, select **OK**.

QUICK POI SELECTION

Touch the Map screen to display the POI button. Select **POI**.

The screen shows the six quick points of interest categories.

Note: The POI button will not be active if the zoom level is above 1 km (½ mile).

Select up to five POI's from the list, to appear as icons on the navigation map display. As a reference, the icons appear in the five boxes at the top of the screen.

If the POI you wish displayed on the map guidance screen is not one of the six Quick POI's, select **More** to see further POI's.

Eight POI categories are displayed. Select a category to view the sub-categories, or select **List all Categories** to view all POI's alphabetically.

1. Use the arrow buttons to scroll through the list
2. Select the required POI. The relevant icon appears in one of the boxes at the top of the screen.
3. When all the required POI's have been chosen, select **OK**. The navigation map screen with the selected POI icon(s) is displayed.

CALIBRATION

Select **Calibration** from the Navigation Setup menu.

POSITION/DIRECTION

If the vehicle has been moved, for example, by ferry, rail or trailer, the vehicle position/direction may need to be calibrated.

Select **Position/Direction**. A map showing the current vehicle position is displayed.

Touch the appropriate arrow icons to scroll the map until the vehicle position is in the correct location, then select **OK** to confirm.

Note: During map scrolling, the vehicle position icon will remain centrally located on the screen, while the map scrolls to the new position.

The map showing the heading adjustment arrows is displayed. Adjust the heading by touching the arrows until the navigation symbol shows the correct alignment. Select **OK** to confirm the new heading.

DISTANCE

If the tyres on the vehicle have been replaced, select **Distance** from the Calibration menu.

The system automatically recalibrates its distance measurements accordingly.

LANGUAGE SELECTION

It is possible to change the language used on the navigation display screens. This does not affect the navigation voice language.

From the Navigation Setup menu, select **Language Selection**.

Use the arrow buttons to scroll through the list. Touch to select the required language. The display returns to the Navigation Setup menu.

STORED LOCATIONS

From the navigation menu select **Stored Locations**. This enables you to manage destinations such as, place of work, home, favourite restaurant or areas to avoid.

MEMORY POINTS

From the **Stored Locations** menu you can save up to 106 memory points. For this example, we will store the exit from the M69 motorway onto the A5 major road, as a Memory Point.

Select **Memory Points** to access the Memory Points menu.

Select **Add** to store a memory point.

TO ADD A MEMORY POINT

A memory point is added in the same way as a destination, using the address, Postcode, POI etc.

For this example, we will select a **Motorway Entry/Exit**.

Select the initial letter for the motorway (e.g. **M**) using the keyboard, then select **0-9**, to view the numeric keypad.

Enter the motorway designation number (e.g. **69**) using the keypad, then confirm the motorway number by selecting it from the subsequent list.

Select **Exit**.

Use the arrow buttons to scroll through the list until the required exit is displayed (e.g. **A5**), then touch to select.

***Note:** The list of motorways with the entered designation may only contain one option.*

A map is displayed showing the chosen exit from the motorway. Adjust the location (if necessary) by touching the arrow icons to reposition the memory point on the map, then select **OK**.

You now have the option to allocate different attributes to this memory point.

Select the attribute you wish to edit, by touching the relevant button (**Attribute, Name, Phone Number, Location** or **Icon**).

ATTRIBUTE

This enables you to set the memory point as either your Home address or as a Quick Access point. Select **Attribute** from the Memory Point menu.

1. To set the memory point as your Home address, select the bar with the Home icon. The display returns to the Memory Point menu.
2. To set the memory point as a Quick Access point, select a vacant numbered button (1-5). If all five Quick Access points are in use, replace an existing Quick Access point with the new one, by selecting the relevant button.

NAME

It is possible to allocate a name to a memory point.

Select **Name**, then use the keyboard to enter the chosen name (e.g. Fuel Stop). Select **OK** to confirm the name.

Note: It is necessary to delete the existing name (e.g. M69,A5) before entering a new one.

PHONE NUMBER

If required, it is possible to allocate a phone number to the memory point. Select **Phone Number**, then use the keypad to enter the number.

Select **OK** to confirm the number.

LOCATION

If you wish to change the location of the memory point, select **Location**.

A map showing the current memory point location is displayed. Touch the relevant arrow icons to move the memory point icon to the new location.

Select **OK** to confirm.

ICON

Select **Icon** to change the icon associated with the memory point.

Choose an icon from the selection. Select **Page 2** to view additional icons.

It is also possible to allocate a sound to your memory point. Select **With Sound**, then select a sound from the list. To preview a sound, select the **Play** button alongside the chosen sound.

SHOW NAME

If you would like the name of the memory point to be shown on the navigation map, select **Show Name** to highlight (orange) the button.

Once all required attributes have been applied, select **OK** to store.

The display returns to the list of Memory Points, which can be selected for editing. Touch the return icon to return to the Memory Point menu.

EDITING A MEMORY POINT

Select **Edit** from the memory point menu.

Select the memory point to edit. The attributes are displayed. Editing an attribute involves the same process as when adding a memory point, as described previously.

To return to the memory point menu, touch the return arrow.

DELETING A MEMORY POINT

Select **Delete** from the Memory Point menu.

Select the memory point you wish to delete.

A confirmation screen is displayed. Select **Yes** to delete. The display returns to the Delete Mem. Points menu.

To delete all stored memory points, select **Delete All** from the Delete Mem. Points menu.

DESTINATION/WAYPOINT

This facility enables you to select an existing destination or enter a new destination and then add waypoints along the route.

AVOID POINTS

After a route has been selected you can set a single or a series of Avoid Points. Once the avoid points are programmed, the system will recalculate the route, avoiding any area designated as an avoid point.

From the Stored Locations menu, select **Avoid Points**.

From the next screen, select **Add**. The map of your route is displayed.

1. Use the zoom button to select a suitable scale on the map.
2. Touch the arrow icons to locate the general area you wish to avoid during your route. If necessary, zoom in on the area again to locate your avoid point accurately.
3. When the avoid area is located correctly, select OK.

The next screen gives you the opportunity to set the size of the avoid area. Use the **Reduce** and **Enlarge** buttons to find the exact area you wish to avoid. Touch **OK**.

A confirmation screen is displayed and the area to avoid is stored.

Use the Edit and Delete functions from the Avoid Points menu to adjust the location of an avoid point, or to delete an avoid point from a route.

HOME

The Home function allows a stored destination to be selected quickly and therefore is most suited to a destination used frequently (but is not limited to the user's home address). Only one destination can be allocated as Home.

From the **Stored Locations** menu select **HOME**.

To enter a new Home destination, select **Add**.

Note: Select **Edit** to edit the details of the existing Home location and select **Delete** to remove the existing Home location.

Enter the Home destination as you would enter any other destination, adding attributes such as a name, icon, phone number etc.

Note: If you intend to enter your home address, it may be advisable to enter an alternative location close by. This is so that in the event of your vehicle being stolen, you do not give away your home address.

SELECTING HOME AS YOUR DESTINATION

Select **Destination Entry** from the Main Menu

Select **Home** from the Destination menu, then select **OK** to confirm.

SETTING A DESTINATION

Select **Destination Entry** from the main Menu (select **Menu** from the map guidance display to view).

SEARCH AREA

To reduce the time taken to calculate a route, map databases are divided into countries, or into areas of countries, called search areas.

It may be necessary to change the search area that the navigation system is referencing (e.g. if you are travelling to another country), before setting your destination.

Select **Search Area** from the Destination menu. The currently selected search area is shown highlighted on the map.

Select the search area (country) relevant to your journey, from the list of available areas.

DESTINATION ENTRY

Select a method of entering the destination. For this example we will use **Address**.

ENTERING THE TOWN NAME

Select **Town**, then from the following screen select **Town name**.

Use the keyboard to enter the name of the destination town. Only valid letters are available for selection and when enough letters have been entered for the system to offer a choice of destination, a list is displayed.

Select the desired destination from the list.

Note: *The list of possible destination towns may only contain one option.*

The display returns to the Address entry screen.

ENTERING THE STREET NAME

From the Address screen, select **Street**.

Now use the keyboard to enter the Street name.

Once again, only letters which are valid will be available for selection.

When the system recognises enough letters, the street or a list of streets will be displayed.

Select the street you require.

ENTERING THE HOUSE NUMBER

From the Address screen, select **House Number**.

Enter the **House Number** of the address (if known) then select **OK** to confirm.

If the house number is not known, select **OK** - the mid-point of the street is then used as the destination.

Note: *If a list of house number ranges is displayed, select the applicable range and then enter the number.*

Once the address details have been entered, a map of the destination is displayed.

Touch the arrow icons to fine-tune the destination location (if necessary).

If you do not need to set the route preferences, select **Destination** to start the route calculation. If you wish to set route preferences, see **ROUTE PREFERENCES** (page 114).

A map overview of the route is displayed, with the destination identified by a red circle containing a white ring.

If you are happy with the route shown and no waypoints are required for the route, select **Start** to initiate route guidance.

If you wish to view alternative routes to your destination, select **3 Route**. See **ALTERNATIVE ROUTES** (page 114)..

If you wish to add waypoints to a route, select **Change Route**. See **SETTING WAYPOINTS** (page 115)..

ROUTE PREFERENCES

Use the Route Preferences facility to select which route options you require the navigation system to use when calculating your route.

To change the route preferences select **Route Preferences** from the Route Options menu (accessible from the main Menu), or select **Route Prefs.** from the destination confirmation screen.

Use the arrow buttons to scroll through the list. Touch to highlight (orange) the desired options and then select **OK**.

ALTERNATIVE ROUTES

From the map overview of the route, select **3 Route**. A choice of three different routes is displayed on the map, each highlighted in a different colour.

On the right of the screen, the three routes are listed, along with the distance and estimated time of each route.

Select **Route 1**, **2** or **3** by touching the respective box.

SETTING WAYPOINTS

A waypoint is a location that you wish to visit as part of your journey to your destination (e.g. a place to eat, a hotel or a tourist attraction).

***Note:** A Destination must be entered before any Waypoints can be set.*

Set waypoints for your journey after setting the destination, but before starting guidance. See **SETTING A DESTINATION** (page 113)..

From the map overview of the route, select **Change Route** to access the Route Options menu.

***Note:** It is also possible to access the Route Options menu from the main Menu.*

Select **Destination/Waypoint**, then select **Add**.

Select the method of entering a waypoint. For this example, **POI** is selected, then from the next screen select a method for locating a POI (e.g. **POI Name**).

Enter the POI name using the keyboard.

Alternatively, select **List** to view all POI's alphabetically, or select **Categ.**, to search for a POI by category. For this example, we will search for the POI by **Category**.

Select the desired category from the POI list (e.g. **Community**).

From the Community POI list, select the desired POI type (e.g. **Town Hall**).

Enter the name of the POI using the keyboard. Once enough letters have been entered, a list of possible POI's is displayed. Use the arrow buttons to scroll through the list and select the chosen POI (e.g. **Abingdon Town Hall**).

A map of the POI location is displayed. Use the arrow icons to fine-tune the POI location (if required), then select **Waypoint**.

A confirmation screen is displayed briefly, before the display returns to the Route Options menu.

Select **Destination/Waypoint** to add another waypoint for your journey or select **Calculate** to let the system calculate your route.

If you choose to add another waypoint, follow the same process again, but after the waypoint location map is displayed and Waypoint is selected, a list of the waypoints and the destination is displayed.

To add the waypoint to the route in the correct order, select the appropriate **Add** button alongside the list. In this example, as we are adding a second waypoint, select the **Add** button pointing between the first waypoint and the destination. The Route Options menu is displayed.

Select **Destination/Waypoint** to add another waypoint, or select **Calculate** to let the system calculate your route, incorporating any set waypoints.

The system will configure the selected route and the route guidance map is displayed, showing the waypoints (numbered) and destination.

Select **Start** to start route guidance.

POSTCODE

If you know the postcode of your destination, then use this facility to enter your destination. This facility is not available in all countries.

Select **Postcode** from the Destination menu, then enter the postcode of your waypoint or destination using the keyboard. Ensure that any spaces and punctuation are entered, otherwise the system may not recognise the postcode.

POSTCODE FORMATS

The following is a list of countries where the navigation system provides full postcode entry:

- Austria
- Belgium
- Denmark
- France
- Germany
- Italy
- Luxembourg
- Spain
- Switzerland
- United Kingdom

The following is a list of countries where the navigation system provides reduced postcode entry:

- Netherlands - The four numeric digits only, e.g. 4817.
- Sweden - Only the first three digits of the postcode can be entered, e.g. 162 00 must be entered as 162.

When the postcode has been entered, touch **OK**.

MAP

After selecting **Map** from the Destination menu, the local area map is displayed. If the destination or waypoint is not shown on the map, use the zoom button to increase the area.

Touch the arrow icons to scroll the map so that the circle is over the area for your destination or waypoint, zooming in if required.

Select **Destination** or **Waypoint** accordingly.

***Note:** A Destination must be entered before any Waypoints can be set.*

COORDINATES

If you know the coordinates of your destination they can be entered using this facility.

Select **Coordinates** from the Destination menu.

***Note:** The full latitude must be entered first before the longitude coordinates can be entered.*

Use the keypad to enter the Latitude, using the symbols for degrees (°), minutes (') and seconds ("), where appropriate.

Repeat the process to enter the Longitude of the destination.

When the coordinates have been entered, touch **OK**.

If the coordinates entered are not within the area the navigation DVD covers, a message will be shown. This can also occur if the incorrect coordinates have been entered.

MEMORY

Select **Memory** from the Destination menu.

The list of stored Memory Points is displayed. Use the arrow buttons to scroll through the list. Touch to select the memory point you wish to use as your destination. The details are displayed for confirmation.

PREVIOUS

This feature allows you to select a destination, previously entered into your navigation system, as a destination or as part of a route itinerary.

After selecting **Previous** from the Destination menu, the screen shows a list of stored previous destinations. The list can contain up to 20 stored locations. At this point you can select or delete a stored destination. Use the arrow buttons to scroll through the list, then touch to select your destination. The details are displayed for confirmation.

***Note:** Whilst driving, list scrolling is not active. You can only choose from the items shown at the top of the list.*

MOTORWAY

This enables you to select a motorway exit or entrance as a destination or as part of a route itinerary.

From the Destination menu, select **Motorway Entry/Exit**.

The process for setting a Motorway Entry/Exit as a destination is the same as that used for entering a Memory Point. See **TO ADD A MEMORY POINT** (page 111).

COMPASS

The map display can be orientated in two ways, North up, and Vehicle heading up.

VIEWING THE COMPASS SCREEN

Select the compass icon and the compass screen will be displayed.

In North up mode, the vehicle position arrow faces its direction of travel.

In heading up mode, the vehicle position arrow faces upwards towards the top of the map.

CHANGING THE ROUTE SETTINGS

This menu provides various methods of altering the current route. To view the Route Options menu, select **Route Options** from the main menu.

DETOUR

Select to create a detour from your current route.

ROUTE PREVIEW

This facility provides a turn-by-turn preview of the entire route. Use the icons at the bottom of the screen through the preview as follows:

Select to start playback of the route.

Select to jump to the destination or next waypoint.

Select to fast forward through the preview. Only available during playback.

Select to pause the preview playback.

Select to preview the route backwards, from the destination to the start point.

Select to jump back to the start point of the route.

Select to fast reverse through the route.

Note: *If waypoints have been included in the route, the preview/review will play or fast forward to the next/previous waypoint. Select the appropriate control to continue the preview.*

It is also possible to display POI icons on the preview. Select **Edit** on the preview screen.

Touch to highlight the POI categories that you wish to view on the route preview (e.g. **Petrol Station**). If the desired category is not listed, select **Other**, for the full list.

Note: *The Route Preview edit menu also allows you to change other playback settings, such as whether playback runs to the next waypoint/destination, or to the next POI on the route.*

DISPLAY ROUTE

Select to view an overview of the entire route.

TURN LIST

Select to view the list of roads, distance to travel on each road and a representation of each junction (roundabout etc.).

Use the arrow buttons to scroll through the list.

From the turn list, it is possible to select roads that you want to avoid on the route.

Select **Street Avoid** to view a list of the roads encountered along the route.

Touch to highlight (orange) the road(s) you wish to avoid (e.g. B4100).

A confirmation screen is displayed. Select **Yes** to confirm. The display returns to the Avoid Street menu. Select any other street from the list, using the arrow icons to scroll through the list.

If you need to cancel an Avoid Street selection, touch the relevant street icon from the list (the highlight disappears).

When the streets that need to be avoided have been selected (highlighted), select **Re-route**. The navigation system recalculates the route, avoiding the streets selected, and then returns to the route overview map screen.

Select **Start** to commence guidance.

CALCULATE

Select after changing any route options. The navigation system calculates the route to the destination, incorporating any changes made.

CANCEL GUIDANCE

Select to cancel guidance and clear the current route. A confirmation screen is displayed.

Select **Yes** to confirm.

AUTO VOICE GUIDANCE OFF

Touch to highlight (orange) to mute navigation route voice guidance. Touch again to deselect.

***Note:** The repeat last voice guidance icon operates normally, irrespective of whether voice guidance has been muted or not.*

POINTS OF INTEREST (POI)

The Navigation System DVD contains information about a large number of points of interest (POI). There are many categories of POI, including fuel stations, restaurants, railway stations and hospitals.

This chapter explains how to select a specific POI. A selected POI can be set as a destination.

From the **Destination Entry** menu, select **POI**.

Input the POI name, for example Petrol to display fuel stations on the map, or touch **List** for a list of POI's.

***Note:** If entering a POI name results in too many matches being listed, try entering the town name first. If you do not know the name of the POI you want, try selecting a POI category.*

Use the arrow buttons to scroll through the list of POI's.

Some POI's are sub-categorised. As an example, selecting **Community** will be further divided into:

- Community Centre.
- Exhibition Centre.
- Hospital.
- Park & Recreation.
- Town Hall

When the appropriate POI has been selected, the system begins to search for a route to that POI.

***Note:** POI icons can only be displayed up to the ½ mile (1 km) zoom level.*

For this example choose **Petrol Station** and **3D Petrol**.

A map screen showing the POI location is displayed. Touch the arrow icons to fine-tune the location if necessary. Select **Destination** or **Waypoint**, as appropriate, to set the POI either as your final destination or as a waypoint on route to your destination.

A confirmation screen is displayed, followed by the map screen showing the destination details and route settings.

Select **Start** to initiate guidance.

CATEGORY LIST



Restaurants



Car



Leisure



Travel



Shopping



Hotel



Community



Others

POI ICON DISPLAY

After selecting a category, the map display shows the location of each POI in the selected category, indicated by the appropriate POI icon.

For information about a particular POI, touch the desired POI icon.

CANCELLING POI ICON DISPLAY

If the display of POI icons is no longer required, they can be turned off as follows:

- Touch **POI** to return to the Quick POI menu and select **POI Off**, to cancel the display of POI icons on the map.

DEALER LOCATIONS

Details of Land Rover Dealers are held on the Navigation System DVD as a POI category. Certain Dealers may be located in areas that are not fully mapped on the DVD. If a route is set to one of these Dealers, guidance may only be possible to the nearest town centre; a warning message will be displayed.

If Land Rover Dealers (or certain other categories, such as airports) are selected, they will be displayed across all search areas.

ENTRY BY TOWN

If a town name is entered first, the points of interest listed will be restricted to those that exist in the chosen town.

- From the Input POI Name screen, touch **Town**.
- Enter the town name required.
- Touch **List** to display the list of possible towns.
- Select the town required.

The Input POI screen is displayed again.

- Enter the POI name required.

ENTRY BY CATEGORY

If a POI category is selected first, the points of interest listed will be restricted to that category.

OTHER SELECTION METHODS

The previous examples show the three basic methods of searching the POI database, i.e. POI name only, town before POI name, and category before POI name.

TOWN CENTRES

The POI database holds town centre locations. To select a town centre, proceed as follows:

- From the Input POI Name screen, enter the town name required in the **Name** text area. (Do not select the **Town** button.)
- Touch **List** to display the list of matches.
- For the town centre, select the entry showing the town name only.

The map is displayed showing the town centre location.

***Note:** In some cases, more than one town centre location may be listed.*

CATEGORIES AND SUB-CATEGORIES

The POI database is divided into a number of categories. Each main category is further divided into a number of sub-categories.

For example, the first entry in the list of Restaurant sub-categories, is **ALL**. This selects all of the Restaurant sub-categories.

To narrow the search, touch the **Town** button. This will display the alpha keyboard, to allow the desired town name to be entered.

SEARCH AREA

When searching the database, only points of interest in the current search area are included, except for the sub-categories marked 'All search areas' in the POI category list.

LIST BUTTON

The **List** button becomes active when sufficient characters have been entered for the navigation system to display a list of possibilities. The list is displayed automatically when the number of entries reduces to four or less.

You can also select **List** (when active) without entering a POI name. All the relevant points of interest will be displayed, e.g. in a selected town or category.

ALL BUTTON

The **All** button returns to searching all categories after selecting one specific category.

QUICK POI SELECTION

A total of five POI's can be selected for viewing on the route map.

CHANGING THE QUICK POI CATEGORIES

The six default Quick POI categories can be changed as required.

- From the map guidance screen, touch anywhere on the map.
- Touch the **POI** button.
- Select the Quick POI category that you wish to replace.

The screen shows the full list of POI categories.

- Select the new category required from the list.

The screen shows the new selection of category icons.

- Repeat for another category icon if required.
- Touch **OK** to apply the new settings.

SELECTING A QUICK POI CATEGORY

- Touch the map guidance screen, then touch the **POI** button. The screen shows the six categories currently selected for quick points of interest.

Note: The POI button will not be active if the zoom level is below 1 km (½ mile).

- Select up to five Quick POI categories to view on the map display. The chosen POI icons are displayed in boxes at the top of the screen.

If the POI you require is not one of the six Quick POI's, select **More** to view further POI's.

Select a category from the eight listed, to view the sub-categories, or select **List all Categories** to view all POI's alphabetically.

1. Use the arrow buttons to scroll through the list.
2. Select the required POI. The associated icon appears in one of the boxes at the top of the screen.
3. When all required POI's have been chosen, select **OK**.

The map guidance screen is displayed with chosen POI icons.

LOCAL POI SEARCH

This selects the points of interest in all categories within 32 kilometres (20 miles) of the vehicle.

- Touch the map guidance screen, select **POI**, then select **Local POI List**.

RDS-TMC OVERVIEW

Radio Data System-Traffic Master Channel (RDS-TMC) is a feature that detects traffic hold-ups on the road network. It uses radio programmes to seek these hold-ups.

Select **RDS-TMC** from the Navigation Setup menu to access the TMC menu.

Touch the **Change** button - the system begins a search of all radio stations being received in your locality.

The tuner will scan the FM frequency once and this may take a few minutes. 'Searching...' will be displayed while scanning is in progress.

When a station is found which is offering TMC information, the RDS name is shown on the list and the search for more stations will continue.

Note: In the United Kingdom the station giving TMC information is *Classic FM*.

You can stop the search at any time and select any stations presented on the list, by touching the **Change** button or the button next to the desired station in the list.

RDS-TMC Display

When a TMC signal is received, the icon in the top left of the map guidance screen will appear grey.

If a TMC signal is not being received, the icon will be shown with a bar through it.

The system will inform the driver of any roadworks, narrow road, contraflow, accidents, slippery road, diversion, information, parking information, congestion or other hazard.

The driver is informed of a traffic event as follows:

- A TMC Event icon shown on the map at the location of the event. See **RDS-TMC EVENT ICONS** (page 122)..
- Text can be displayed showing the details of each occurrence. Select by touching the TMC Event icon or by selecting **Show TMC Information** from the RDS-TMC menu.
- Voice guidance will describe the event on the route. This information will be repeated when the repeat last voice guidance button is selected.
- Dynamic route guidance, which calculates an alternative route when the system receives the traffic event warning.

Navigation system

- Traffic event list shows all events sorted by road name/distance on your selected route in a straight line or along your actual route.

The information regarding the hold-up is maintained and updated even if the vehicle crosses into another country.

RDS-TMC EVENT ICONS

Any traffic event (broadcast on TMC) in your area, will be displayed as a warning icon on the map and a more detailed alert may be displayed. Voice guidance will also inform you of the hold-up when an event icon exists on the current route.

This data is stored in the system for up to a maximum of 30 minutes.




The colour of the TMC icon changes in order to show the type and priority of a TMC event. The background colour of the icon returns to normal when there is no longer an event or hold-up, or if any re-route instructions are calculated.







The TMC Event icons appear on the navigation map display to indicate the location and nature of a TMC event.

Note: TMC Event icons will appear on the map, even if the event does not occur on your route.

Icon category, classification, priority and colours are shown as follows:

LEVEL 1 TMC EVENT ICONS

	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)

LEVEL 2 TMC EVENT ICONS

	Other Hazard (Yellow)
	Slippery Road (Yellow)
	Diversion (Yellow)
	Roadworks (Pink)
	Narrow Road (Pink)
	Contraflow (Pink)
	Accidents (Pink)
	Parking Information (Grey)
	Information (Grey)



Congestion (Red)

USING EVENT ICONS

If you require further information about a traffic event, touch the event icon on the map screen.

The map display will zoom in on the event icon and an additional icon is displayed to identify the nature of the event (e.g. road works) and a message box appears at the top of the screen. Select **Info** for further detail of the traffic event.

The detailed information appears alongside a reduced map screen.

Touch the return button (arrowed) to return to the map guidance screen.

USING TMC

Dynamic route guidance will calculate an alternative route to avoid a traffic event, when the system receives an event warning.

The system calculates a new route for all sections. However, if any way points are set, the system calculates for the next way point.

If the event on route is serious (closed road) or if the new route is shorter than the current one and the current one was not recalculated within the last 5 minutes, then a message to confirm the new route will be displayed. This pop-up message will be displayed for 10 minutes and if the new route is not rejected, then the vehicle will follow the new route.

VOICE GUIDANCE

While voice guidance is on, the system will give audio guidance for traffic events on route.

If the on route event icon is touched (see See **ON ROUTE EVENT ICON** (page 123).), with voice guidance switched on, the audio message will be repeated. If the icon is grey, the audio guidance function has been switched off and touching the icon will not repeat any message.

After the vehicle passes the event, you will be notified of the next nearest event on route.

Audio messages are not given if you are in that event.

TRAFFIC ON ROUTE

While the vehicle is on the guidance route, the system will generate a traffic event list for that route when you select **Traffic on Route**.

The traffic event list will identify the cause of the 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** button alongside the event list.

If a route is calculated but the vehicle is not on the highlighted route, a pop-up error message is displayed.

ON ROUTE EVENT ICON

The on route event icon will show a traffic event as a line of stationary vehicles with the distance to the start point of the event. Touch the icon to repeat audio guidance (when audio guidance is switched on).

The icon will be displayed on the map under the following conditions:

- The map scale is between 50 m and 4 km (1/32 mile and 2 miles).
- RDS-TMC setting is on and there are some events on the route.

The on route event icon will show the nearest event on the route and the distance to the event.

ALL TRAFFIC EVENTS

When the All Traffic Events button on the RDS-TMC setting screen is touched, all traffic events are listed by road name. If an event occurs on more than one road of your route, the system will list it with the first road name.

Each event is seen as text information from the menu.

While the list is being displayed the information is not updated.

When you select a road, the system shows traffic events, if there are any, with the basic information.

Note: *The maximum text length displayed is 24 characters.*

The basic information screen shows:

- Road number.
- Brief information of the event.
- Direction and distance to the start point of the event (in a straight line).

Up to 20 events can be shown in distance order from the current vehicle position. If the event list is longer than three the remaining can be seen by scrolling the screen.

When the **Map** button is touched, the map screen will display the place of the event start point. The scale is always 500 m (1/4 mile). If the event has finished, the map screen will still be displayed when the Map button is touched but no event icon will be shown on the map.

When the **Detail** button is touched, the system shows the detail of that event.

SHOW TMC INFORMATION

Select to choose which traffic events you wish to be warned of on the map guidance screen.

Use the arrow buttons to scroll through the list of traffic event types. Touch to highlight (orange) the traffic events required.

Select **All On** or **All Off** to highlight all or none of the options.

Select **OK** to confirm.

SURVEILLANCE SETTING

It is possible to set a TMC surveillance area which can be viewed at any time.

RDS-TMC radio data for the selected surveillance area must be available and TMC must be enabled, in order to show TMC events in this area

This is a convenient feature for setting an area through which you frequently travel and which may be subject to slow or stationary traffic.

Up to three surveillance areas can be stored.

From the RDS-TMC menu, select **Surveillance Setting**.

Select **Add**.

Choose any of the methods above to select a surveillance area. Setting the location of a surveillance area is similar to entering a destination or waypoint.

If you select Map you can position the area accurately by zooming in.

Choose to save as any one of the three choices.

The map will display the saved area.

ACCESSING A SURVEILLANCE POINT

Select the surveillance icon 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 waypoint.
- Select **POI** to view POI's in the locality of the surveillance point.
- Select the marker pin button to set the surveillance point as a memory point.

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TYRE REPAIR KIT



If you are in any doubt regarding your ability to carry out the instructions, contact your Dealer/Approved Repairer before attempting the repair.

Your vehicle may not be equipped with a spare tyre. If this is the case, your vehicle will be fitted with a Land Rover tyre repair kit which can be used to repair one tyre. It is essential that you read the following guide before attempting to repair a tyre.

The tyre repair kit seals most punctures with a maximum diameter of 6 mm (1/4 inch).

The tyre repair kit is located in the rear underfloor storage compartment.

Note: The sealant used in the tyre repair kit has a shelf life, and the expiry date is shown on the top of the bottle. Ensure that the bottle is replaced before the expiry date.

SAFETY INFORMATION



Some tyre damage may only be partially sealed, or may not seal at all, depending on the amount and type of damage. Any loss of tyre pressure can seriously affect vehicle safety.



Do not use the tyre repair kit if the tyre has been damaged by driving while under inflated.



Only use the tyre repair kit to seal damage located within the tyre tread area.



Do not use the tyre repair kit to seal damage to the tyre sidewall.



Do not exceed 80 km/h (50 mph) when a repaired tyre is fitted to the vehicle.



The maximum distance that should be driven when a repaired tyre is fitted, is 200 km (125 miles).



When a repaired tyre is fitted, drive with caution and avoid sudden braking or steering manoeuvres.



Only use the tyre repair kit for the vehicle with which it was supplied.



Do not use the tyre repair kit for any other purpose than tyre repair.



Never leave the tyre repair kit unattended when in use.



Only use the tyre repair kit within the -30°C to +70°C temperature range.



Always keep children and animals at a safe distance from the tyre repair kit when in use.



Do not stand directly beside the compressor when it is operating.



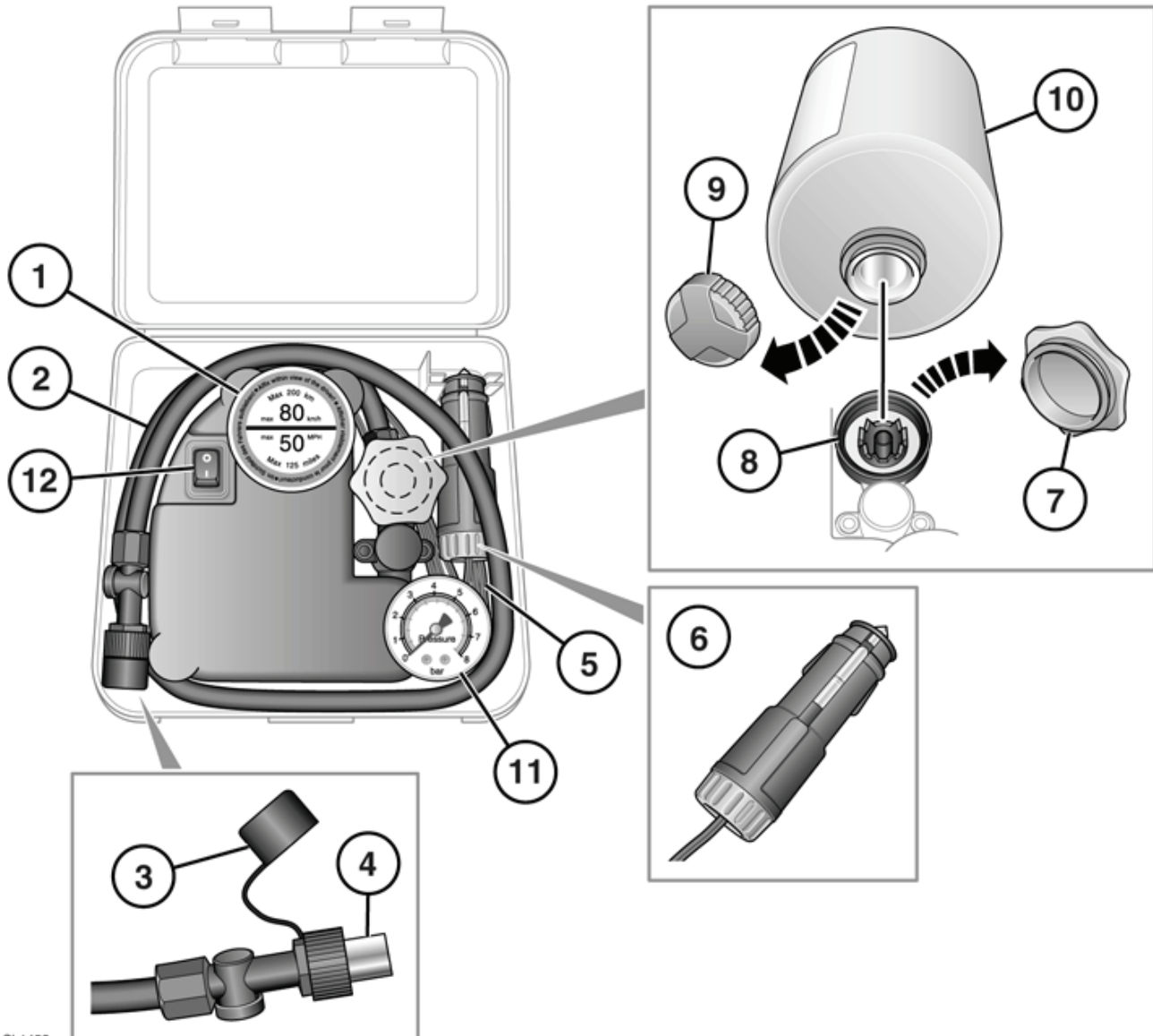
Check the tyre sidewall prior to inflation. If any cracks, damage, or deformities are apparent do not inflate the tyre.



Watch the tyre sidewall during inflation. If any cracks, damage, or deformities are apparent switch off the compressor, and deflate the tyre.

Tyre repair kit

LAND ROVER TYRE REPAIR KIT



SL1452

1. Maximum speed label. 80 km/h (50 mph).
2. Tyre inflation hose.
3. Inflation hose protective cap.
4. Inflation hose connector.
5. Compressor power cable.
6. Power cable connector.
7. Sealant bottle receiver cap (orange).
8. Sealant bottle receiver.
9. Sealant bottle cap.
10. Sealant bottle.
11. Tyre pressure gauge.
12. Compressor on/off switch. (I = on, O = off).

USING THE REPAIR KIT



Avoid skin contact with the sealant which contains natural rubber latex.

Do not unscrew the sealant bottle from the receiver until it is empty, as sealant will leak out.



If the tyre inflation pressure does not reach 1.8 bar (26 lb/in²) within seven minutes, the tyre may have suffered excessive damage. A temporary repair will not be possible, and the vehicle should not be driven until the tyre has been replaced.



Before attempting a tyre repair, ensure that the vehicle is parked safely, as far away from passing traffic as possible.



Ensure that the parking brake is applied, and P is selected if an automatic transmission is fitted.



Do not attempt to remove foreign objects such as nails, screws, etc. from the tyre.



Always run the engine when using the compressor, unless the vehicle is in an enclosed, or poorly ventilated space.



To prevent overheating do not operate the compressor continuously for longer than ten minutes.

Note: All vehicle drivers and occupants should be made aware that a temporary repair has been made to a tyre fitted to the vehicle. They should also be made aware of the special driving conditions imposed when using a repaired tyre.

REPAIR PROCEDURE



Check the tyre sidewall prior to inflation. If there are any cracks, bumps or similar damage, do not attempt to inflate the tyre. Do not stand directly beside the tyre while the compressor is pumping. Watch the tyre sidewall: If any cracks, bumps or similar damage appear, turn off the compressor and let the air out by means of the pressure relief valve. Do not continue to use the tyre.

1. Open the tyre repair kit and peel off the maximum speed label. Attach the label to the fascia in the driver's field of view. Take care not to obstruct any of the instruments or warning lights.
2. Uncoil the compressor power cable and the inflation hose.
3. Unscrew the orange cap from the sealant bottle receiver, and the sealant bottle cap.
4. Screw the sealant bottle into the receiver (clockwise) until tight.
 - Screwing the bottle onto the receiver will pierce the bottle's seal.
5. Remove the valve cap from the damaged tyre.
6. Remove the protective cap from the inflation hose, and connect the inflation hose to the tyre valve. Ensure that the hose is screwed on firmly.
7. Ensure that the compressor switch is in the off (O) position.
8. Insert the power cable connector into an auxiliary power socket.
9. Unless the vehicle is in an enclosed area, start the engine.
10. Set the compressor switch to the on (I) position.

11. Inflate the tyre to a minimum of 1.8 bar (26 lbf/in²) and a maximum of 3.5 bar (51 lbf/in²).
 - When pumping the sealant through the tyre valve, the pressure may rise up to 6 bar (87 lbf/in²). The pressure will drop again after approximately 30 seconds.
12. During the inflation, switch the compressor off briefly to check the tyre pressure using the gauge mounted on the compressor.
 - It should not take longer than seven minutes to inflate the tyre. If after seven minutes the tyre has not reached the minimum pressure, the tyre should not be used.
13. Once the tyre has been inflated, switch off the compressor. If desired, the engine may be turned off after the compressor has been turned off.
14. Remove the power connector from the auxiliary power socket.
15. Remove the inflation hose from the tyre valve by unscrewing it as quickly as possible (anticlockwise).
16. Replace the inflation hose protective cap, and the tyre valve cap.
17. Do not remove the sealant bottle from the receiver.
18. Ensure that the tyre repair kit (including the bottle, and receiver caps) are placed securely in the vehicle. You will need to use the kit to check the tyre pressure after 3 km (2 miles) so ensure they are easily accessible.
19. Immediately drive the vehicle for 3 km (2 miles) to allow the sealant to coat the inner surface of the tyre and form a seal at the puncture.

CHECKING THE TYRE PRESSURE AFTER A REPAIR



When driving the vehicle, if you experience vibrations, abnormal steering, or noises, reduce speed immediately. Drive with extreme caution and reduced speed to the first safe place to stop the vehicle. Visually examine the tyre, and check its pressure. If there are any signs of damage or deformity to the tyre, or the tyre pressure is below 1.3 bar (19 lbf/in²), do not continue driving.



Consult a tyre repair centre, or your Dealer/Authorised Repairer for advice concerning the replacement of a tyre after using a tyre repair kit.

1. Drive the vehicle for 3 km (2 miles) then stop in a safe place. Carry out a visual examination of the tyre's condition.
2. Remove the protective cap from the inflation hose.
3. Screw the inflation hose connector firmly onto the tyre valve.
4. Read the tyre pressure from the gauge.
5. If the pressure of the sealant filled tyre is above 1.3 bar (19 lbf/in²) adjust the pressure to the correct value.
6. Ensure that the compressor switch is in the off position (**0**), and insert the power cable connector into an auxiliary power socket.
7. If the vehicle is in a well ventilated area, start the engine.
8. Switch on the compressor (**I**), and inflate the tyre to the correct pressure.
9. To check the tyre pressure turn off the compressor then read the pressure from the gauge.

- 10.** When the compressor is off, if the tyre pressure is too high, release the required amount of pressure using the pressure relief valve.
- 11.** Once the tyre is inflated to the correct pressure, switch off the compressor and remove the power plug from the auxiliary socket.
- 12.** Unscrew the inflation hose connector from the tyre valve, replace the tyre valve cap and the inflation hose connector protective cap.
- 13.** Do not remove the sealant bottle from the receiver.
- 14.** Ensure that the tyre repair kit (including the bottle, and receiver caps) are placed securely in the vehicle.
- 15.** Drive to the nearest tyre repair centre, or Land Rover Dealer/Authorised Repairer, for a replacement tyre to be fitted. Ensure that you make the repair centre aware that the tyre repair kit has been used before the tyre is removed.
- 16.** Both the tyre inflation hose, and the sealant bottle should be replaced once a new tyre has been fitted.



Only sealant bottles which are completely empty should be disposed of with normal household waste. Sealant bottles which contain some sealant, and the tyre inflation hose, should be disposed of by a tyre specialist, or your Land Rover Dealer/Authorised Repairer, in compliance with local waste disposal regulations.

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.

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

Several petroleum companies have announced the availability of reformulated fuels. 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 7% 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 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 4 litres (0.8 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.

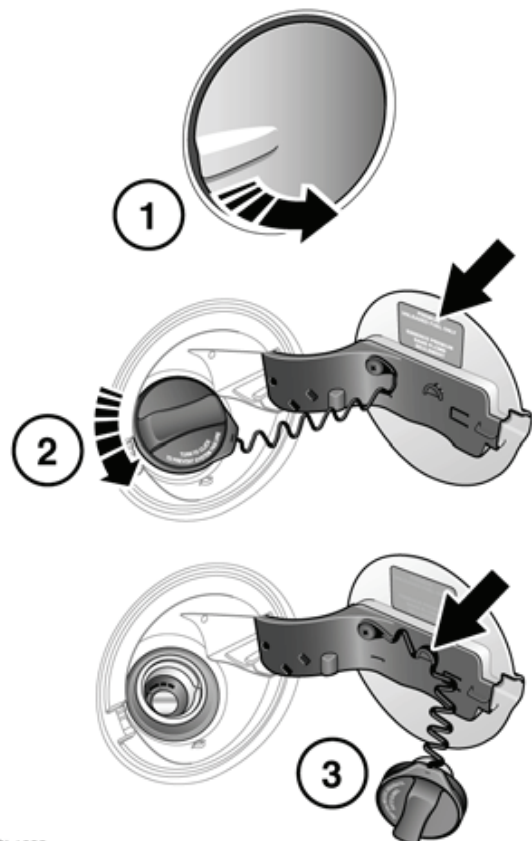
Note:

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.



SL1683

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 left side of the flap to open.

2. Open the flap fully and twist the cap anticlockwise to undo.
3. Use the retaining clip to keep the filler cap out of the way whilst fuelling.

FUEL FILLER



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.*

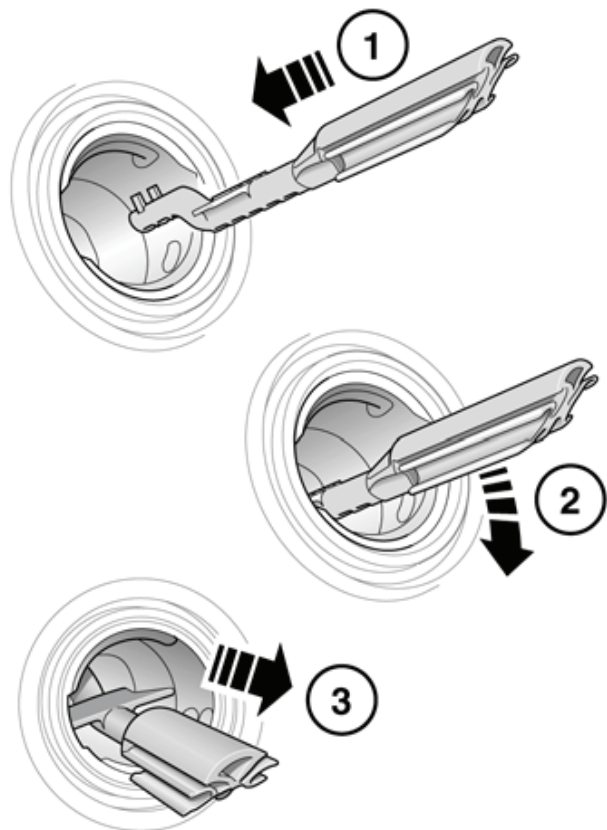
Diesel engine vehicles in some markets are equipped with a misfuelling protection device, incorporated into the fuel filler neck.

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.



SL1145

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 engines	70 litres (15.4 gallons)
Diesel engines	68 litres (15 gallons)

FUEL SPECIFICATION

Petrol	Diesel
91-98 RON	EN 590



Diesel vehicles in Algeria, Egypt, Libya, Morocco, India, Pakistan and Tunisia must only use 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
Diesel (manual)	7.4 (38.2)	5.6 (50.4)	6.2 (45.6)	165
Diesel (automatic)	8.7 (32.5)	5.7 (49.6)	7.0 (40.4)	185
Petrol	15.5 (18.2)	8.1 (34.9)	10.7 (26.4)	255

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).

For additional information on fuel consumption figures and exhaust emissions, visit the Vehicle Certification Agency (VCA) website at <http://www.vcacarfueldata.org.uk/>.



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.

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/clutch 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 and/or wading.
- Driving in extremely hot conditions.
- Towing a trailer or driving in mountainous conditions.

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.

DPF REGENERATION PROCEDURE



The regeneration procedure produces high temperatures in the DPF. Heat can be felt radiating from beneath the vehicle, which is normal. The heat generated could be sufficient to start a fire when in close proximity to combustible material.

If **DPF FULL SEE HANDBOOK** appears in the message centre, carry out the following procedure.

Note: At all times during this procedure you should observe all relevant speed limits, laws, and regulations.

1. Drive the vehicle until the engine reaches normal operating temperature. The engine should not be left idling to achieve working temperature.
2. Drive the vehicle for a further twenty minutes, keeping the vehicle at a constant speed between 75 km/h (45 mph) and 120 km/h (75 mph).

Note: Keeping a constant speed enables the DPF to regenerate more efficiently. It is therefore recommended that cruise control is used to achieve this, if possible.

3. If regeneration is successful the warning message will disappear. If the message remains, repeat the process.

Note: If the warning message remains after following the regeneration process three times, contact your Dealer/Authorised Repairer for assistance.

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.



Never leave the engine running in an unventilated area - exhaust gases are poisonous and extremely dangerous.




Do not work beneath the vehicle with the wheel changing jack as the only means of support.




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.

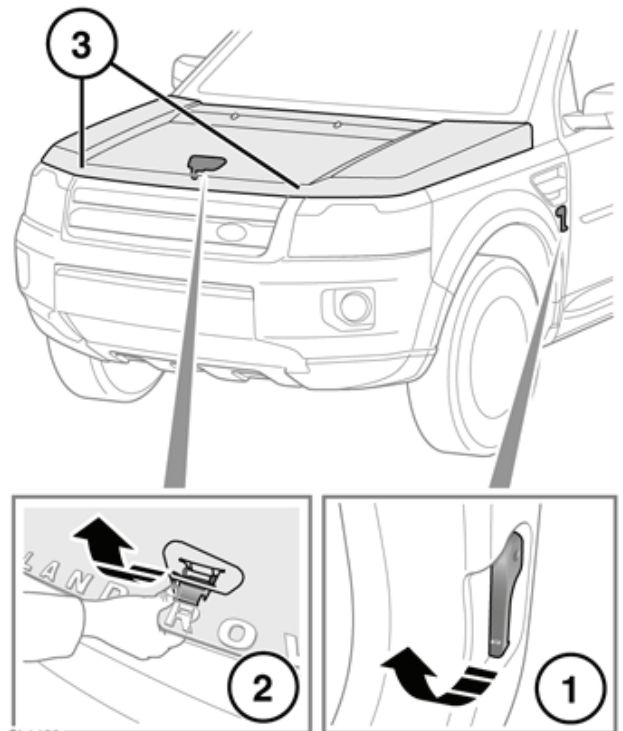
USED ENGINE OIL

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



SL1422

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.
3. When closing the bonnet ensure that both catches are securely latched.

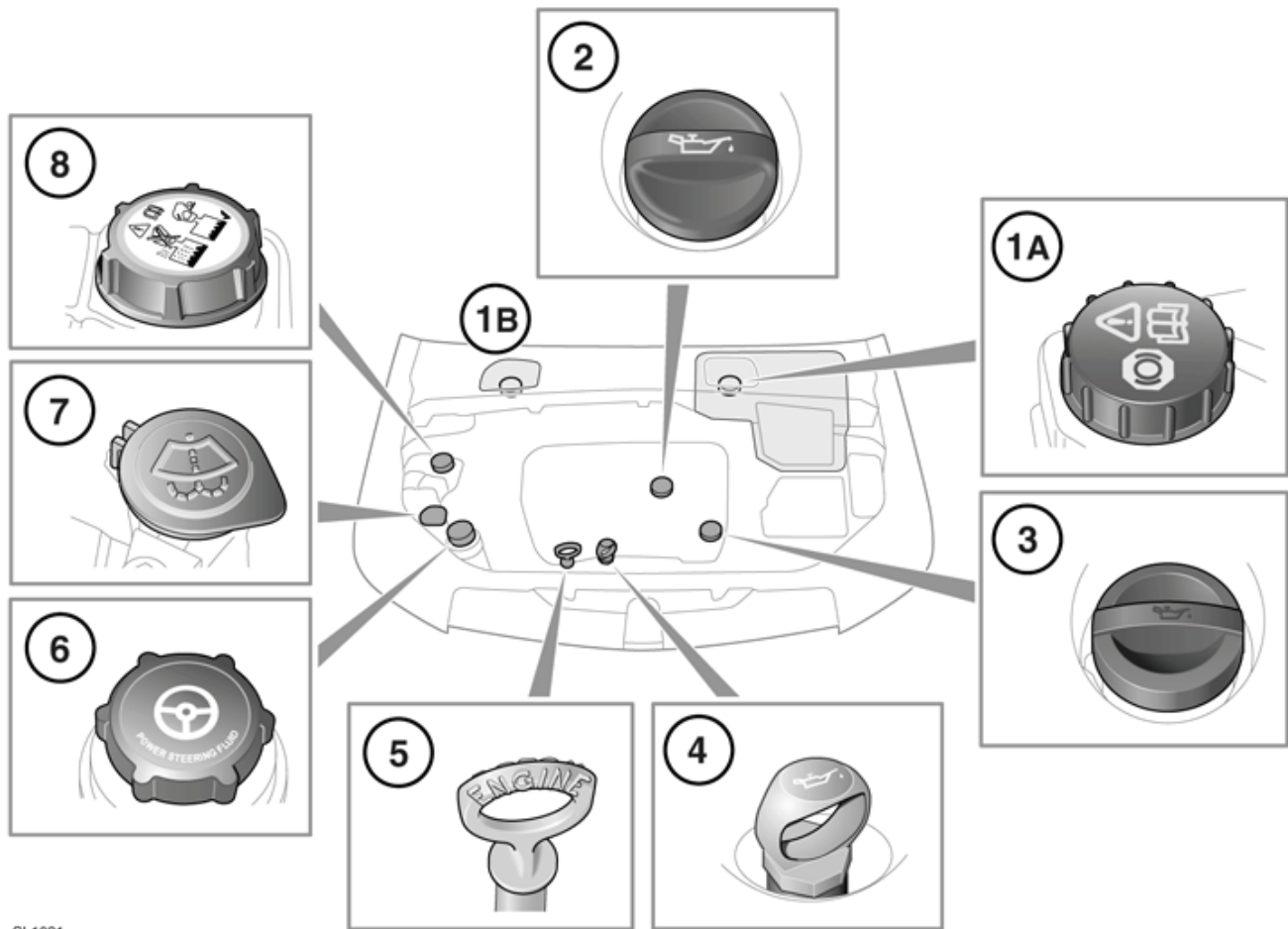
CLOSING



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



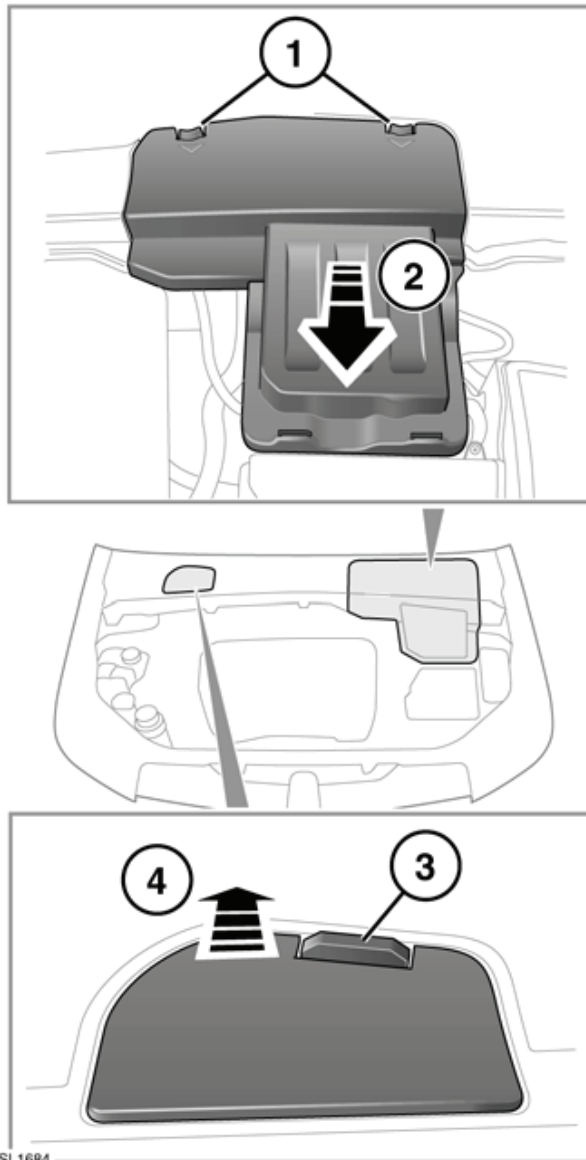
SL1031

1. Brake fluid reservoir cap:
 - A. Left-hand drive vehicles.
 - B. Right-hand drive vehicles.
2. Engine oil filler cap.
3. Engine oil filler cap.
4. Oil level dipstick.
5. Oil level dipstick.
6. Power steering fluid filler cap.
7. Windscreen washer fluid filler cap
8. 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.

UNDER BONNET COVERS - REMOVAL



1. Press the tabs to release the cover from the casing.

Note: Releasing the inboard tab on the front edge of the cover first will make it easier to release the remaining tabs.

2. Lift the front edge of the cover and slide forwards to remove.
3. Release the catch.
4. Remove the cover.

UNDER BONNET COVERS - REFITTING

- ⚠ Before refitting the underbonnet covers, ensure that no pipes, cables or other items, have been trapped between the cover and casing.

1. Slide the rear edge of the cover under the rubber trim fitted to the scuttle panel.
2. Make sure the front edge of the cover is flush to the casing, and then press down until the cover clicks into place.

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.

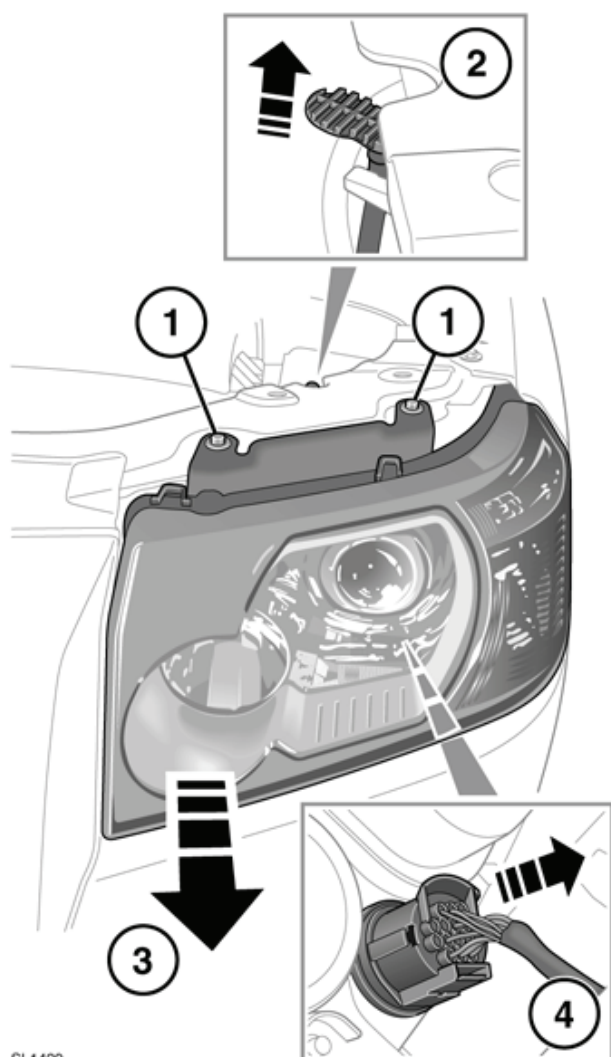
If a washer jet becomes blocked, use a thin strand of wire to unblock the jet by inserting the wire into the jet. Ensure that the wire is completely removed after unblocking. The washer jet position may also be adjusted by inserting the point of a needle into the jet and gently repositioning it.

CHANGING A BULB

- ⚠ Always replace bulbs with the correct type and specification. If you are in any doubt contact your Land Rover Dealer/Authorised Repairer for advice.

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.

REMOVING A HEADLAMP UNIT

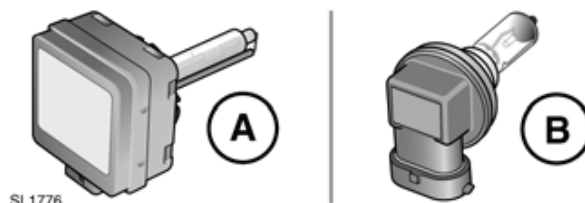


SL1429

! Do not place the removed lamp unit face down on hard or abrasive surfaces. Doing so may scratch the surface of the lens.

1. Undo and remove the two retaining bolts.
2. Pull up the locking lever to release the headlamp unit.
3. Pull the headlamp unit forward to allow access to the rear of the unit.
4. Disconnect the electrical connector from the back of the unit by pressing the tab and pulling the connector.

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 the glass part of the bulb with your fingers; always use a cloth to handle the bulb. If necessary use methylated spirits to remove finger prints.

XENON LAMPS



Replacement or maintenance of Xenon lamps should only be carried out 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.

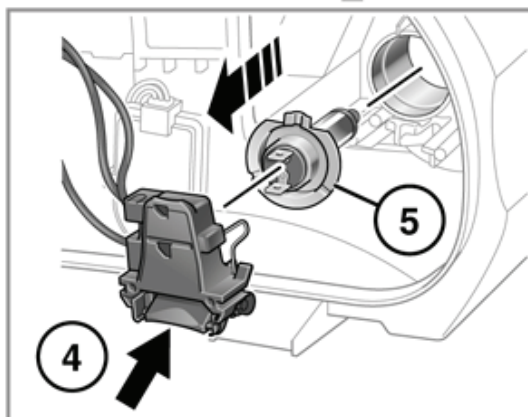
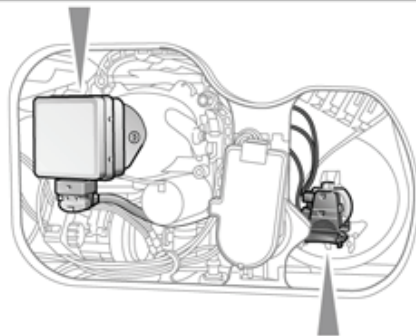
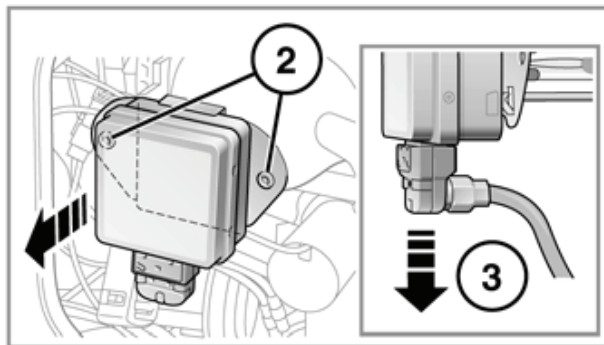
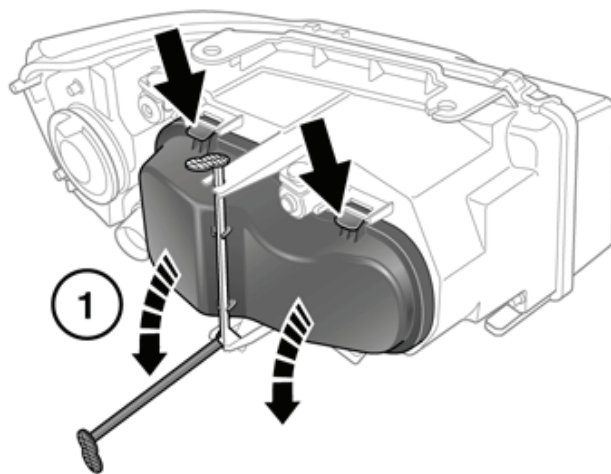


Xenon lamp units contain Mercury which is highly toxic and can be extremely harmful.



Seek advice about the correct disposal of Xenon lamp units from a Land Rover Dealer/Authorised Repairer, or your local authority.

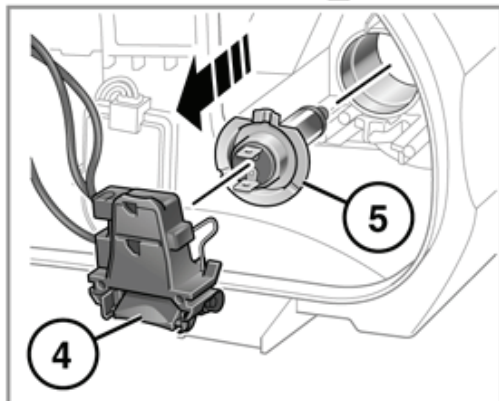
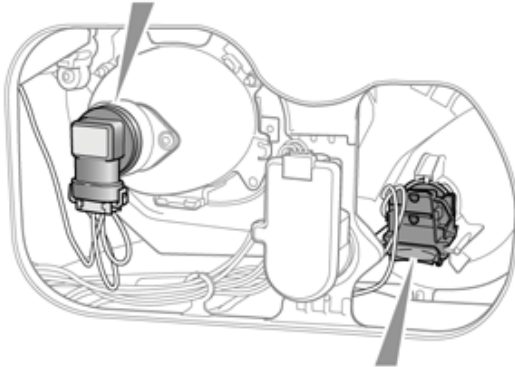
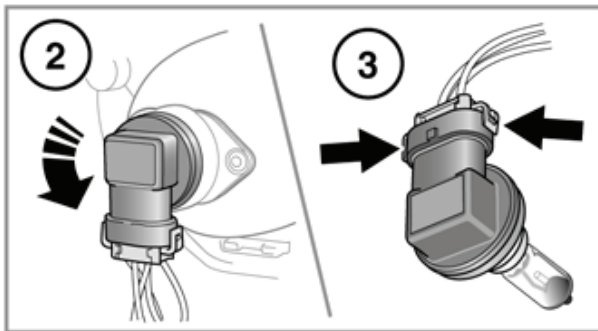
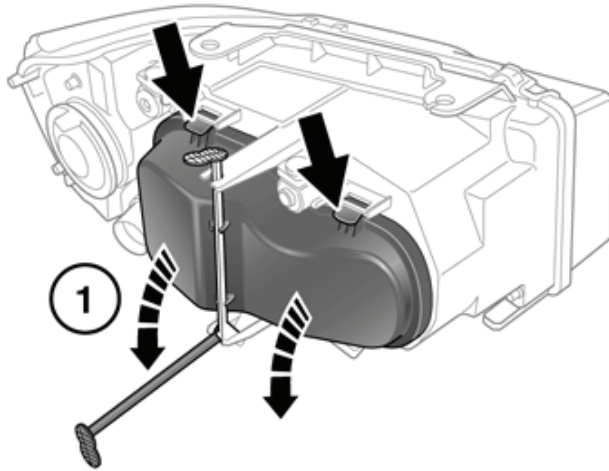
HEADLAMP BULB - COMBINED XENON AND HALOGEN



1. Unclip the locking lever, press down the two tabs and remove the cover.
2. Undo the two retaining screws and remove the Xenon unit.
3. Remove the connector from the Xenon unit.
4. Pull the connector off of the Halogen bulb.
5. Unclip the halogen bulb and remove it from the unit.

SL1430

HEADLAMP BULB - HALOGEN ONLY



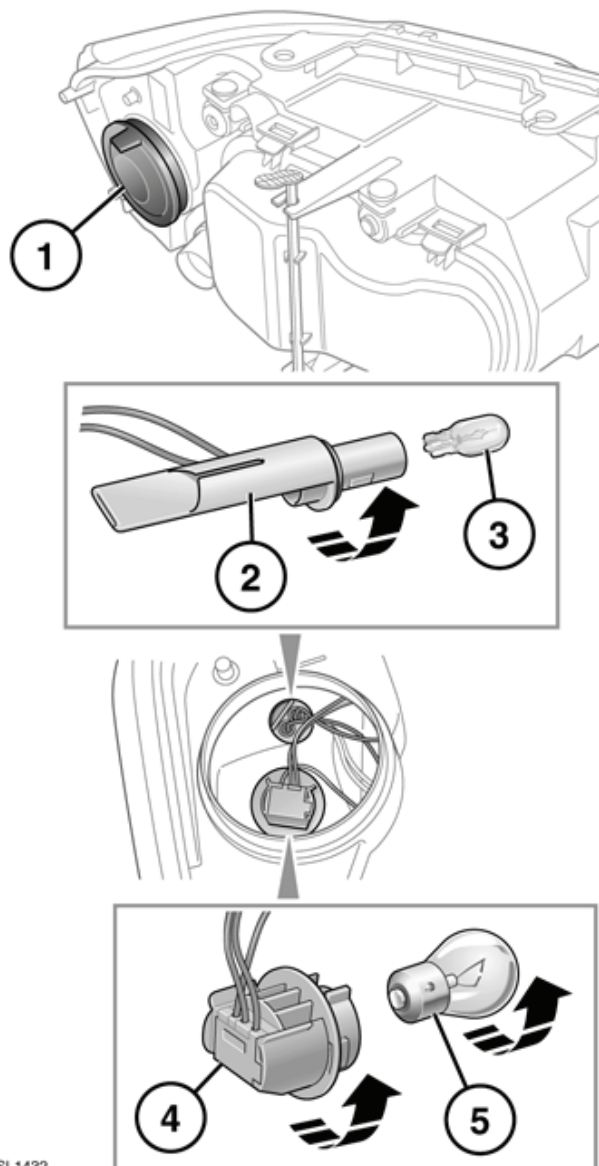
1. Unclip the locking lever, press down the two tabs and remove the cover.
2. Pull the Halogen dipped beam connector off of the bulb.

! 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.

3. Unclip the bulb and remove it from the unit.
4. Pull the main beam connector off of the bulb.
5. Unclip the bulb and remove it from the unit.

SL1431

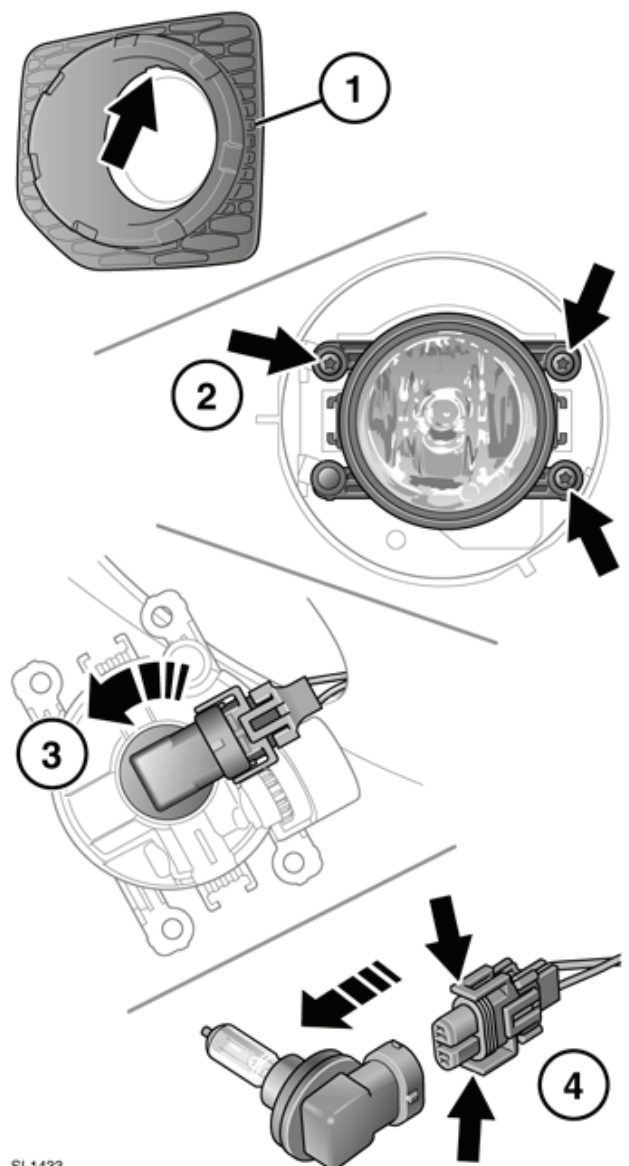
SIDE LAMP AND INDICATOR BULBS



SL1432

1. Remove the cover.
2. Twist the side lamp bulb holder and remove it from the lamp unit.
3. Pull bulb from holder to remove.
4. Twist the indicator bulb holder, and remove it from the lamp unit.
5. Press the bulb into the holder, then twist it and remove.

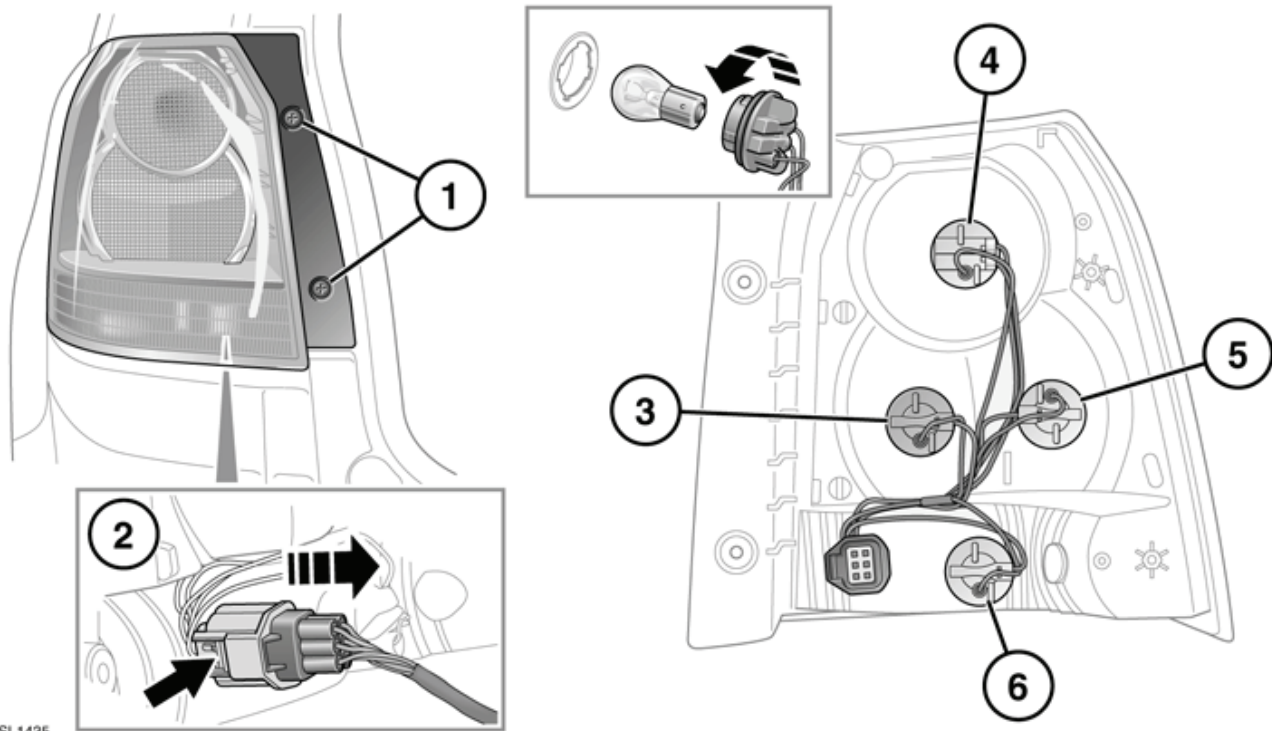
FRONT FOG LAMP BULB



SL1433

1. Using the slot at the top of the lamp surround, lever out with a suitable implement to remove.
2. Undo the three retaining screws, and remove the lamp unit.
3. Rotate the bulb holder (anticlockwise) and remove from the lamp unit.
4. Press the two clips together, and remove the electrical connector.

CHANGING REAR LAMP BULBS

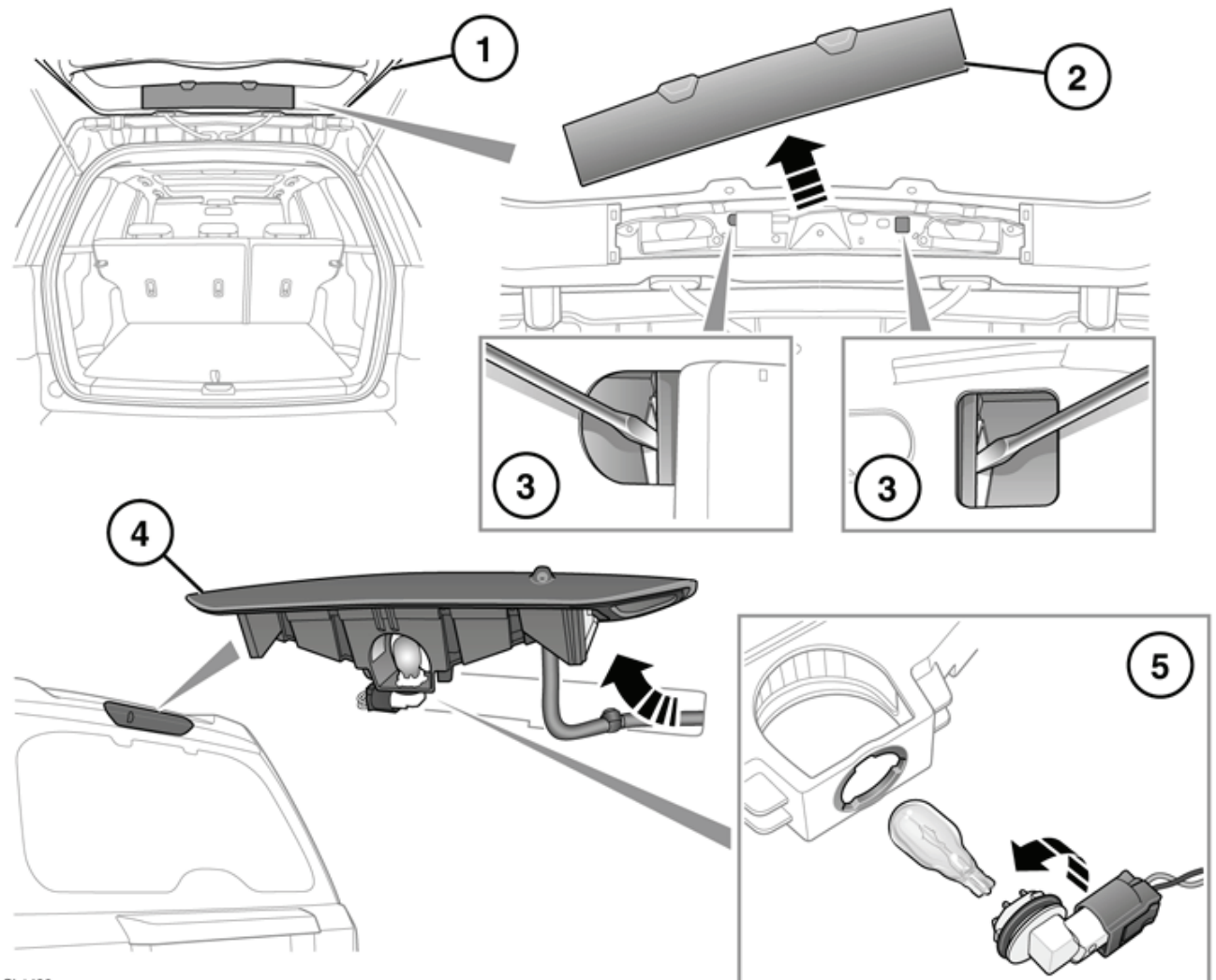


SL1435

1. With the tailgate open, remove the two screws from the inner edge of the unit.
2. Pull the unit carefully away from the vehicle, disconnect the electrical connector and remove the unit from the vehicle
3. Direction indicator.
4. Stop/tail lamp.
5. Reversing lamp
6. Rear fog lamp.

Twist the relevant bulb unit and pull to access the bulb. Push, twist and pull to remove the bulb.

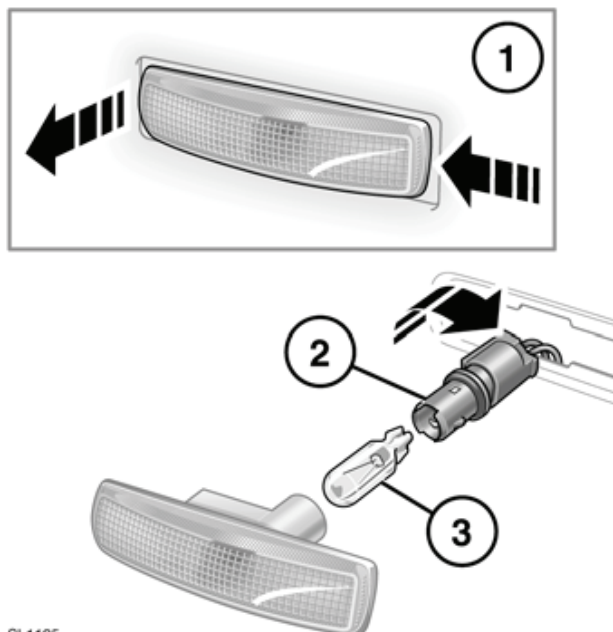
HIGH LEVEL BRAKE LAMP



SL1436

1. Open the tailgate.
2. Remove the interior trim cover.
3. Using a suitable implement, press in the lamp unit retaining clips and close the tailgate.
4. Remove the lamp unit from the tailgate.
5. Rotate the bulb holder and remove it from the lamp unit, then pull the bulb from the holder.

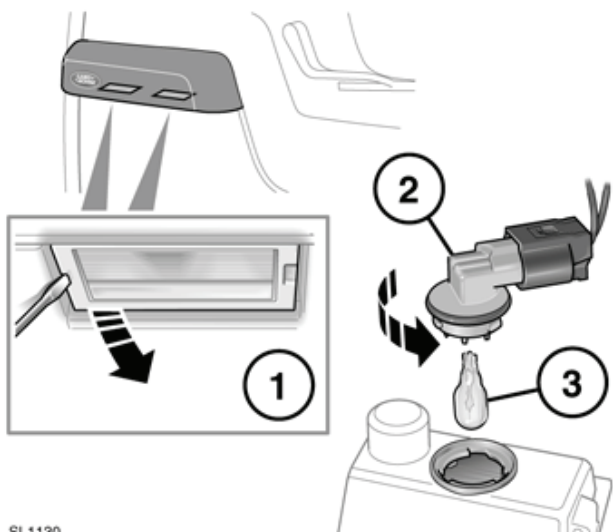
SIDE REPEATER LAMP BULB



SL1125

Follow the steps illustrated. Insert a new bulb and refit the components.

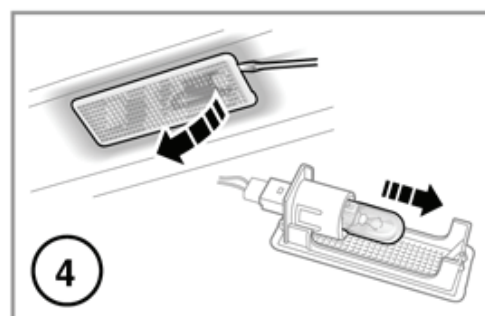
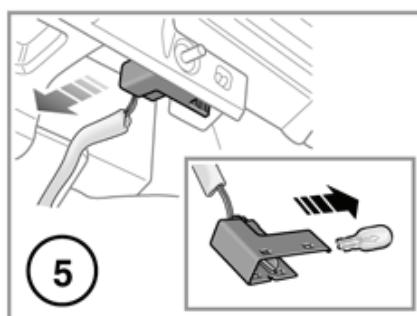
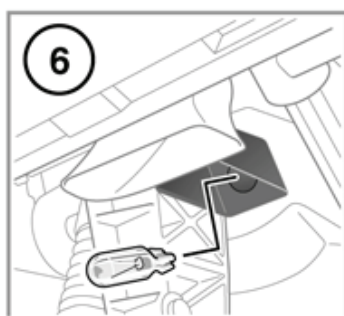
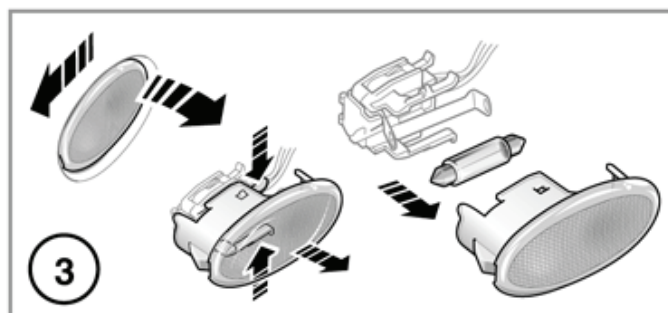
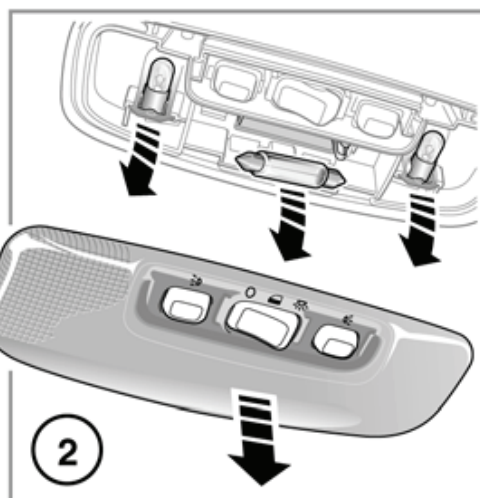
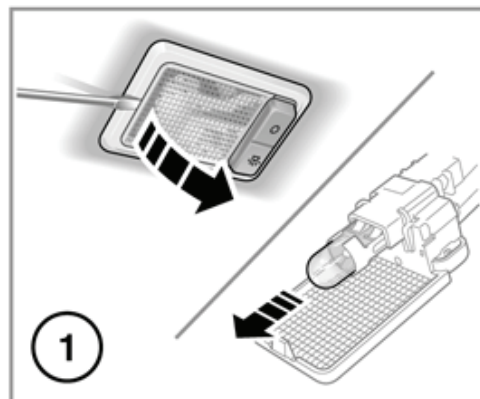
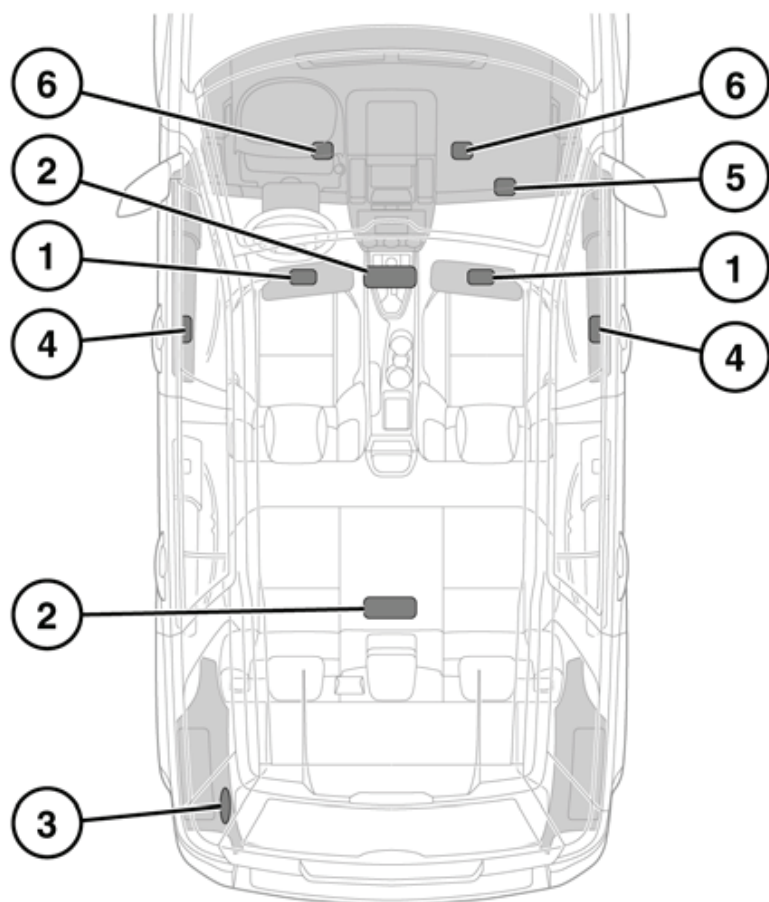
LICENCE PLATE LAMP BULB



SL1130

Follow the steps illustrated. Insert a new bulb and refit the components.

INTERIOR LAMPS - BULB CHANGING



SL1439

Follow the steps illustrated. Insert a new bulb and refit the components.

1. Vanity mirror lamps.
2. Courtesy lamp and map lamps.
3. Load space lamp.
4. Puddle lamps.
5. Glove box lamp.
6. Footwell lamps.

WINDOW RESET

The windows will need to be reset if the battery is disconnected, becomes discharged or power supply is interrupted.

Reset as follows:

1. Close the window fully.
2. Release the switch, then lift it to the close position and hold for 1 second.
3. Repeat the procedure on each window.

SUNROOF RESET

If the battery is disconnected or the power supply is interrupted whilst the sunroof is partially open, it will need to be recalibrated.

Once 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 tilted position.
3. Press the front of the sunroof switch and hold for 20 seconds.
4. After 20 seconds, the sunroof will begin to move. Keep the front of the switch pressed until the fully open/close cycle has completed.
5. Once the sunroof has stopped moving, release the switch.

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.

PARTS AND ACCESSORIES



The fitting of non-approved parts and accessories, or the carrying out of non-approved alterations or conversions, may be dangerous and could affect the safety of the vehicle and occupants and also invalidate the terms and conditions of the vehicle warranty.



Land Rover will not accept any liability for death, personal injury or damage to property which may occur as a direct result of fitment of non-approved accessories or the carrying out of non-approved conversions to Land Rover vehicles.

CLEANING THE EXTERIOR

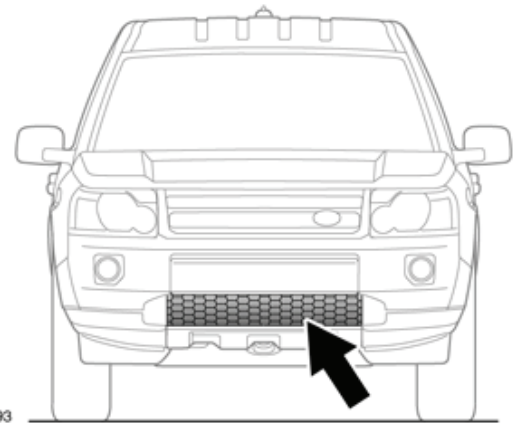
- ⚠ Never aim the water jet directly at the engine air intake, heater air intakes, body seals (doors, sunroof, windows etc.) or at any components which may be damaged (lights, mirrors, exterior trim etc.).
- ⚠ Do not use a power wash system in the engine bay area.
- ⚠ Following cleaning of the vehicle 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, can damage the vehicle's paintwork and should be removed as soon as possible.

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.


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.

To prevent ingrained dirt and staining, inspect the seat upholstery regularly and clean every 1 to 2 months as follows:

1. Wipe off fine dust from the seat surfaces using a clean, damp, non-coloured cloth. 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.

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: *Whilst 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 only be cleaned using 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.

TOUCH SCREEN CARE

- Clean with a lightly moistened cloth.
- Do not use chemical agents or domestic cleaners.
- To prevent errors occurring, ensure that only one finger at a time is in contact with the screen.
- Do not use excessive pressure.
- Do not allow sharp, hard or abrasive objects to make contact with the screen.
- Avoid exposing the screen to direct sunlight for long periods.

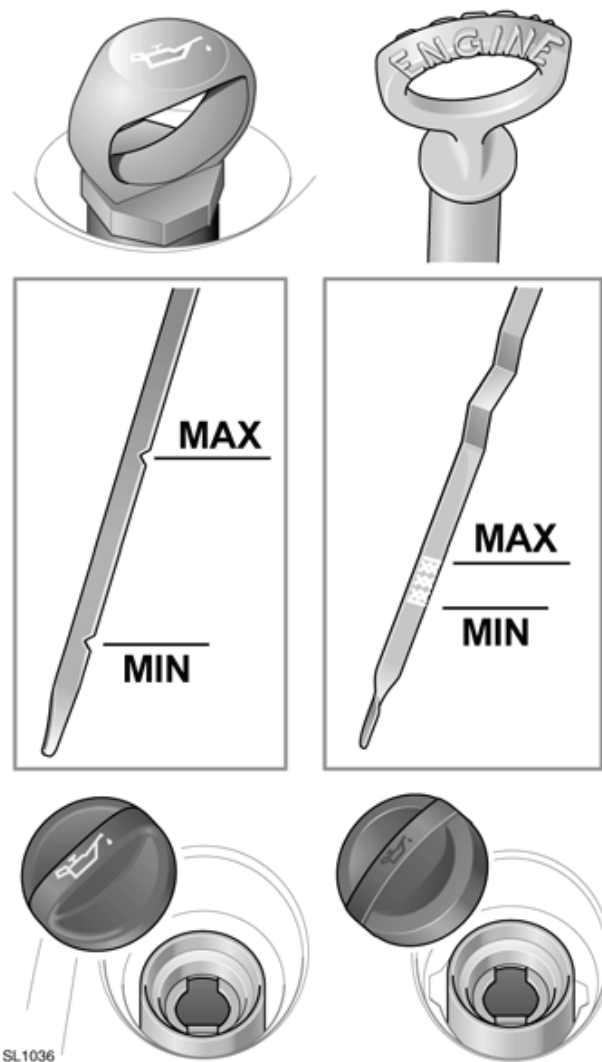
ENGINE OIL CHECK

The oil consumption of an engine is influenced by many factors. Under high loads an engine will consume more oil than usual. Diesel engines consume slightly more oil than petrol engines.

Check the oil level weekly, when the engine is cold and with the vehicle resting on level ground.

CHECKING THE OIL LEVEL

Note: If it is necessary to check the oil level when the engine is hot, switch off the engine and let the vehicle stand for five minutes to allow the oil to drain back into the sump. Do not start the engine.



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 or notch than the lower, add no oil.
- Is nearer to the lower mark or notch than the upper, add half a litre (one pint) of oil.
- Is below the lower mark or notch, add one litre (two pints) of oil and re-check the level after a further five minutes.

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 to maintain the level between the **MIN** and **MAX** marks or notches on the dipstick. Clean up any oil spilled during topping-up.
3. Check the oil level again after 5 minutes.

It is essential to use the correct specification oil, and to ensure it is suitable for the climatic 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 1.2 litres (2.11 pints) - petrol models or 1.5 litres (2.64 pints) - diesel models.

ENGINE OIL SPECIFICATION

Model	Specification
Petrol engine	Use only 0W-30 engine oil, meeting ACEA A5/B5 specification.

Model	Specification
Diesel engine	Use only 5W-30 oil meeting Land Rover WSS-M2C913-B specification.

Land Rover recommends:



CHECKING THE COOLANT LEVEL

- ❗ 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.




SL1037

Fluid level checks

Ensure the coolant level remains between the level indicator marks located on the side of the expansion tank.


If the level has dropped suddenly, or by a large amount, the system may be leaking or overheating. Arrange for the vehicle to be examined by a qualified technician as soon as possible.

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 located on the side of the expansion tank. Use only a 50% mix of water and Texaco XLC antifreeze.


Note: *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.

 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% ± 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°C (68°F) is 1.068 and protects against frost down to -40°C (-40°F).

BRAKE FLUID CHECK

 **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.



Do not drive the vehicle with the fluid level below the MIN mark.

If the quantity of fluid in the brake/clutch reservoir drops below the recommended level, a red warning indicator in the instrument pack will illuminate.

Note: If the warning indicator illuminates while the vehicle is being driven, stop the vehicle as soon as safety permits by gently applying the brakes.

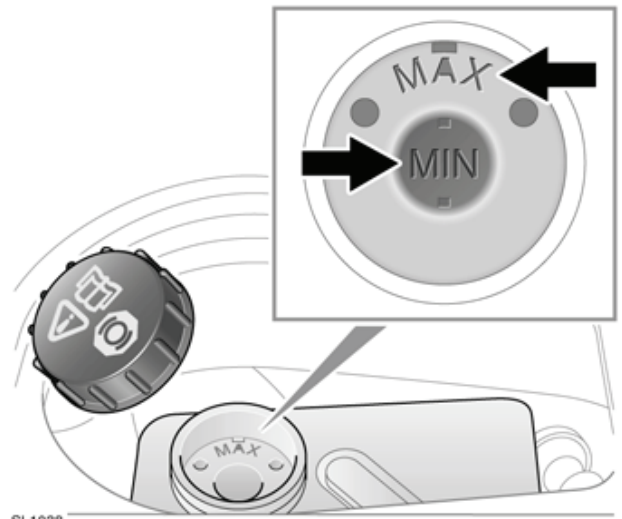
Check and top-up the fluid level if necessary.

CHECKING THE FLUID LEVEL



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.

With the vehicle on level ground, check the fluid level at least every week (more frequently in high mileage or arduous operating conditions).



SL1038

1. Clean the filler cap before removing to prevent dirt from entering the reservoir.
2. Remove the filler cap.
3. The brake fluid level should be between the **MIN** and the **MAX** marks.

The fluid level may drop slightly during normal use as a result of brake pad wear but should not be allowed to drop below the **MIN** mark.

TOPPING UP THE 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.

Fluid level checks

⚠ 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. Top-up the reservoir to the **MAX** 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.
2. Replace the cap.
3. Fit the reservoir cover in the reverse order of removal.

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.

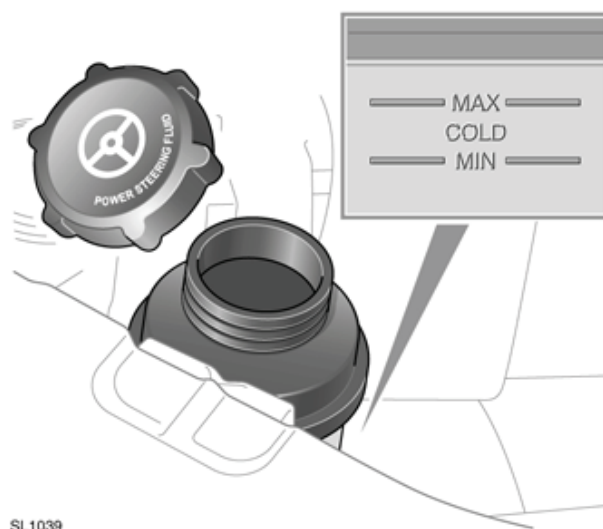
⚠ If the fluid comes into contact with the skin or eyes, rinse immediately with plenty of water.

CHECKING THE FLUID LEVEL

- ⚠ 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.



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 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.
 - ⚠ 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 Pentosin CHF202 fluid, 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 **flammable**, 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.

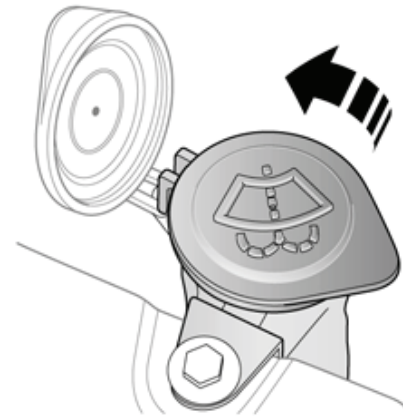


Body panels may suffer discolouration as a result of screen washer fluid spillage. Take care to avoid spillage, particularly if an undiluted or high concentration is being used. If spillage occurs, wash the affected area immediately with water.

LOW FLUID WARNING (VEHICLES FITTED WITH HEADLAMP WASH)

If the quantity of fluid remaining in the washer reservoir drops to less than one litre, the message **LOW WASHER FLUID** will be displayed in the message centre.

TOPPING UP THE FLUID



SL1040

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.

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.

Washer reservoir capacity

- Models without headlamp wash - 3.1 litres (5.45 pints).
- Models with headlamp wash - 5.8 litres (10.2 pints).

ENGINE DATA

	Diesel 150	Diesel 190	Petrol
Capacity	2 179 cm ³	2179 cm ³	3192 cm ³
Firing order	1-3-4-2	1-3-4-2	1-5-3-6-2-4
Compression ratio	15.8:1	15.8:1	10.8:1
Maximum torque	420 Nm at 1750 rpm	420 Nm at 1750 rpm	317 Nm at 3200 rpm
Number of cylinders	4	4	6
Power output	110 kW (150 PS) at 4000 rpm	140 kW (190 PS) at 3500 rpm	171 kW (233 PS) at 6300 rpm

LUBRICANTS AND FLUIDS

Part	Variant	Specification
Engine oil	Diesel vehicles	SAE 5W-30 meeting Ford specification 913-B.
	Petrol vehicles	SAE 0W-30 meeting specification ACEA A5 or B5.
Main gearbox oil	Manual transmission	Castrol BOT 350 M3
Main gearbox oil	Automatic transmission	Nippon AW-1
Power Transfer unit	All vehicles	Castrol BOT 118
Haldex coupling	All vehicles	STAT OIL SL01-301
Rear differential oil	All vehicles	Castrol EPX
Power steering fluid	All vehicles	Pentosin CHF202
Brake fluid	All vehicles	Shell DOT4 ESL. If unavailable, a low viscosity DOT4 brake fluid that meets ISO 4925 class 6 and Land Rover LRES22BF03 requirements may be used.
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	Diesel	68 litres (15 gallons)
	Petrol	70 litres (15.5 gallons)
Engine oil refill and filter change	Diesel	5.9 litres (10 pints)
	Petrol	7.5 litres (13.2 pints)
Manual gearbox	All vehicles	2 litres (3.5 pints)
Automatic gearbox	All vehicles	7 litres (12.3 pints)
Power Transfer unit	All vehicles	0.75 litres (1.3 pints)
HalDEX coupling	All vehicles	0.65 litres (1.1 pints)
Rear differential	All vehicles	0.7 litres (1.2 pints)
Washer reservoir	With headlamp wash	5.8 litres (10.2 pints)
	Without headlamp wash	3.1 litres (5.5 pints)
Cooling system (refill)	Diesel Manual	5.4 litres (9.5 pints)
	Diesel (aux heater) Manual	5.6 litres (9.9 pints)
	Diesel Auto	5.7 litres (10 pints)
	Diesel (aux heater) Auto	5.9 litres (10.4 pints)
	Petrol	6.5 litres (11.5 pints)

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.

Technical specifications

WEIGHTS

Variant	Vehicle weight from	Gross Vehicle Weight (GVW) ¹	Gross Train Weight ²
Diesel	1710 kg 3770 lbs	2505 kg 5520 lbs	4505 kg 9930 lbs
Petrol	1775 kg 3910 lbs	2505 kg 5520 lbs	4505 kg 9930 lbs

¹ The maximum permissible weight of the vehicle including passengers and load.

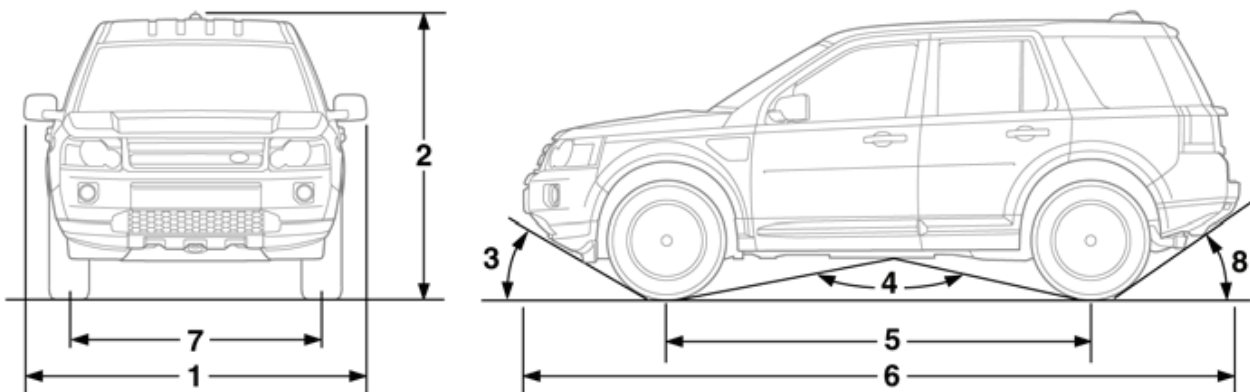
² The maximum permissible weight of the vehicle and braked trailer including their respective loads.

Variant	Maximum front axle load ¹	Maximum rear axle load ¹	Maximum roof rack load ²	Maximum payload
Petrol and Diesel	1310 kg 2885 lbs	1360 kg 2995 lbs	75 kg 165 lbs	500 kg 1100 lbs

¹ The front and rear axle maximum loads can not be reached simultaneously as this will exceed the GVW limit.

² This figure includes the weight of the roof rack.

DIMENSIONS



SL1453

Item	Description	mm (inches)	Degrees
1	Width	2195 (86.4)	-
1	Width (mirrors folded)	2005 (78.8)	-
2	Overall height	1830 (72.1)	-

Item	Description	mm (inches)	Degrees
3	Approach angle	-	31°
4	Ramp breakover angle	-	157°
5	Wheelbase	2660 (104.7)	-
6	Overall length	4500 (177.1)	-
7	Track - front	1601 (63)	-
	Track - rear	1614 (63.5)	-
8	Departure angle without tow hitch	-	34°
-	Departure angle with fixed height tow hitch	-	18°
-	Maximum wading depth	500/19.7	-
-	Ground clearance	210/8.3	-
-	Turning circle (kerb to kerb)	11.3m (37.1ft)	-

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.

Lamp	Specification	Power (Watts)
Halogen headlamp (low and high beam)	H11	55
Xenon headlamp (low and high beam)	D1S	35
Front side lamps	W5W	5
Front direction indicators	PY21W	21
Rear direction indicators	PY21W	21
Front fog lamps	H11	55
Side repeater lamps	W5W	5
Reverse lamps	P21W	21
Rear fog lamps	P21W	21
Stop/tail lamps	P21/5W	21/5
High mounted stop lamp	W16W	16
Number plate lamps	W5W	5
Puddle lamps	W5W	5

Technical specifications

Lamp	Specification	Power (Watts)
All Interior lamps	W5W	5

WHEELS AND TYRES

Wheel size	Tyre size	Speed rating
6.5J x 16	215/75 R16	H
7.5J x 17	235/65 R17	V
8.0J x 18	235/60 R18	V
8.0J x 19	235/55 R19	V
*7.0J x 17	*225/65 R17	*H
*7.0J x 17	*235/65 R17	*V

* Temporary use spare wheel.

BATTERY WARNING SYMBOLS



Do not allow naked flames or other sources of ignition near the battery, as the battery may emit explosive gases.



Ensure that when working near or handling the battery, suitable eye protection is worn, to protect the eyes from acid splashes.



To prevent risk of injury, do not allow children near the battery.



Be aware that the battery may emit explosive gases.



The battery contains acid which is extremely corrosive and toxic.



Consult the handbook for information, before handling the battery.

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.

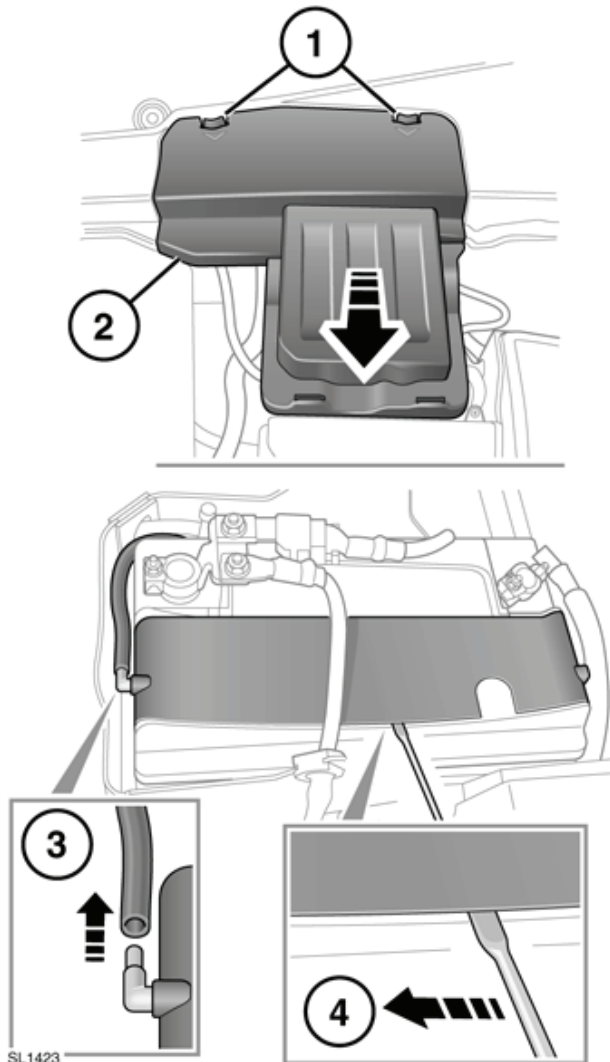
Vehicle battery



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.



1. Press the clips to release the back of the cover.

2. Slide the cover forward and lift it off.
3. Disconnect the vent tube.
4. Prise up the inner cover using a screwdriver blade or similar blunt implement. Run the screwdriver forward to release the inner cover edge.
5. Slide the inner cover out under the battery cable.

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.



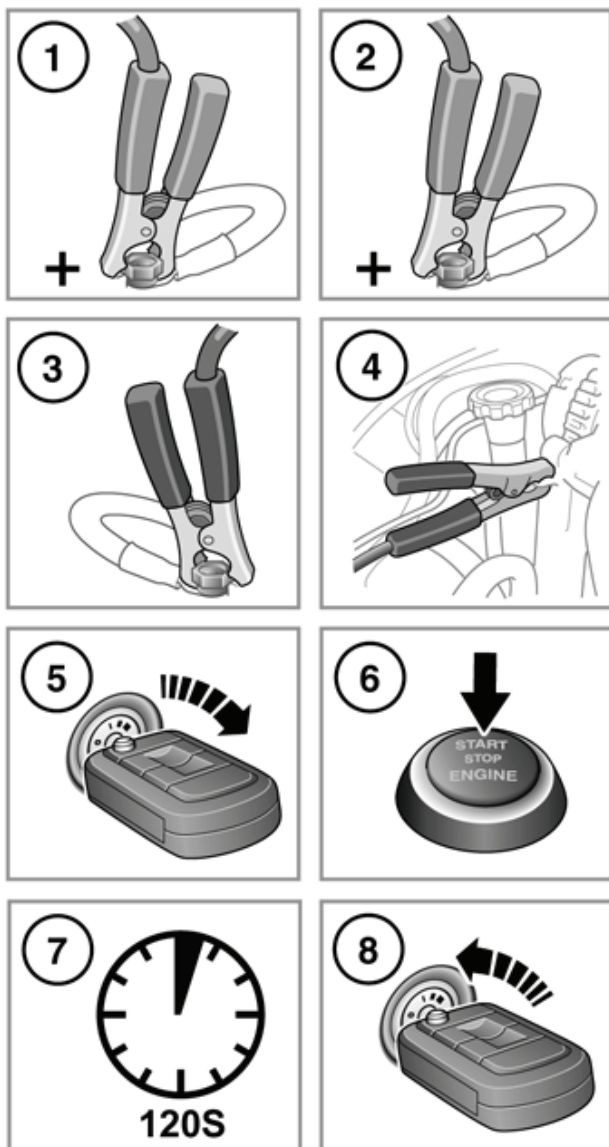
Make sure that the slave battery or starting aid is a 12 volt device.




Disconnect the battery 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



SL1424

 Switch off all electrical equipment before following this procedure. All electrical equipment must remain switched off until the procedure is complete.

 **Exercise extreme caution during this procedure to avoid contact with any components in the engine compartment that are moving at high speed, carrying high voltage, or hot.**

1. Connect one end of the positive 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 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.
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.
7. Allow both vehicles to idle for a few minutes.
8. Switch off the donor vehicle.
9. Disconnect the cables in the exact reverse order of that used for connection.

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 ground (-) 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.

CHARGING THE VEHICLE BATTERY



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 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.



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.



Always follow the instructions supplied with the battery charger. Failure to do so may result in damage to the battery.

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.

CHANGING THE VEHICLE BATTERY



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 remote control 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.

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 it's state when the battery was disconnected. If the alarm does sound, use the remote control in the normal way to disarm the security system. The windows may need recalibrating to operate correctly.

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.

TYRE CARE



Do not drive the vehicle if a tyre is damaged, excessively worn, or incorrectly inflated.



Avoid contaminating the tyres with vehicle fluids as they may cause damage to the tyre.



Avoid spinning the wheels. The forces released can damage the structure of the tyre, and cause it to fail.



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.

Note: Tyre condition should be checked after the vehicle has been used off-road. As soon as the vehicle returns to a normal, hard, road surface, stop and check for damage to the tyres.

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



Never drive your vehicle if the tyre pressures are incorrect.

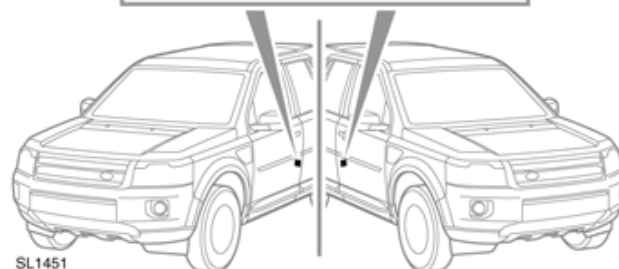
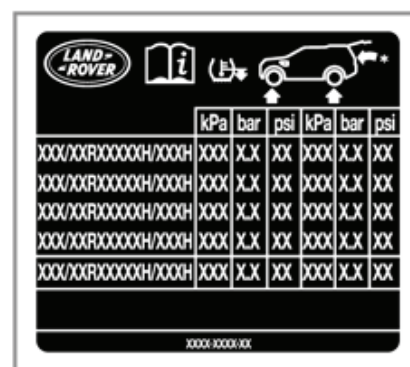


Pressure checks should only be carried out when the tyres are cold, and the vehicle has been stationary for more than three hours. A hot tyre at, or below, recommended cold inflation pressure, is dangerously under-inflated.



If the vehicle has been parked in strong sunlight, or used in high ambient temperatures, do not reduce the tyre pressures. Move the vehicle into the shade and allow the tyres to cool before re-checking the pressures.

CHECKING THE TYRE PRESSURES



Tyre information label location.



Tyre pressures should be checked regularly using an accurate pressure gauge, when the tyres are cold.

The following procedure should be used to check and adjust the tyre 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.

PRESSURE COMPENSATION FOR AMBIENT TEMPERATURE CHANGES

A colder ambient local temperature will reduce pressure within the tyre. An effect is to decrease sidewall height and to increase tyre shoulder wear 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.

To compensate for colder ambient temperatures, tyre pressures should be increased by 0.14 bar (2 psi, 14 kPa) for each 10°C (20°F) decrease.

Note: *Ensure that correct tyre pressures are maintained when moving to areas of differing ambient temperature.*

TYRE PRESSURE COMPENSATION CHART - HIGH AMBIENT TEMPERATURES

Tyre pressure temperature compensation	
Ambient temperature °C (°F)	Pressure compensation bar (psi, kPa)
20 (68)	use label
30 (86)	+ 0.14 (2, 14)
40 (104)	+ 0.28 (4, 28)
50 (122)	+ 0.41 (6, 41)

FLAT SPOTS

In order to minimise flat spotting, the 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 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.



Never fit traction devices to a temporary use spare wheel.

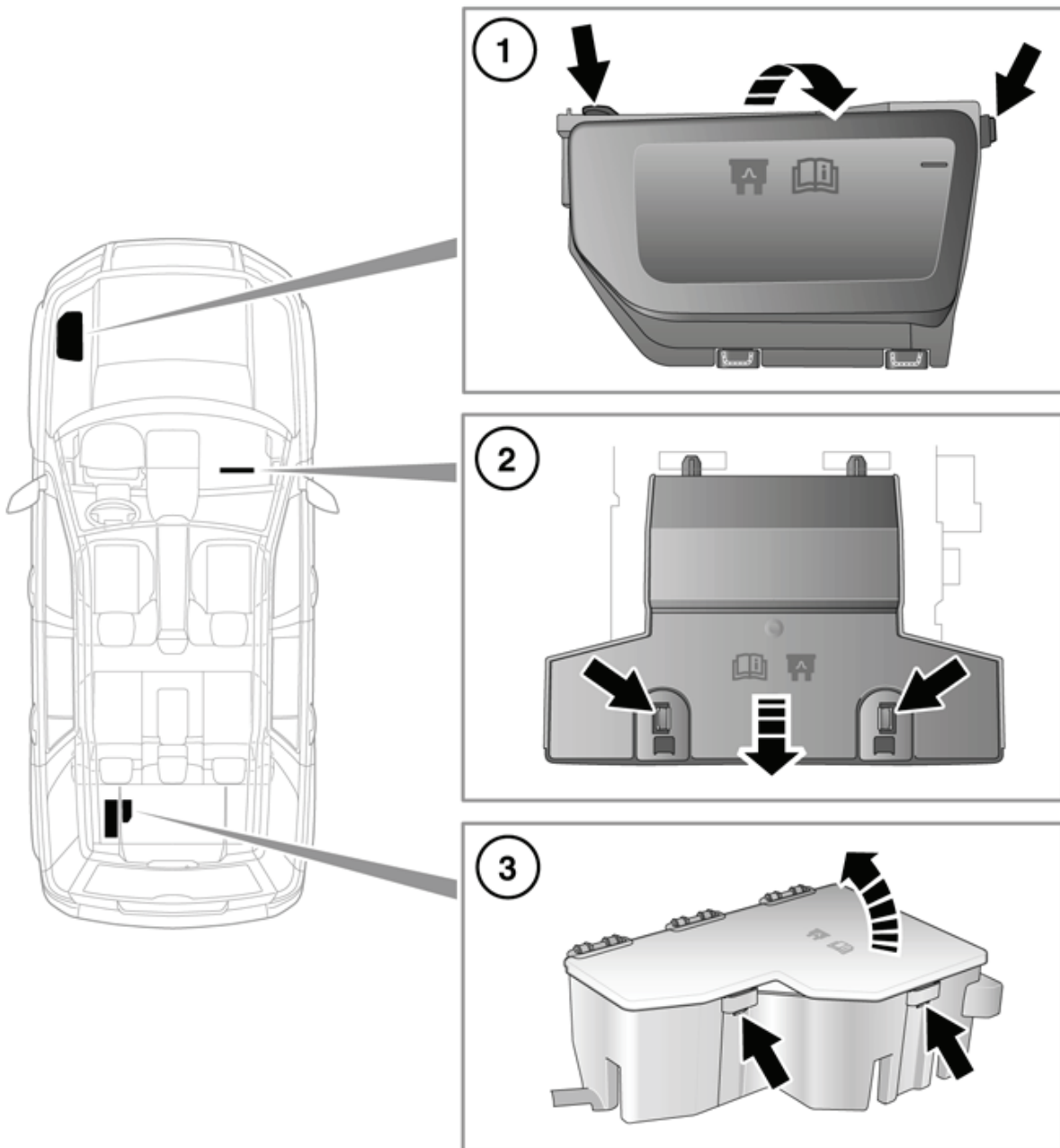
Land Rover approved traction devices may be used to improve traction on a hard road surface in heavy snow conditions. They should not be used in off-road conditions.

If it becomes necessary to fit traction devices, the following points must be observed:

- Snow chains can only be fitted to the front and rear wheels of vehicles fitted with 16 inch diameter wheels.
- Single sided Spike-spyder traction devices can only be fitted to the front wheels of vehicles fitted with 17 or 18 inch diameter 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.
- 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.

FUSE BOX LOCATIONS



SL1035


1. Engine compartment fuse box.
2. Passenger compartment fuse box.
3. Luggage compartment fuse box.


The passenger compartment fuse box is accessed from the passenger footwell.

A label on the rear of the access panel shows the circuits protected and the fuse locations.

The engine compartment fuse numbers and positions are shown on the inside of the fuse box cover.

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 only be replaced by qualified persons.

Always switch off the ignition, and the affected electrical circuit, before replacing a fuse.

ENGINE COMPARTMENT FUSE BOX

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
F1	5	tan	Glow plugs
F2	15	blue	Automatic transmission
F3	80	-	Cooling fans
F4	60	-	Glow plugs
F5	-	-	-
F6 (Diesel)	10	red	Engine management
F6 (Petrol)	15	blue	Engine management
F7	5	tan	Relays
F8 (Diesel)	10	red	Engine management
F8 (Petrol)	15	blue	Engine management
F9 (Diesel)	10	red	Engine management
F9 (Petrol)	15	blue	Engine management
F10 (Petrol)	10	red	Engine management
F11 (Diesel)	10	red	Engine management
F11 (Petrol)	10	red	Engine management
F12 (Diesel)	10	red	Engine management
F12 (Petrol)	20	yellow	Engine management
F13	15	blue	Air Conditioning
F14 (Diesel)	15	blue	Engine management
F15	40	green	Starter motor
F16 (Diesel)	100	-	Diesel PTC heater

Fuses

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
F17	60	-	Passenger compartment fuse box supply
F18	60	-	Passenger compartment fuse box supply
F19	60	-	Luggage compartment fuse box supply
F20	60	-	Luggage compartment fuse box supply
F21	60	-	Luggage compartment fuse box supply - Audio unit
F22	30	pink	Windscreen wipers
F23	-	-	-
F24	30	pink	Headlamp washers
F25	30	pink	ABS
F26	40	green	ABS
F27	-	-	-
F28	40	green	Heater blower
F29	-	-	-
F30	-	-	-
F31	15	blue	Horns
F32	20	yellow	Diesel auxiliary heater
F33	5	tan	Relays
F34	40	green	Heated windscreen (LH)
F35	40	green	Heated windscreen (RH)
F36	-	-	-
F37	10	red	Heated washer jets
F38	10	red	AFS (RH lamp motors)
F39	10	red	Climate control
F40	10	red	Auxiliary water pump
F41	20	yellow	Passenger compartment fuse box supply
F42	15	blue	Engine management
F43	5	tan	Headlamp levelling control - AFS

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
F44	10	red	AFS (LH lamp motors)
F45	15	blue	Cigar lighter

PASSENGER COMPARTMENT FUSE BOX

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
F1	5	tan	Rain sensor
F2	10	red	SRS
F3	5	tan	ABS
F4	5	tan	Instrument pack - Accelerator pedal - Light Switch Module - Interior mirror
F5	-	-	-
F6	15	blue	Audio unit
F7	7.5	brown	Steering wheel controls
F8	5	tan	Instrument pack
F9	15	blue	Headlamp main beam
F10	15	blue	Sunroof
F11	7.5	brown	Reverse lights - interior mirror dip
F12	-	-	-
F13	15	blue	Front fog lamps
F14	15	blue	Screen wash
F15	-	-	-
F16	-	-	-
F17	7.5	brown	Interior lighting
F18	-	-	-
F19	5	tan	Electric seat adjustment
F20	15	blue	Rear wiper
F21	5	tan	Alarm
F22	20	yellow	Fuel pump
F23	20	yellow	Steering column lock
F24	-	-	-

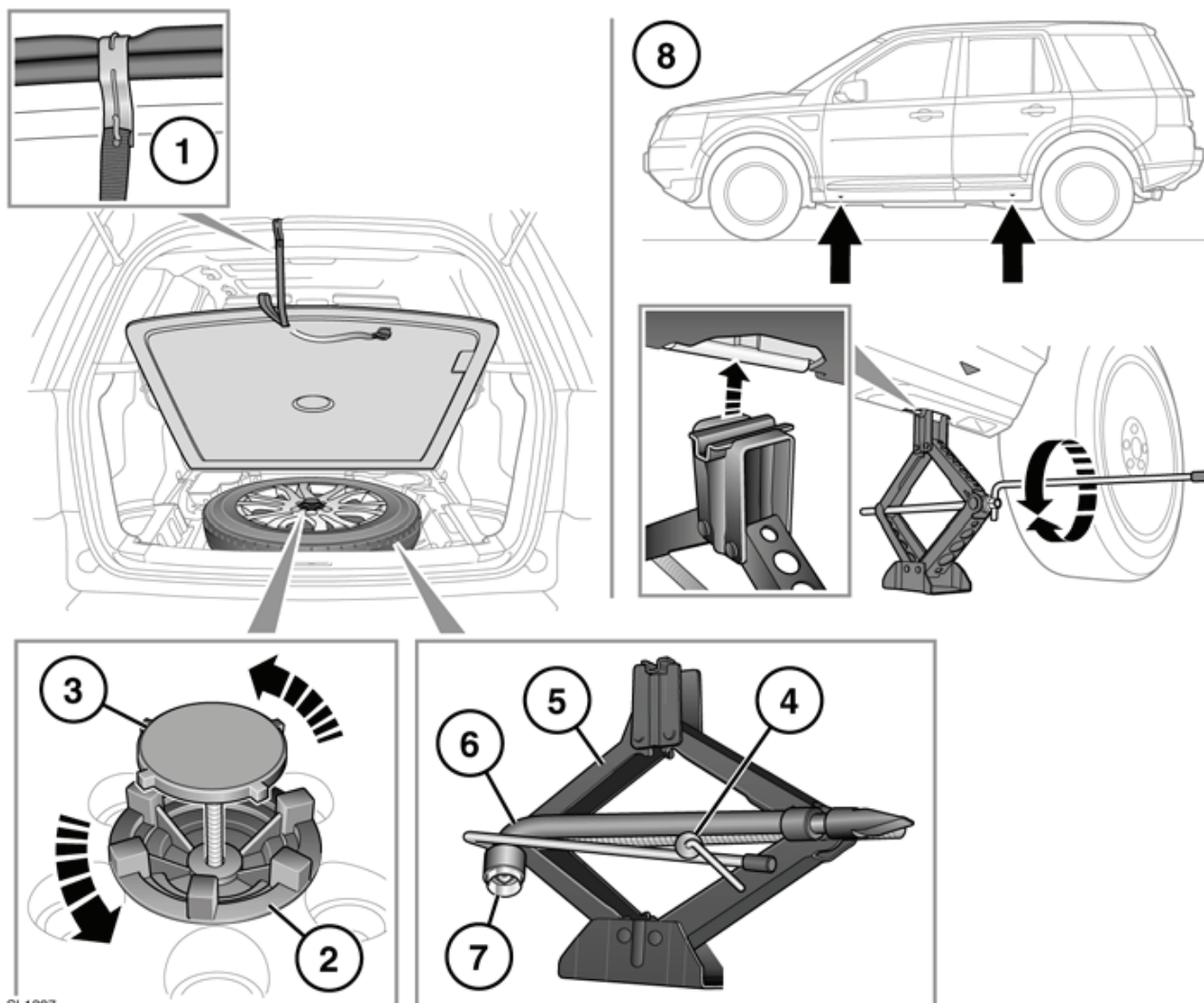
Fuse number	Rating (Amps)	Fuse colour	Circuits protected
F25	10	red	Tailgate - Fuel filler flap
F26	5	tan	Diagnostic socket - alarm
F27	5	tan	Start button - climate control
F28	5	tan	Brake lights
F29	15	blue	Voltage module

LUGGAGE COMPARTMENT FUSE BOX

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
FA1	25	clear	Driver door controls
FA2	25	clear	Passenger door controls
FA3	25	clear	Rear left door controls
FA4	25	clear	Rear right door controls
FA5	5	tan	Remote auxiliary heater control
FA6	15	blue	Rear accessory socket
FA7	30	pink	Heated rear screen
FA8	-	-	-
FA9	15	blue	Trailer power
FA10	30	pink	Driver electric seat
FA11	40	pink	Trailer power
FA12	-	-	-
FB1	10	red	Park distance control
FB2	10	red	Voltage module
FB3	15	blue	Driver's seat heater
FB4	15	blue	Front passenger's seat heater
FB5	15	blue	Caravan fridge
FB6	15	blue	Electronic centre differential
FB7	5	tan	Instrument pack
FB8	15	blue	Audio system
FB9	30	pink	Passenger electric seat

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
FB10	15	blue	Loadspace power socket
FB11	-	-	-
FB12	-	-	-
FD1	10	red	Audio system and touch screen (also check fuse F29)
FD2	-	-	-
FD3	10	red	DAB
FD4	5	tan	Bluetooth telephone
FD5	-	-	-
FD6	10	red	Audio unit
FD7	5	tan	Instrument pack
FD8	-	-	-
FD9	30	pink	Audio amplifier
FD10	-	-	-
FD11	-	-	-
FD12	-	-	-

CHANGING A ROAD WHEEL



SL1397



The spare wheel is 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.



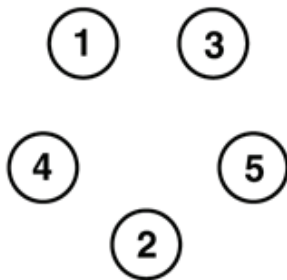
Always remove the spare wheel before jacking the vehicle.

Note: Before removing the spare wheel, take note of its stowage position. The wheel to be changed must be correctly stowed in its place.

WHEEL CHANGING

1. To access the spare wheel lift the floor panel and fit the retaining strap hook to the tailgate guttering.
2. Slacken the locking ring.
3. Undo and remove the retaining bolt. Then lift out the spare wheel.
4. To remove the jack and wheel brace undo the retaining bolt.
5. Vehicle jack.
6. Wheel brace.
7. Locking wheel nut adapter.

8. Raise the vehicle using the jack with a slow steady operation. Avoid rapid, jerky actions as they may cause the vehicle/jack to become unstable.
9. Remove the wheel nuts and place them together where they cannot roll away.
10. Remove the wheel and place to one side. Do not lay the wheel on its face, as this may damage the finish.
11. Fit the spare wheel to the hub.
12. Re-fit the wheel nuts, and lightly tighten them. Ensure that the wheel is making contact with the hub evenly.
13. Ensure that the space under the vehicle is clear of obstructions, and lower the vehicle slowly and smoothly.
14. 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 133 Nm (98 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. Then using hand pressure only, press the centre cap into the newly fitted spare.

Check and adjust the tyre pressure as soon as possible.

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.





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 the two opposite wheels.

Wheel changing


 Take care when lifting the spare wheel, and removing the punctured wheel. The wheels are heavy, and can cause injuries if not handled correctly.

 Remove the spare wheel prior to jacking the vehicle, to avoid destabilising the vehicle when raised.

 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.

 The jack is designed for wheel changing only. Never work beneath the vehicle with the jack as the only means of support. Always use correctly rated vehicle support stands, before putting any part of your body beneath the vehicle.


TEMPORARY SPARE WHEEL

 Adhere to the instructions on the temporary spare warning label, affixed to the wheel.

 Drive with caution while the temporary spare wheel is fitted. Ensure that an original size wheel and tyre are fitted as soon as possible.

 Do not fit more than one temporary spare wheel.

 Do not exceed 80 km/h (50 mph) while the temporary spare wheel is fitted.

 The tyre pressure in the temporary spare wheel should be 420 kPa (4.2 Bar/60 psi).

 DSC must be switched on while the temporary spare wheel is in use.

 Traction devices such as snow chains cannot be used with a temporary spare wheel.

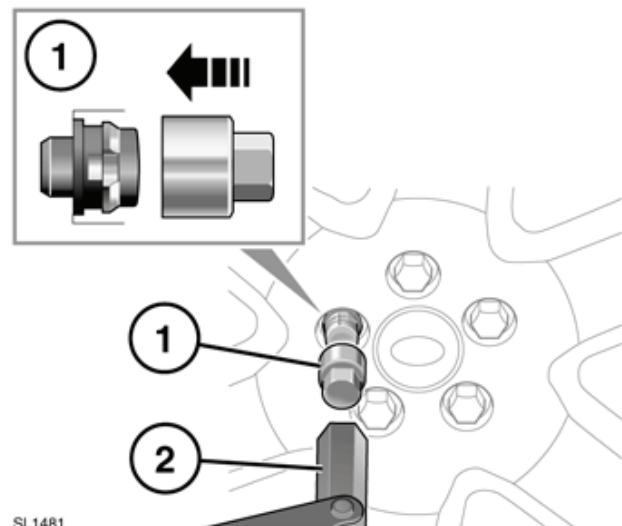
LOCKING WHEEL NUTS

Locking wheel nuts can only be removed using 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 adapter into the locking wheel nut, ensuring that it is fully engaged.
2. Using the wheel brace, unscrew the wheel nut and adapter.

Note: After use store the wheel nut adapter correctly in the tool kit.

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.

LABEL LOCATIONS



Warning labels attached to your vehicle bearing this symbol mean: Do not touch or adjust components until you have read the relevant



instructions in the handbook.

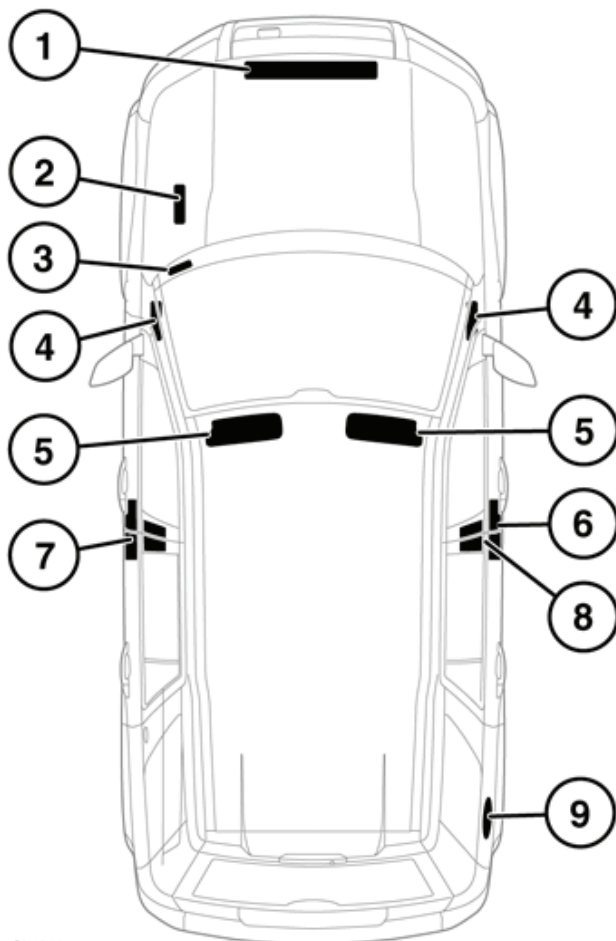


Labels showing this symbol indicate that the ignition system utilises very high voltages. Do not touch any ignition components while the starter



switch is turned on.

Additional information labels may also be found at the following locations:



SL1366

1. Bonnet locking platform - Air conditioning label
2. Top of battery - Battery warning symbols

3. The VIN is stamped on a plate which is visible through the lowest part of the left side of the windscreen.

Note: If you need to communicate with a Dealer/Authorised Repairer, you may be asked to quote the VIN number.

4. End of fascia (passenger side) - Passenger airbag label.
5. Sun visor - Airbag label, vehicle handling label.
6. Base of right-hand B pillar - Tyre pressure label, airbag warning label.
7. Left-hand B pillar - Airbag warning label, Vehicle Identification Number plate.
8. Right-hand B pillar - Vehicle Identification Number plate (China).
9. Inside fuel filler flap - Fuel label.

It is important that you are familiar with these subjects to ensure that your vehicle and its features are used safely. Using the index at the back of this handbook, refer to the relevant topic for more information.

VEHICLE IDENTIFICATION NUMBER (VIN)

The VIN is a unique number which identifies your vehicle. Unlike the vehicle registration number it cannot be transferred, and remains with your vehicle for the life of the car.

VEHICLE BUILD DATE PLATE (Australia only)

This is the calendar month and year in which the body and power train assemblies were conjoined and the vehicle was driven from the production line.

The vehicle built date is shown on a the tyre pressure label attached to the right-hand 'B' pillar.

DECLARATIONS OF CONFORMITY

SIEMENS VDO
A U T O M O T I V E

SiemensVDO Automotive AG, P.O. Box 10 09 43, D-93009 Regensburg

Name: Dagnmar Kolar
Department: SV C TS RBG EMC Laboratory
Tel.: +49(0)9411790-6699
Fax: +49(0)9411790-136699
E-Mail: dagnmar.kolar@siemens.com
Internet: www.siemensvdo.de
Our Ref.: Doc_S122780002.doc
Date: 09/11/2005

Declaration of Conformity in accordance with Directive 1999/5/EC (R&TTE Directive)

Manufacturer: Siemens VDO Automotive AG
Body & Chassis Electronics
Address: Siemensstrasse 12
D-93055 Regensburg
Germany
Product type designation: S122780002
Intended use: Radio frequency transmitter used Tire Pressure Monitoring system
The product mentioned above complies with the essential requirements and other relevant provisions of Directive 1999/5/EC, when used for its intended purpose:
Health and safety pursuant to §3.1.a:

Applied standard(s):
EN 60950: 2000

Electromagnetic compatibility pursuant to § 3.1.b: Applied standard(s):
EN 301 489 -1,-3: V1.4.1 (2002-08)

Efficient use of spectrum pursuant to § 3.2: Applied standard(s):
EN 300 220 -1: V1.3.1 (2000-09)

The following marking applies to the above mentioned product:



Siemens VDO Automotive AG
Regensburg, 2005-11-09

Jacob
Jean-Francois Tarabilla
Executive Vice President
Body and Chassis Electronics Operations

Martin Fischer
Dr. Martin Fischer
Vice President
Wireless Products and Modules

SiemensVDO Automotive AG Body & Chassis Electronics
Postal Address: SiemensVDO Automotive AG
D-93055 Regensburg
P.O. Box 10 09 43
D-93009 Regensburg
Helmut Matzsch
Klaus Müller

Office Address: Siemensstrasse 12
D-93055 Regensburg
Tel. +49(0)941/790-0

SiemensVDO Automotive AG „Chairman of the Supervisory Board: Edward G. Kubausk, Managing Board: Franz Wessing, Chairman „Members: Klaus Egger, Ginter Hauptmann, Johann Lohrer „Registered Office: München „Commercial Registry: München, HRB 15207

SIEMENS VDO
A U T O M O T I V E

SiemensVDO Automotive AG, P.O. Box 10 09 43, D-93009 Regensburg

Name: Dagnmar Kolar
Department: SV C TS RBG EMC Laboratory
Tel.: +49(0)9411790-6699
Fax: +49(0)9411790-136699
E-Mail: dagnmar.kolar@siemens.com
Internet: www.siemensvdo.de
Our Ref.: Doc_SWK49096.doc
Date: 03/08/2005

Declaration of Conformity in accordance with Directive 1999/5/EC (R&TTE Directive)

Manufacturer: Siemens VDO Automotive AG
Body & Chassis Electronics
Address: Dep. SV C BC P2 RF TG
Siemensstrasse 12
D-93049 Regensburg
Germany
Product type designation: SWK4 9096
Intended use: Radio frequency receiver used in vehicle locking/unlocking systems
The product mentioned above complies with the essential requirements and other relevant provisions of Directive 1999/5/EC, when used for its intended purpose:
Health and safety pursuant to §3.1.a:

Applied standard(s):
EN 60950:2000

Electromagnetic compatibility pursuant to § 3.1.b: Applied standard(s):
EN 301 489 -1,-3: V1.4.1 (2002-08)

Efficient use of spectrum pursuant to § 3.2: Applied standard(s):
EN 300 220-1: V1.3.1 (2000-09)

The following marking applies to the above mentioned product:



Siemens VDO Automotive AG
Regensburg, 2005-08-03

Jacob
Jean-Francois Tarabilla
Executive Vice President
Body and Chassis Electronics Operations

Martin Fischer
Dr. Martin Fischer
Vice President
Wireless Products and Modules

SiemensVDO Automotive AG Body & Chassis Electronics
Postal Address: SiemensVDO Automotive AG
D-93055 Regensburg
P.O. Box 10 09 43
D-93009 Regensburg
Helmut Matzsch
Klaus Müller

Office Address: Siemensstrasse 12
D-93055 Regensburg
Tel. +49(0)941/790-0

SiemensVDO Automotive AG „Chairman of the Supervisory Board: Edward G. Kubausk, Managing Board: Franz Wessing, Chairman „Members: Klaus Egger, Ginter Hauptmann, Johann Lohrer „Registered Office: München „Commercial Registry: München, HRB 15207

Lear Corporation
Electronics Systems Division
21557 Telegraph Road
Southfield, MI 48033-4248
USA
Phone (248) 447-1500



Date: February 6, 2009

INFORMATION TO BE INCLUDED IN THE END USER'S MANUAL

The following information must be included in the end product user's manual to ensure continued FCC and Industry Canada regulatory compliance. The ID numbers must be included in the manual if the device label is not readily accessible to the end user. The compliance paragraphs below must be included in the user's manual.

The following user's manual statements are provided by Lear Corporation to Jaguar Land Rover electronically after certification.

Key fobs

Land Rover, Range Rover,
FCC ID: KOBJTF10A (Range Rover, Land Rover)
FCC ID: KOBJTF10B (Jaguar)
IC: 3521A-JTF10A (Range Rover, Land Rover)
IC: 3521A-JTF10B (Jaguar)
Model #: AH42-15K601A (Range Rover)
Model #: AH22-15K601A (Land Rover)
Model #: AW53-15K601A (Jaguar)

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.



Lear Corporation
Electronics Systems Division
21557 Telegraph Road
Southfield, MI 48033-4248
USA
Phone (248) 447-1500

RKE Receiver

Land Rover, Range Rover, Jaguar
FCC ID: KOBJLR09A
IC: 3521-JLR09A
Model #: AH42-15K602-A

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

Passive Entry / Passive Start Module

Land Rover, Range Rover, Jaguar
FCC ID: KOBJBG10A
IC: 3521-JBG10A
Model #: AH22-19H440 (PEPS)
Model #: AH42-19H440 (Passive Start ONLY)
FCC ID: KOBJBG10B
IC: 3521-JBG10B
Model #: AH22-19H440 (PEPS)
Model #: AH42-19H440 (Passive Start ONLY)

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

EC Declaration of Conformity

EC Directive: 1999/5/EC
 Manufacturer: Lear Corporation
 Type Designation / FCC ID: KOBJBG10A
 Model Numbers: 5E0770237, 5E0770337, 19H440, AH22-19H440-AC, AH42-19H440-AD, AH22-19H440, AH42-19H440
 Description / Intended Use: Remote Function Actuator (RFA), passive keyless entry and start system low frequency initiator
 Trademarks: Land Rover / Range Rover / Jaguar
 Applied Standards: European Commission Directive 2006/28/EC
 ETSI EN 60950
 ETSI EN 300 330
 CEPT/ERC/REC 70-03
 AS/NZS 4268
 FCC Regulations 47 CFR Part 15
 Responsible Person: Kevin Cotton
 Lear Corporation
 21557 Telegraph Road
 Southfield, Michigan 48033
 United States of America

Hereby, **Lear Corporation** declares that the product referenced above is in compliance with the essential requirements of Directive 1999/5/EC, on the approximation of the laws of the member states relating to Directive 1999/5/EC.

Signed: 
 Kevin Cotton, Lear Corporation

Date: 27 March 2009

EC Declaration of Conformity

EC Directive: 1999/5/EC
 Manufacturer: Lear Corporation
 Type Designation / FCC ID: KOBJBG10B
 Model Numbers: 5E0770257, 5E0770357, 19H440, AH22-19H440, AH42-19H440, AH22-19H440-AD, AH42-19H440-AE
 Description / Intended Use: Remote Function Actuator (RFA), passive keyless entry and start system low frequency initiator
 Trademarks: Land Rover / Range Rover / Jaguar
 Applied Standards: European Commission Directive 2006/28/EC
 ETSI EN 60950
 ETSI EN 300 330
 CEPT/ERC/REC 70-03
 AS/NZS 4268
 FCC Regulations 47 CFR Part 15
 Responsible Person: Kevin Cotton
 Lear Corporation
 21557 Telegraph Road
 Southfield, Michigan 48033
 United States of America

Hereby, **Lear Corporation** declares that the product referenced above is in compliance with the essential requirements of Directive 1999/5/EC, on the approximation of the laws of the member states relating to Directive 1999/5/EC.

Signed: 
 Kevin Cotton, Lear Corporation

Date: 27 March 2009

EC Declaration of Conformity

EC Directive: 1999/5/EC
 Manufacturer: Lear Corporation
 Type Designation: 5E0760127
 Model Numbers: 5E0760127, 15K602, AH42-15K602-B, AH42-15K602-BC
 Description / Intended Use: RF Receiver (RFR), used in passive entry and passive start, remote keyless entry, and tire pressure monitoring systems
 Trademarks: Land Rover / Range Rover / Jaguar
 Applied Standards: European Commission Directive 2006/28/EC
 ETSI EN 60950
 ETSI EN 300 220
 CEPT/ERC/REC 70-03
 AS/NZS 4268
 Responsible Person: Kevin Cotton
 Lear Corporation
 21557 Telegraph Road
 Southfield, Michigan 48033
 United States of America

Hereby, **Lear Corporation** declares that the product referenced above is in compliance with the essential requirements of Directive 1999/5/EC, on the approximation of the laws of the member states relating to Directive 1999/5/EC.

Signed: 
 Kevin Cotton, Lear Corporation

Date: 27 March 2009

EC Declaration of Conformity

EC Directive: 1999/5/EC
 Manufacturer: Lear Corporation
 Type Designation: 15K601
 Model Numbers: 5E0B50127, 5E0B50127, 15K601-BB, AH42-15K601B, AH22-15K601B, AH42-15K601-BC, AH22-15K601-BC
 Description / Intended Use: Passive Key (PK) / Customer Identification Device (CID), passive keyless entry system keyfob
 Trademarks: Land Rover / Range Rover
 Applied Standards: CEPT/ERC/REC 70-03
 ETSI EN 60950
 ETSI EN 300 220
 ETSI EN 301 489
 IEC EN 60950
 AS/NZS 4268
 Responsible Person: Kevin Cotton
 Lear Corporation
 21557 Telegraph Road
 Southfield, Michigan 48033
 United States of America

Hereby, **Lear Corporation** declares that the product referenced above is in compliance with the essential requirements of Directive 1999/5/EC, on the approximation of the laws of the member states relating to Directive 1999/5/EC.

Signed: 
 Kevin Cotton, Lear Corporation

Date: 26 March 2009

Quietek

快特電波股份有限公司
低功率射頻電機型式認證證明

一、申請者：Lear Corporation
 二、製造廠商：Lear Corporation
 三、器材名稱：Range Rover / SE0B60227
 四、廠牌/型號：Range Rover / SE0B60227
 五、發射功率（電場強度）：315MHz；84.195dBuV/m(Peak)
 六、工作頻率：315MHz

七、發證日期：98年06月02日
 八、審驗合格標識式樣：

說明：
 1. 請依上列標識式樣自製標識，標貼或印鑄於器材本體明顯處，始得販賣或公開陳列。
 2. 經型式認證合格之低功率射頻電機，其型號、設計、射頻性能如有變更，應重新申請型式認證。
 3. 違反低功率電波輻射性電機管理辦法之規定，擅自使用或變更無線電頻率、電功率者，除依電信法規定處罰外，驗證機關(構)並得廢止其型式認證證明或型式認證標識。
 4. 送審廠商應保留送審樣品供日後核對。
 5. 本型式認證證明及其合格標識使用權專屬取得本證明者。本證明持有人於同廠牌同型號之器材，使用其合格標識，家通訊傳播委員會備查後，得授權他人於同廠牌同型號之器材，使用其合格標識。

備註：
 1、本器材符合低功率射頻電機技術規範 LP0002.3.4.2節之規定。
 2、本驗證機關係經國家通訊傳播委員會委託，核發本型式認證證明。
 3、本器材所使用固定式天線廠牌/型號如下：
 Lear Corporation / N/A

Quietek

快特電波股份有限公司
低功率射頻電機型式認證證明

一、申請者：Lear Corporation
 二、製造廠商：Lear Corporation
 三、器材名稱：RFA (Passive Start)
 四、廠牌/型號：LEAR / SE0770337
 五、發射功率（電場強度）：125KHz；61.5dBuV/m(Average)
 六、工作頻率：125KHz

七、發證日期：98年06月02日
 八、審驗合格標識式樣：

說明：
 1. 請依上列標識式樣自製標識，標貼或印鑄於器材本體明顯處，始得販賣或公開陳列。
 2. 經型式認證合格之低功率射頻電機，其型號、設計、射頻性能如有變更，應重新申請型式認證。
 3. 違反低功率電波輻射性電機管理辦法之規定，擅自使用或變更無線電頻率、電功率者，除依電信法規定處罰外，驗證機關(構)並得廢止其型式認證證明或型式認證標識。
 4. 送審廠商應保留送審樣品供日後核對。
 5. 本型式認證證明及其合格標識使用權專屬取得本證明者。本證明持有人於同廠牌同型號之器材，使用其合格標識，家通訊傳播委員會備查後，得授權他人於同廠牌同型號之器材，使用其合格標識。

備註：
 1、本器材符合低功率射頻電機技術規範 LP0002.2.8節之規定。
 2、本驗證機關係經國家通訊傳播委員會委託，核發本型式認證證明。
 3、本器材所使用固定式天線廠牌/型號如下：
 Lear Corporation / N/A

QuieTek

快特電波股份有限公司 低功率射頻電機型式認證證明

一、申請者：Lear Corporation
 二、製造廠商：Lear Corporation
 三、器材名稱：RFA (Passive Start & Start Module)
 四、廠牌/型號：LEAR / SE0770237
 五、發射功率 (電場強度)：125KHz; 63.3dBuV/m(Average)
 六、工作頻率：125KHz

七、發證日期：98年06月02日
 八、審驗合格標識式樣：

說明：

- 請依下列標識式樣自製標識，標貼或印鑄於器材本體明顯處，始得販賣或公開陳列。
- 經型式認證合格之低功率射頻電機，其型號、設計、射頻性能如有變更，應重新申請型式認證。
- 違反低功率電波輻射性電機管理辦法之規定，擅自使用或變更無線電頻率、電功率者，除依電信法規定處罰外，驗證機關(構)並得廢止其型式認證證明或型式認證標識。
- 送審廠商應保留送審樣品供日後核對。
- 本型式認證證明及其合格標識使用權專屬取得本證明者，本證明持有人除附同意書報請國家通訊傳播委員會備查後，得授權他人於同廠牌同型號之器材，使用其合格標識。

備註：

- 本器材符合低功率射頻電機技術規範 LP0002 2.8 節之規定。
- 本驗證機構係經國家通訊傳播委員會委託，核發本型式認證證明。
- 本器材所使用固定式天線廠牌/型號如下：
Lear Corporation / N/A

QuieTek

快特電波股份有限公司 低功率射頻電機型式認證證明

一、申請者：Lear Corporation
 二、製造廠商：Lear Corporation
 三、器材名稱：Range Rover FOB
 四、廠牌/型號：Range Rover / SE0B50227
 五、發射功率 (電場強度)：315MHz; 84.195dBu V/m(Peak)
 六、工作頻率：315MHz

七、發證日期：98年06月02日
 八、審驗合格標識式樣：

說明：

- 請依下列標識式樣自製標識，標貼或印鑄於器材本體明顯處，始得販賣或公開陳列。
- 經型式認證合格之低功率射頻電機，其型號、設計、射頻性能如有變更，應重新申請型式認證。
- 違反低功率電波輻射性電機管理辦法之規定，擅自使用或變更無線電頻率、電功率者，除依電信法規定處罰外，驗證機關(構)並得廢止其型式認證證明或型式認證標識。
- 送審廠商應保留送審樣品供日後核對。
- 本型式認證證明及其合格標識使用權專屬取得本證明者，本證明持有人除附同意書報請國家通訊傳播委員會備查後，得授權他人於同廠牌同型號之器材，使用其合格標識。

備註：

- 本器材符合低功率射頻電機技術規範 LP0002 3.4.2 節之規定。
- 本驗證機構係經國家通訊傳播委員會委託，核發本型式認證證明。
- 本器材所使用固定式天線廠牌/型號如下：
Lear Corporation / N/A



Continental Automotive GmbH - Postfach 100 993 - 92009 Regensburg

Kolar Dagmar
 AOL RBG 42
 Phone +49 (941) 790-6699
 Fax +49 (941) 790-136699
 dagmar.kolar@continental-corporation.com

Date: July 29, 2008
 Your message dated: _____
 Our Reference: _____
 Your reference: _____

Declaration of Conformity in accordance with Directive 1999/5/EC (R&TTE Directive)

Manufacturer: Continental Automotive GmbH
 Address: Siemensstrasse 12
 D-93055 Regensburg
 Germany
 Product type designation: S180 052 020 A
 Intended use: Tire Pressure System

The product mentioned above complies with the essential requirements and other relevant provisions of Directive 1999/5/EC, when used for its intended purpose:

- Health and safety pursuant to §3.1.a: Applied standard(s): EN 60950-1; 2006
- Electromagnetic compatibility pursuant to § 3.1.b: Applied standard(s): EN 301 489 -1; V1.6.1 (2006-09)
 EN 301 489 -3; V1.4.1 (2002-08)
- Efficient use of spectrum pursuant to § 3.2: Applied standard(s): EN 300 220 -1; V2.1.1 (2006-04)
 EN 300 220 -2; V2.1.1 (2006-04)

The following marking applies to the above mentioned product:



Continental Automotive GmbH
 Regensburg, 2008-07-29

Continental Automotive GmbH
 Postfach 100 993
 92009 Regensburg
 Phone +49 941 790-0
 Fax +49 941 790-6999
 www.continental-corporation.com

Continental Automotive GmbH
 General Office:
 General Counsel,
 Head of Compliance,
 Head of Data Protection
 Head of HR

Continental Automotive GmbH
 Registered Office:
 Register Court
 Amtsgericht Hanover
 HRB 16624

Continental Automotive GmbH
 Director of Product Group 3
 Body & Security

Quietek

快特電波股份有限公司

低功率射頻電機型式認證證明

一、申請者: Lear Corporation
 二、製造廠商: Lear Corporation
 三、器材名稱: Jaguar fob
 四、廠牌/型號: JAGUAR / SE0B4P217
 五、發射功率 (電場強度): 315MHz; 83.225dBuV/m(Peak)
 六、工作頻率: 315MHz

七、審驗日期: 98年07月01日
 八、審驗合格標識式樣:

說明:

- 請依上列標識式樣自製標識，標貼或印鑄於器材本體明顯處，始得販賣或公開陳列。
- 經型式認證合格之低功率射頻電機，其型號、設計、射頻性能如有變更，應重新申請型式認證。
- 違反低功率電波輻射性電機管理辦法之規定，擅自使用或變更無線電頻率、電功率者，除依電信法規定處罰外，驗證機關(構)並得廢止其型式認證證明及型式認證標識。
- 送審廠商應保留送審樣品供日後核對。
- 本型式認證證明及其合格標識使用權專屬取得本證明者，依電信管制射頻器材審驗辦法第15條規定，持有人得經由國際網路申請同意他人於同廠牌同型號之電信管制射頻器材使用型式認證標識，並於次日起30天內，應檢具「電信管制射頻器材審驗合格標識或符合性聲明標識同意使用備查表」送本會備查。

備註:

- 本器材符合低功率射頻電機技術規範(LP0002.3.4.2節)之規定。
- 驗證機構係經國家通訊傳播委員會委託，核發本型式認證證明。
- 本器材使用固定式天線，廠牌/型號為:Lear Corporation / N/A。

전자문서확인번호 WESH-316L-V7SG-VXVD



방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

인증의 종류
Certification Type
상호 또는 성명
Trade Name or Applicant
기기의 명칭
Equipment Name

형식등록(Type Registration)
LEAR CORPORATION
특정소출력무선기기(데이터전송용 무선기기)

5E0B40

기본모델명
Basic Model Number
파생모델명
Series Model Number

인증번호
Certification No
제조자/제조국가
Manufacturer/Country of Origin

LER-5E0B40

LEAR Automotive Electronics and Electrical/중국

LARN2-Y03L433.92T.0.125R0.003F1D1

형식기호
Type Identification

2009년(Year) 07월(Month) 15일(Date)

인증연월일
Date of Certification

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under the Framework Act on Telecommunications and Radio Waves Act.

2009년(Year) 07월(Month) 15일(Date)



Director General of Radio Research Laboratory
Korea Communications Commission Republic of Korea

※ 인증번호는 www.kcc.go.kr에서 확인하실 수 있습니다. ※ 복사본은 원본 복사본과 동일하지 않을 수 있습니다.



전자문서확인번호 NC49-Y219-MTAV-IRRD



방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

인증의 종류
Certification Type
상호 또는 성명
Trade Name or Applicant
기기의 명칭
Equipment Name

5E0B5P127

형식등록(Type Registration)
LEAR CORPORATION
데이터전송용 무선기기

5E0B50.5E0B60

기본모델명
Basic Model Number
파생모델명
Series Model Number

인증번호
Certification No
제조자/제조국가
Manufacturer/Country of Origin

LER-5E0B5P127

LEAR Automotive Electronics and Electrical/중국

LARN2-IO3L433.92T.0.125R0.003F1D1

형식기호
Type Identification

2009년(Year) 05월(Month) 22일(Date)

인증연월일
Date of Certification

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under the Framework Act on Telecommunications and Radio Waves Act.

2009년(Year) 05월(Month) 28일(Date)



Director General of Radio Research Laboratory
Korea Communications Commission Republic of Korea

※ 인증번호는 www.kcc.go.kr에서 확인하실 수 있습니다. ※ 복사본은 원본 복사본과 동일하지 않을 수 있습니다.



전자문서확인번호 7N7R-CFNU-RHW1-SUIX



방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

형식등록(Type Registration)

인증의 종류
Certification Type
상호 또는 성명
Trade Name or Applicant
기기의 명칭
Equipment Name

LEAR CORPORATION

비야 전계장도 무선기기

5E0770237

기본모델명
Basic Model Number
파생모델명
Series Model Number

LER-5E0770237

인증번호
Certification No

제조자/제조국가
Manufacturer/Country of Origin

LPD-I03L0.125TAID

형식기호
Type Identification

2009년(Year) 09월(Month) 04일(Date)

인증연월일
Date of Certification

기타
Others

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under the Framework Act on Telecommunications and Radio Waves Act.

2009년(Year) 09월(Month) 04일(Date)

진과연구소장

Director General of Radio Research Laboratory

Korea Communications Commission Republic of Korea

본 인증서는 전자문서확인번호 7N7R-CFNU-RHW1-SUIX로 확인 가능합니다. (본 인증서의 유효기간은 2014년 09월 04일까지입니다.)



전자문서확인번호 JVC5-ASVQ-IFC4C-1BET



방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

형식등록(Type Registration)

인증의 종류
Certification Type
상호 또는 성명
Trade Name or Applicant
기기의 명칭
Equipment Name

LEAR CORPORATION

비야 전계장도 무선기기

5E0770237

기본모델명
Basic Model Number
파생모델명
Series Model Number

5E0770337

LER-5E0770237

인증번호
Certification No

제조자/제조국가
Manufacturer/Country of Origin

LPD-I03L0.125TAID

형식기호
Type Identification

2009년(Year) 09월(Month) 04일(Date)

인증연월일
Date of Certification

기타
Others

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under the Framework Act on Telecommunications and Radio Waves Act.

2009년(Year) 09월(Month) 18일(Date)

진과연구소장

Director General of Radio Research Laboratory

Korea Communications Commission Republic of Korea

본 인증서는 전자문서확인번호 JVC5-ASVQ-IFC4C-1BET로 확인 가능합니다. (본 인증서의 유효기간은 2014년 09월 04일까지입니다.)





Independent Communications Authority of South Africa
 Private Bag 1144 Kufuvane Street, Sandton
 Private Bag 110002, Sandton, 2146

Radio Equipment Type Approval Certificate

Radio Equipment Type Approval Number

TA-20090302

The Authority, in the exercise of the powers conferred upon it by section 35 (1) of the Electronic Communications Act, 2005 (Act 36 of 2005), the applicable radio regulations which currently remain in force in terms of section 95 (2) of the Electronic Communications Act and subject to the terms and conditions set out in this document (hereinafter, "hereby issues a radio equipment type approval certificate to the company whose name and particulars are listed below.

Company Particulars

Name : Jaguar Land Rover SA
 Street Address : Simon Vermooten Road, Silverton
 Telephone Number : 012 842 3274
 Facsimile Number : 012 845 1005
 Registration Number : 200102726907

Description of Apparatus

Category : Remote Function Actuator (RFA)
 Model : KOB/JBG10B
 Frequency Range : 119 – 135 kHz
 ITU Emission Code : 12KG1D
 Modulation : BPSK
 Power Output : +37.7 Dbm/1m @ 3m
 Channel Spacing : -
 Features : -

Only the original or a certified copy of the radio equipment type approval certificate shall be considered valid.

P. Moshile
 Phelemon Moshile
 Senior Manager: Engineering & Technology

09 JUN 2009
 P. Moshile (Chairperson), NA Buthe, TLV Makhahle, R. Nkomo, BB Ntombi, FK Sibande, Dr MM Soekwa
 Prof JCW van Rooyen SC, MM Zokwe (Councillors), BK Motlana (CEO)



Independent Communications Authority of South Africa
 Private Bag 1144 Kufuvane Street, Sandton
 Private Bag 110002, Sandton, 2146

Radio Equipment Type Approval Certificate

Radio Equipment Type Approval Number

TA-20090303

The Authority, in the exercise of the powers conferred upon it by section 35 (1) of the Electronic Communications Act, 2005 (Act 36 of 2005), the applicable radio regulations which currently remain in force in terms of section 95 (2) of the Electronic Communications Act and subject to the terms and conditions set out in this document (hereinafter, "hereby issues a radio equipment type approval certificate to the company whose name and particulars are listed below.

Company Particulars

Name : Jaguar Land Rover SA
 Street Address : Simon Vermooten Road, Silverton
 Telephone Number : 012 842 3274
 Facsimile Number : 012 845 1005
 Registration Number : 200102726907

Description of Apparatus

Category : Remote Function Actuator (RFA)
 Model : KOB/JBG10A
 Frequency Range : 119 – 135 kHz
 ITU Emission Code : 12KG1D
 Modulation : BPSK
 Power Output : +40.7 Dbm/1m @ 3m
 Channel Spacing : -
 Features : -

Only the original or a certified copy of the radio equipment type approval certificate shall be considered valid.

P. Moshile
 Phelemon Moshile
 Senior Manager: Engineering & Technology

09 JUN 2009
 P. Moshile (Chairperson), NA Buthe, TLV Makhahle, R. Nkomo, BB Ntombi, FK Sibande, Dr MM Soekwa
 Prof JCW van Rooyen SC, MM Zokwe (Councillors), BK Motlana (CEO)



Independent Communications Authority of South Africa
 Pinnafl Form, 164 Katherine Street, Sandton
 Private Bag X10002, Sandton, 2146

Radio Equipment Type Approval Certificate

Radio Equipment Type Approval Number

TA-2009/304

The Authority, in the exercise of the powers conferred upon it by section 35 (1) of the Electronic Communications Act 36 of 2005, the applicable radio regulations which currently remain in force in terms of section 95 (2) of the Electronic Communications Act and subject to the terms and conditions set out in this document (see coverleaf), hereby issues a radio equipment type approval certificate to the company whose name and particulars are listed below.

Company Particulars

Name : Jaguar Land Rover SA
 Street Address : Simon Vermooten Road, Silverton
 Telephone Number : 012 842 3274
 Facsimile Number : 012 845 1005
 Registration Number : 2001027269107

Description of Apparatus

Category : Low Frequency Initiator FET Receiver
 Model : 550760127
 Frequency Range : 433.05 – 434.79 MHz
 ITU Emission Code : 739KK1D
 Modulation : ASK, FSK
 Power Output : -
 Channel Spacing : -
 Features : -

Only the original or a certified copy of the radio equipment type approval certificate shall be considered valid.

Philemon Mofete
Philemon Mofete
 Senior Manager: Engineering & Technology

09 JUN 2009

P. Mofete (Chairperson), NA. Bityi, TLV Makubhe, R. Nunu, BB Ntshela, FA Sibanda, Dr MM Sookwa, Pvd JF20 van Rievern SC, MM Zikawa (Council Chair), BK Motlana (CEO)



Independent Communications Authority of South Africa
 Pinnafl Form, 164 Katherine Street, Sandton
 Private Bag X10002, Sandton, 2146

Radio Equipment Type Approval Certificate

Radio Equipment Type Approval Number

TA-2009/305

The Authority, in the exercise of the powers conferred upon it by section 35 (1) of the Electronic Communications Act 36 of 2005, the applicable radio regulations which currently remain in force in terms of section 95 (2) of the Electronic Communications Act and subject to the terms and conditions set out in this document (see coverleaf), hereby issues a radio equipment type approval certificate to the company whose name and particulars are listed below.

Company Particulars

Name : Jaguar Land Rover SA
 Street Address : Simon Vermooten Road, Silverton
 Telephone Number : 012 842 3274
 Facsimile Number : 012 845 1005
 Registration Number : 2001027269107

Description of Apparatus

Category : Key Fob Transmitter
 Model : 15K601
 Frequency Range : 433.05 MHz
 ITU Emission Code : 739KK1D
 Modulation : ASK, FSK
 Power Output : -14.8 dBm
 Channel Spacing : -
 Features : -

Only the original or a certified copy of the radio equipment type approval certificate shall be considered valid.

Philemon Mofete
Philemon Mofete
 Senior Manager: Engineering & Technology

09 JUN 2009

P. Mofete (Chairperson), NA. Bityi, TLV Makubhe, R. Nunu, BB Ntshela, FA Sibanda, Dr MM Sookwa, Pvd JF20 van Rievern SC, MM Zikawa (Council Chair), BK Motlana (CEO)



Label to be used on the following products only:

- citizen band radio equipment
- cellular equipment
- trunk radio equipment
- spread spectrum devices
- leased channel radio equipment
- cordless telephone
- wireless security devices
- wireless microphone
- radio-control equipment
- medical & biology telemetry equipment

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8. Instrument pack and message centre.
9. Audio controls.
10. Wiper/washer controls.
11. START/STOP button.
12. Audio system and controls.
13. Display screen.
14. Parking aid switch.
15. Central locking, unlock.
16. Hazard warning light control switch.
17. Central locking, lock.
18. Stop/start system off button.
19. Main climate control panel.
20. Air conditioning on/off button.
21. Dynamic stability control on/off button.
22. Terrain response control.
23. Power socket.
24. Handbrake lever.
25. Gear selector.
26. Hill descent control (HDC) switch.
27. Climate control recirculation on/off switch.
28. Remote control docking port.
29. Telephone controls.
30. Horn buttons.
31. Steering column adjustment lever.
32. Exterior mirror adjustment controls.
33. Window switches.
34. Window isolator switch.
35. Headlamp levelling control.
36. Rear fog lamp switch.
37. Main exterior lighting control.
38. Front fog lamp switch.
39. Instrument illumination dimmer control.

