

## SERVICE INTERVALS


An upcoming service interval will be notified to the driver via the Service Interval Indicator in the message centre. If the distance or time are exceeded, the display will show a negative value (-) to indicate that a service is overdue. See **58, SERVICE INTERVAL INDICATOR**.

## SERVICE PORTFOLIO

Vehicle identification information is recorded in the Service Portfolio by the selling dealer. The book also includes important information about customer care, owner issues, routine servicing, parts replacement and vehicle recalls.

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. Condensation drips from the air conditioning are normal.

## WEEKLY CHECKS

- Engine oil level.
- Engine coolant level.

- 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.
- Frequent wading.
- Frequent driving at high speeds in high ambient temperatures above 50°C.
- Frequent driving in severe cold weather below -40°C.
- Frequent driving in mountainous conditions.
- Frequent trailer towing.
- Driving in areas using road salt or other corrosive materials on the driving surface.

Contact your Dealer/Authorised Repairer for advice.

## ANTI-THEFT SYSTEM



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

## AIRBAG SYSTEM



**The components that make up the airbag system are sensitive to electrical or physical interference, either of which could easily damage the system and cause inadvertent operation or a malfunction of the airbag module.**

To prevent malfunction of the airbag system always consult your Dealer/Authorised Repairer before fitting any of the following:

- Electronic equipment such as a mobile phone, two-way radio or in-car entertainment system.
- Accessories attached to the front of the vehicle.
- Any modification to the front of the vehicle.
- Any modification involving the removal or repair of any wiring or component in the vicinity of any of the airbag system components, including the steering wheel, steering column, instrument or fascia panels.
- Any modification to the fascia panels or steering wheel.

## DISABILITY MODIFICATIONS

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

## 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.**

## 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 Dealers/Authorised Repairers.

## SAFETY IN THE GARAGE



**If the vehicle has been driven recently, do not touch 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.**



**Never work or allow any person to place any part of their body beneath a vehicle supported by a jack.**



**Keep your hands and clothing away from drive belts, pulleys and fans. Some fans may continue to operate after the engine has stopped. They may also start to operate after the engine is turned off and continue operating for up to 10 minutes.**



**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.**

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.

## 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.**

## 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.

## CHANGING A BULB



If the lighting has just been switched off, give the bulbs time to cool. Handling them when hot may cause personal injury.



Always replace bulbs with the correct type and specification. If you are in any doubt contact your Land Rover Dealer/Authorised Repairer for advice. See **199, BULB SPECIFICATION CHART**.



Before attempting a bulb change, ensure that the ignition and affected lamp are turned off. If the circuit remains live, a short circuit can occur which may damage the vehicle electrical system.

Not all bulbs are replaceable. The following bulbs can be replaced:

- Headlamps.
- Direction indicators.
- Side lamps.
- Reversing lamp.
- Rear fog lamp.
- Some interior lamps.

All other exterior lamps and some interior lamps are LED (light emitting diode) lamps and can be replaced only by a Land Rover Dealer/Authorised Repairer.

All replacement procedures require the removal of components to gain access to the bulbs.



Moving a headlamp unit should be undertaken only by a qualified technician. If in doubt, consult your Land Rover Dealer.

**Note:** To change any bulb in a headlamp unit, a cross head screwdriver and a 10mm spanner is required.

## XENON LAMPS



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. Replacement or maintenance of Xenon lamps should only be carried out by suitably qualified personnel.



Xenon lamp units operate at a very high temperature. Ensure that the lamp units have cooled before attempting to touch them.



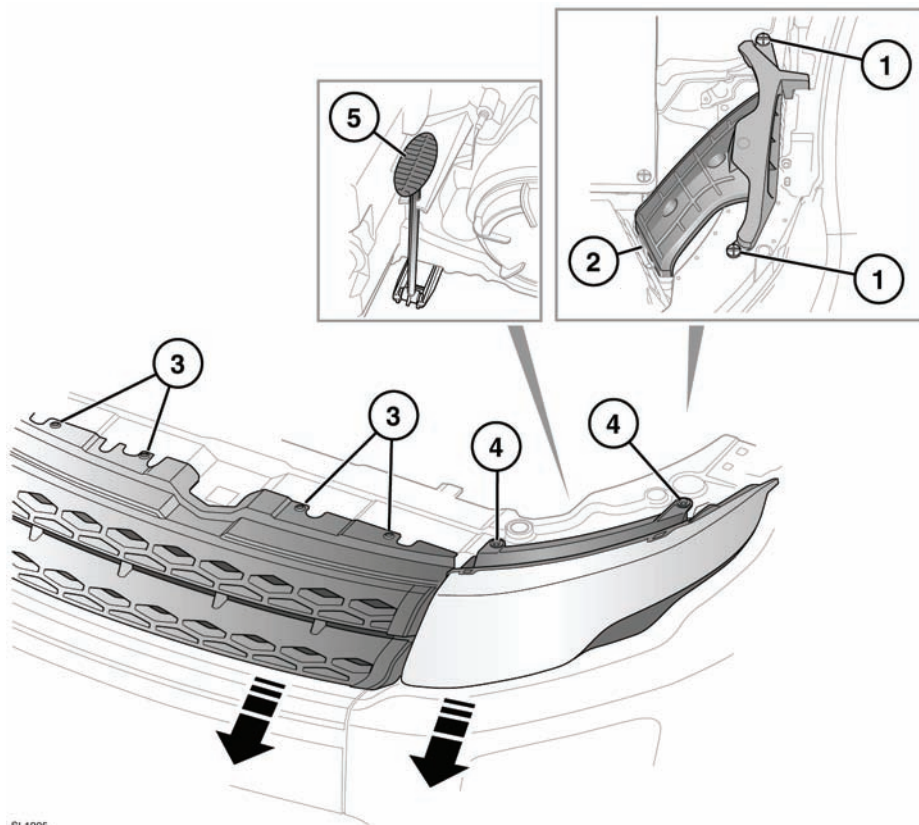
Xenon lamp units contain Mercury which is highly toxic and can be extremely harmful.



Seek advice about the correct disposal of Xenon lamp units from a Land Rover Dealer or your local authority.

## HEADLAMPS

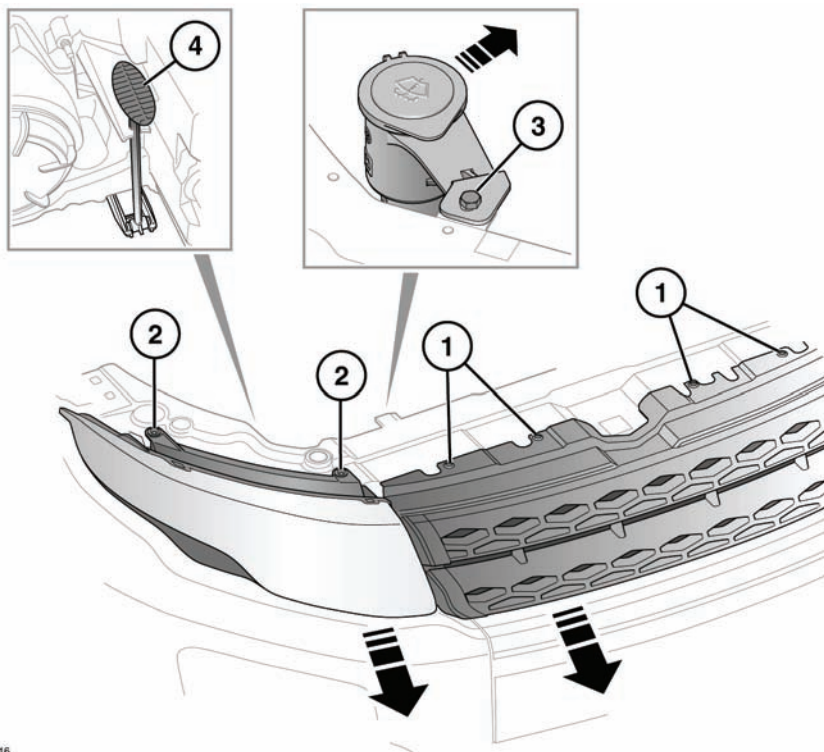
Moving the nearside headlamp unit to access bulbs;



SL1905

1. Remove the two plastic fixings.
2. Pull the tube up to release from the air box.  
This will allow more room for manoeuvrability.
3. Remove the four grille fixings.
4. Remove the two retaining bolts.
5. At the rear of the headlamp unit, pull up on the T grip release mechanism and hold while sliding the headlamp unit forward 40mm.

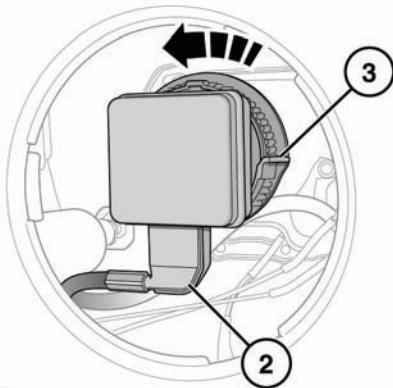
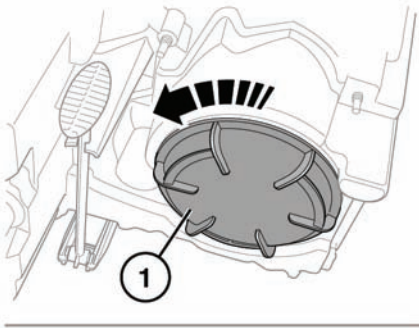
Moving the offside headlamp unit to access bulbs;



SL1916

1. Remove the four grille fixings.
2. Remove the two retaining bolts.
3. Remove the fixing then move the filler tube rearwards. This will allow more room for access to the bulb holders.
4. At the rear of the headlamp unit, pull up on the T grip release mechanism and hold while sliding the headlamp unit forward 40mm.

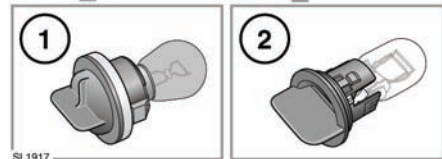
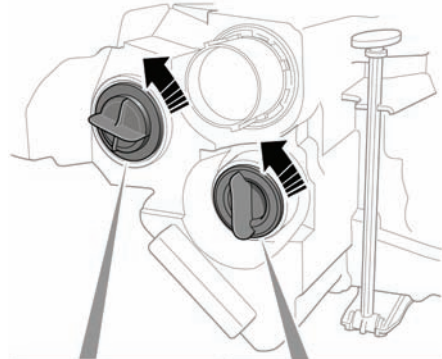
Removing a headlamp bulb;



- SL1910
1. At the back of the headlamp unit, remove the cover. Turn it counter clockwise to release.
  2. The back of the bulb unit will now be exposed. Pull down on the electrical connector to release it from the bulb unit.
  3. Turn the retaining collar counter clockwise to release the bulb. Remove the bulb unit from the housing.

## DIRECTION INDICATOR AND SIDE LAMP BULBS

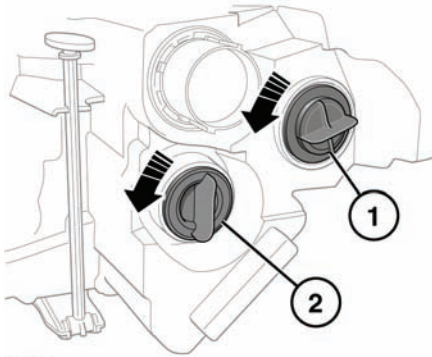
Removing the nearside bulbs;



To gain more room for accessibility, follow steps 1 and 2 for moving the nearside headlamp unit.

1. At the back of the headlamp unit, remove the indicator bulb housing. Turn it counter clockwise to release.
2. To remove the side lamp bulb housing. Turn it counter clockwise to release.

Removing the offside bulbs;

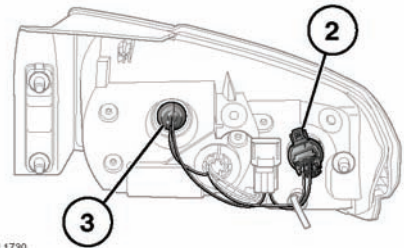
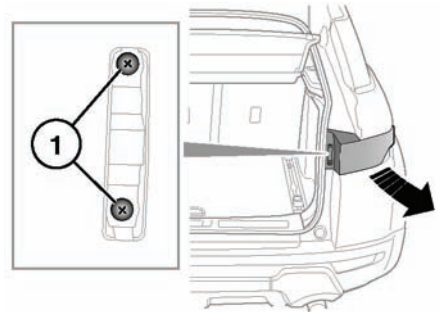


SL1918

To gain more room for accessibility, follow the process for moving the offside headlamp unit.

1. At the back of the headlamp unit, remove the indicator bulb housing. Turn it counter clockwise to release.
2. To remove the side lamp bulb housing. Turn it counter clockwise to release.

## REAR LAMP BULBS



SL1790

1. Remove the two fixings.
2. Direction indicator.
3. Reversing lamp

Turn the relevant bulb holder counter clockwise and pull to remove from the lamp unit. Grip the holder then press the bulb into the holder and turn counter clockwise to release the bulb. Pull the bulb up to remove.

## REAR FOG LAMP



Access to the rear fog lamp requires special tools and should be undertaken only by a qualified technician. If in doubt, consult your Land Rover Dealer/Authorised Repairer.



## CLEANING THE EXTERIOR

- ❗ Remove any heavy deposits of mud and dirt with a hose before washing the vehicle.
- ❗ Never aim a hose water jet directly at the engine air intake, heater air intakes, body seals or at any components which may be damaged.
- ❗ Do not use a high pressure washer or steam cleaner in the engine compartment.
- ❗ Following cleaning of the vehicle exterior (particularly with a pressure washer), it is recommended that the vehicle is taken for a short drive to dry out the brakes.
- ❗ Substances which are corrosive, such as bird droppings and tree resin, can damage the vehicle's paintwork and should be removed as soon as possible.
- ❗ Use only cleaning products approved for use on vehicles.
- ❗ Camera lenses must be treated with care. Clean with a low pressure hose and wipe with a damp cloth.

**Note:** Do not apply polish to any unpainted areas of the bumper mouldings. It will become ingrained in the textured finish.

## USING WHITE SPIRIT

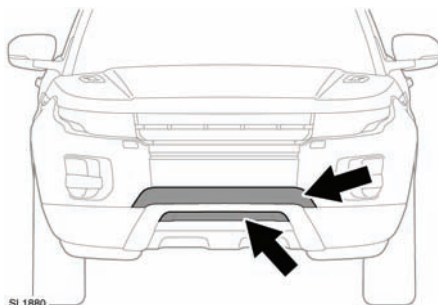
Stubborn stains such as tar spots and grease may require the use of white spirit. After use, ensure the area is washed immediately with warm soapy water to remove all traces of the spirit.

## UNDERBODY MAINTENANCE

Regularly flush the underbody with plain water, and pay particular attention to areas where mud and debris collect.

If damage or corrosion are detected, have the vehicle checked by your 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.

## CLEANING THE ALLOY WHEELS

- ❗ Only use approved wheel cleaning products.

## GLASS SURFACES

Clean the rear window with a soft cloth to avoid damaging the heating element. Do not scrape the glass or use any abrasive cleaning fluid.

Mirror glass is particularly susceptible to damage. Wash with soapy water. Do not use abrasive cleaning compounds or metal scrapers to remove ice.

To avoid damaging the protecting coating, only clean the interior side of the sunroof glass with a soft cloth. Do not scrape the glass or use abrasive cleaning fluids.

## CLEANING THE REAR SCREEN

To avoid damaging the heating elements when cleaning the inside of the rear screen, use only a soft damp cloth or chamois leather. Do not use solvents or sharp objects to clean the glass.

## REPAIRING MINOR PAINT DAMAGE

Regularly inspect the paintwork for damage. Any stone chips, fractures, or deep scratches, in the paint/bodywork should be repaired promptly. Bare metal will corrode quickly, and if left untreated can result in expensive repairs.

## CLEANING THE INTERIOR



**Some cleaning products contain substances that are harmful and can cause health problems if used incorrectly and may cause damage to the vehicle interior. Ensure that you read the manufacturer's instructions carefully.**

## CLOTH AND FABRIC



Never use soap, ammonia, bleach or other cleaners intended for use on hard surfaces.

Dynamica suede fabric should be cleaned regularly. Do not rub vigorously and do not use a steam machine. Dusting with a soft brush, a dry cloth or vacuum cleaner will be sufficient.

Do not use printed absorbent cloths or paper as they may transfer colour to the fabric.

## LEATHER



Use only cleaning products specifically designed for use on leather. Do not use solvents. 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 using Land Rover leather cleaner BAC500490.

To prevent ingrained dirt and staining, inspect the seat upholstery regularly and clean every one to two months as follows:

1. Wipe off fine dust from the seat surfaces using a clean, damp, non-coloured cloth. Change frequently to a clean area of cloth to avoid abrasive action on the leather surface. Avoid over wetting the leather.
2. If this is not sufficient, use a cloth which has been dampened with warm soapy water and then wrung out. Use only mild non-caustic soap.
3. Use Land Rover leather cleaner for heavily soiled areas. Dry off and rub 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, zipper fasteners, rivets, etc., can leave permanent scratches and scratch marks on the leather surface.

- Unless spillages such as tea, coffee or ink are washed away immediately, permanent staining may have to be accepted.
- Do not use a cleaning product that is not specifically for use in a vehicle. While these products may initially give impressive results, their use will lead to rapid deterioration of the leather and will invalidate the warranty.

If a valet service is used, ensure that the specialist concerned is aware of, and follows, these instructions precisely.

**Note:** *Some materials/fabrics are prone to dye transfer, which can cause unsightly discolouration of lighter coloured leathers. Affected areas should be cleaned and re-protected as soon as possible.*

## SEAT BELTS



**Do not allow any water, cleaning products, or fabric from cloths to enter the seat belt mechanism. Any substance which enters the mechanism may affect the performance of the seat belt in an impact.**

Extend the seat belts fully, then use warm water and a non-detergent soap to clean. Allow the seat belts to dry naturally while fully extended.

**Note:** *While 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 your Dealer/Approved Repairer.*

## AIRBAG MODULE COVERS



**Airbag covers should only be cleaned using a slightly dampened cloth, and a small amount of upholstery cleaner.**



**Any substance which enters the mechanism can prevent correct deployment of an airbag during an impact.**

## CARPET AND MATS

Marks or stains can be removed by gentle scrubbing with a weak solution of soap and warm water.

For more stubborn stains a commercially available carpet cleaner should be used.

## INSTRUMENT PANEL, TOUCH SCREEN AND AUDIO SYSTEM



Do not use upholstery cleaner on electrical equipment such as fascia switches.



When cleaning around electrical equipment such as switches, ensure that fluids do not leak into any gaps around the components or between panels or trim.

- Clean with a lightly moistened cloth.
- Do not use chemical agents or domestic cleaners.
- Do not allow sharp, hard or abrasive objects to make contact with screens.
- Avoid exposing screens to direct sunlight for long periods.
- To prevent errors occurring, ensure that only one finger at a time is in contact with the touch screen.
- Do not use excessive pressure.

## WIPER BLADE REPLACEMENT

Fit only replacement wiper blades that are identical to the original specification.

Before changing a wiper blade, the wiper arms must be set in the 'service' position as follows;

**Note:** *The Smart Key must remain in the vehicle while wiper blades are replaced.*

1. Ensure that the ignition is turned off.
2. Turn the ignition on then off again.
3. Immediately push the wiper control down to start the single wipe operation and turn on the ignition again.

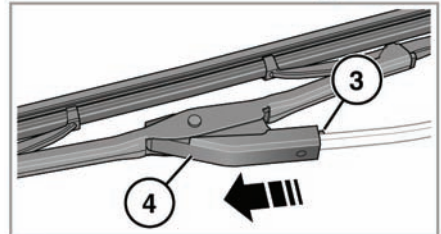
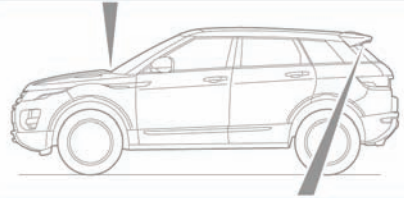
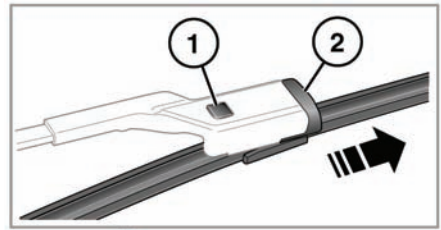
The wipers will move to their service position.

4. When the new parts have been fitted, turn the ignition off. This will return the wipers to park position.

**Front wiper blade:** Lift the blade clear of the screen.

1. Push down on the button and hold.
2. Pull the wiper blade away from the button.

When the new blade is pushed into the receiver, the button will click into place.



SL1904

**Rear wiper blade:** Lift the blade clear of the screen.

3. Prise the tab out and hold.
4. Slide the blade down the wiper arm to clear the mounting.

When the new blade is pushed into the wiper arm, the tab will click into place.