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OWNER'S HANDBOOK

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JAGUAR CARS LIMITED, as manufacturer, is dedicated to the design and production of vehicles which meet the expectations of the world's most discerning purchasers.

This handbook forms part of the owner literature supplied with your vehicle. It is designed to complement the relevant features and systems of the vehicle, and make them easy to understand and operate.

The information contained in this handbook applies to a range of vehicles and not to a specific vehicle. For the specification of a particular vehicle, owners should consult their Jaguar Dealer/Authorised Repairer.

The manufacturer reserves the right to vary its specifications with or without notice, and at such times and in such manner as it thinks fit. Major as well as minor changes may be involved in accordance with the manufacturer's policy of constant product improvement.

To cover changes, it is sometimes necessary to issue one or more handbook supplements. When reading this handbook, check the owner literature for possible supplements.

For full details of the owner literature originally supplied with the vehicle, owners should consult their Jaguar Dealer/Authorised Repairer.

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This book is printed on paper that originates from sustainable forests, is recyclable, bio-degradable and acid-free. The wood pulp is chlorine-free and the effluent water is purified before being discharged.

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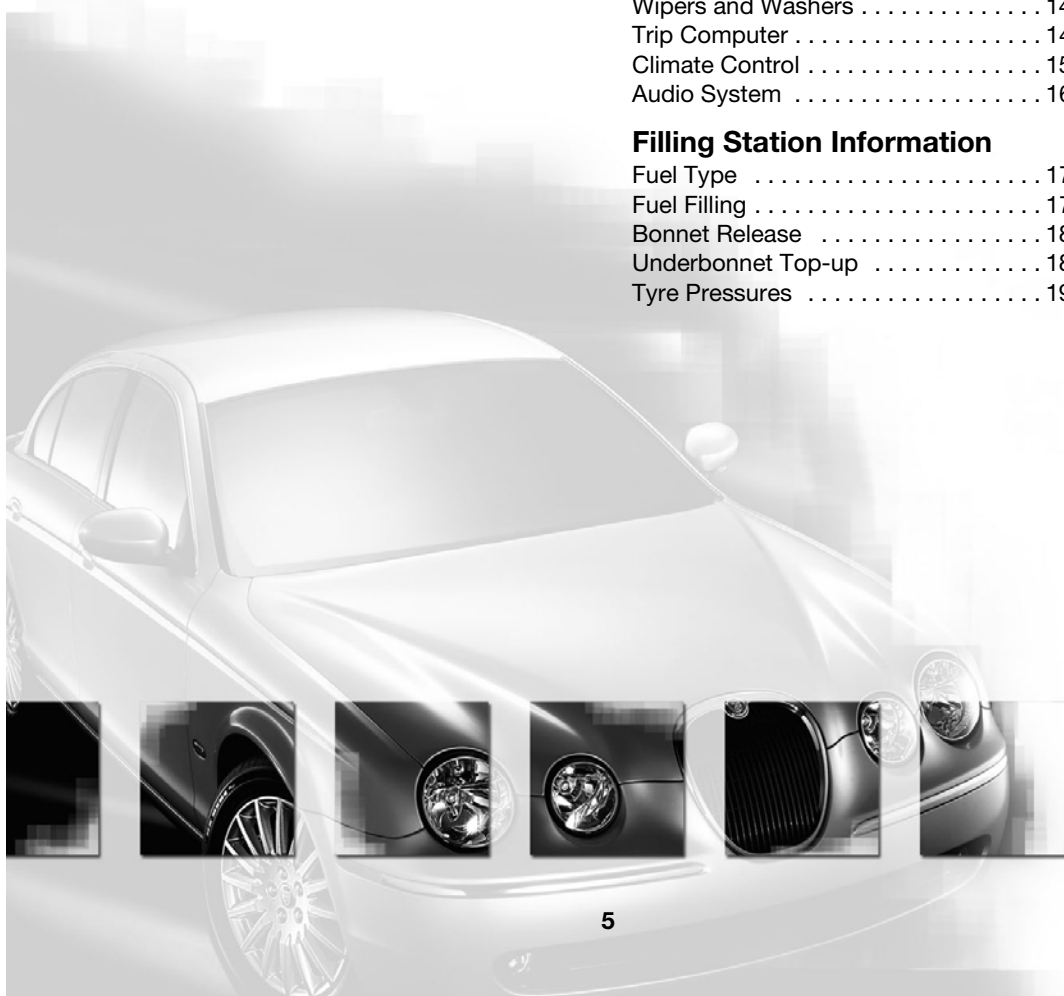
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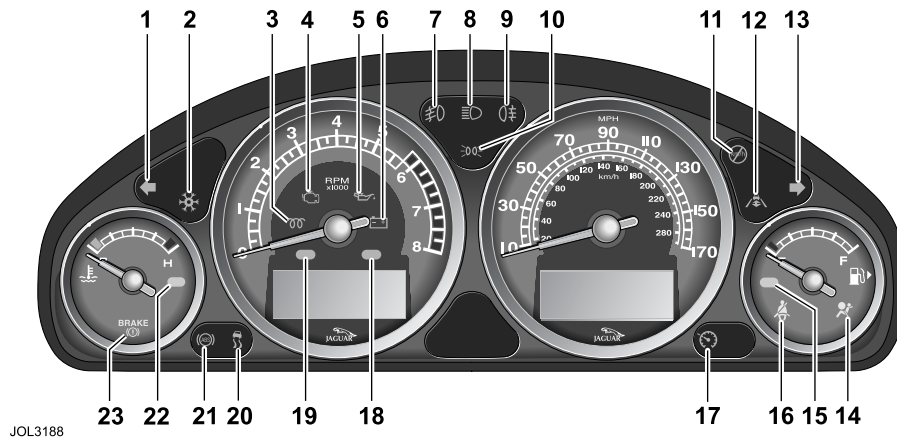
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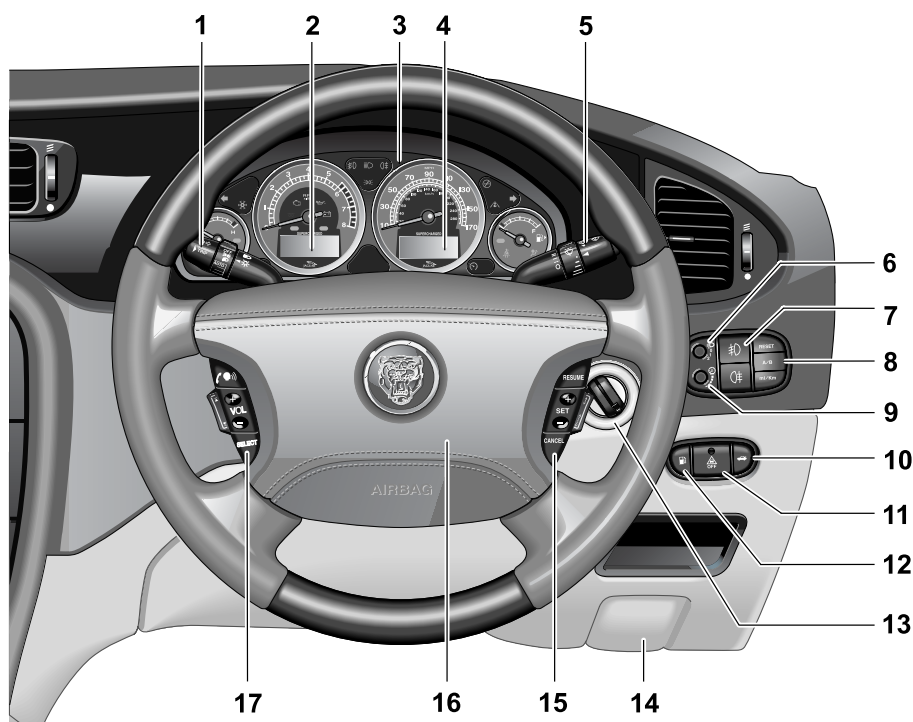
Warning Lights



- | | |
|------------------------------------|--------------------------------------|
| 1. Left-hand indicator. | 14. Airbag. |
| 2. Low outside temperature. | 15. Low fuel level. |
| 3. Glow plug (diesel only). | 16. Seat belt. |
| 4. Engine malfunction. | 17. Cruise control active. |
| 5. Low oil pressure. | 18. Priority indicator (Red). |
| 6. Battery charge indicator. | 19. Priority indicator (Amber). |
| 7. Front fog lights. | 20. Dynamic stability control (DSC). |
| 8. Main beam. | 21. Anti-lock braking system (ABS). |
| 9. Rear fog lights. | 22. High engine temperature. |
| 10. Side (parking) lights. | 23. Parkbrake on/brake fluid low. |
| 11. Overspeed warning (Gulf only). | |
| 12. Adaptive cruise control. | |
| 13. Right-hand indicator. | |
- For detailed information about instruments and warning lights, refer to pages 95 and 97 of this handbook.

Quick Overview

Fascia Controls

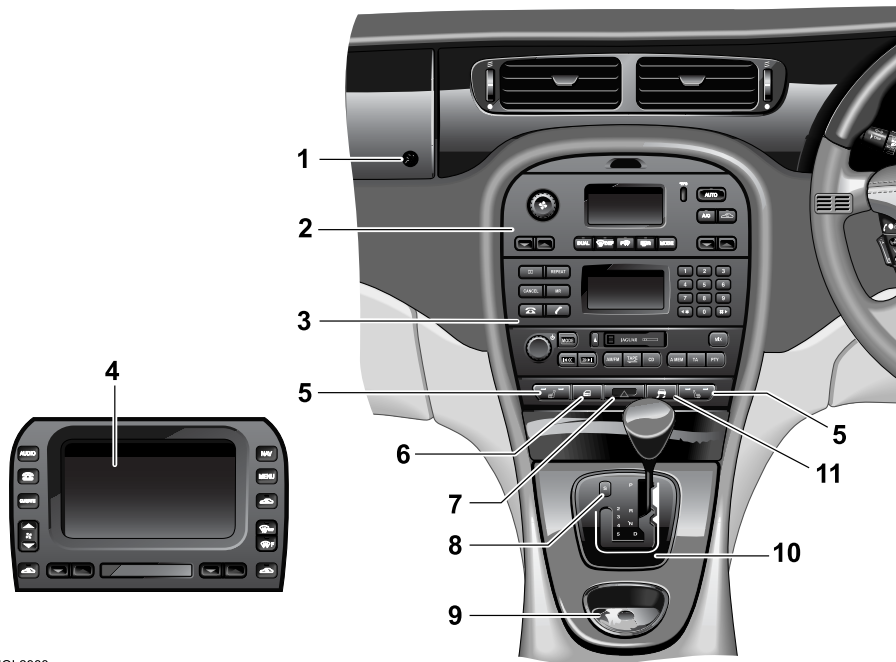


JOL3186

- | | |
|--|---|
| 1. External lights switch (119). | 12. Fuel filler flap release switch (151). |
| 2. Message centre (tachometer) (102). | 13. Ignition switch (33). |
| 3. Instrument panel (95). | 14. Bonnet release lever (198). |
| 4. Message centre (speedometer) (102). | 15. Cruise control or adaptive cruise control (if fitted) switches (111). |
| 5. Wiper/washer switches (130). | 16. Driver's airbag/Horn (128). |
| 6. Headlight levelling switch (122). | 17. Audio switches (see audio systems handbook). |
| 7. Fog lights (121). | |
| 8. Trip computer (108). | |
| 9. Dimmer switch (122). | |
| 10. Luggage compartment release switch (42). | |
| 11. Forward alert switch (117). | |
- Page numbers (shown in brackets) refer to pages in this handbook that have further relevant information.

Quick Overview

Centre Console

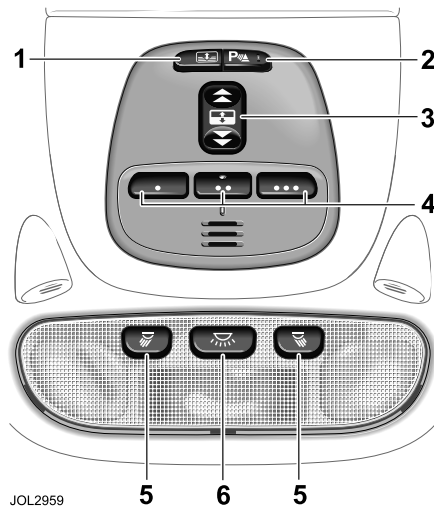


JOL2988

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Airbag OFF indicator light (66). 2. Climate control panel (162). 3. Audio panel (see audio systems handbook). 4. Navigation Screen, if fitted (see touch-screen display handbook). 5. Front seat heaters (79). 6. Door locking switch (39). 7. Hazard warning switch (124). 8. Sport mode switch (141). | <ol style="list-style-type: none"> 9. Parkbrake (132). 10. Gear selector (140). 11. Dynamic stability control switch (145). <p>Page numbers (shown in brackets) refer to pages in this handbook that have further relevant information.</p> |
|---|--|

Quick Overview

Overhead Console



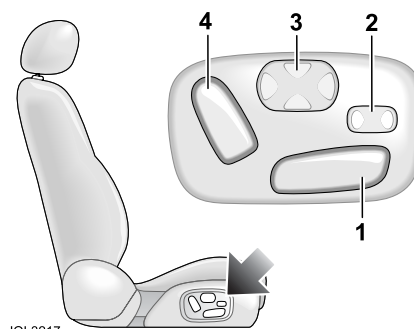
JOL2959

1. Rear sunblind.
2. Front and rear park distance control.
3. Sunroof.
4. Garage door opener.
5. Reading/map lights.
6. Front and rear courtesy lights.

Setting a Driving Position

It is advisable to first move the driver's seat to the correct position in relation to the pedals, gear selector and the front and side vision before adjusting the steering column, mirrors and seat belt.

Seat Adjustment



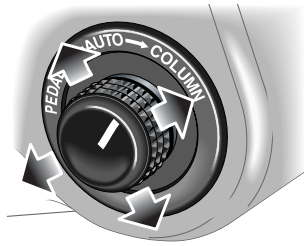
JOL3217

1. Adjusts the seat fore and aft position and cushion height and front tilt.
2. Adjusts the seat cushion extension (if fitted).
3. Controls the lumbar support in the lower backrest.
4. Adjusts the seat back angle (recline) and headrest height.

For more information on front and rear seat operation, see page 75.

Quick Overview

Steering Column Adjustment



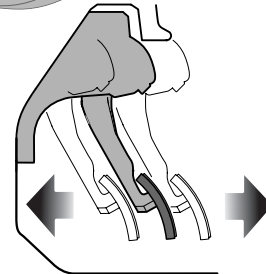
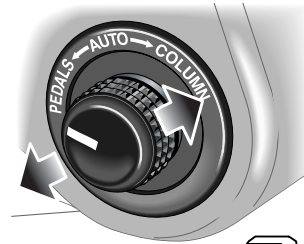
JOL3215

Rotate the switch on the left-hand side of the steering column to **COLUMN** (or **AUTO**) and move the switch to adjust the steering column until a comfortable position is obtained.

For entry/exit mode rotate the switch to **AUTO**. This will not activate if **PEDALS** or **COLUMN** is selected.

For full details on how to adjust the steering column, see page 81.

Pedal Adjustment (Where fitted)



JOL2962

Select **PEDALS** and move the switch fore and aft until a comfortable position is obtained.

Note: Any adjustment to the pedals is inhibited when cruise control is activated.

For information on pedal adjustment, see page 83.

Quick Overview

Door Mirror Adjustment



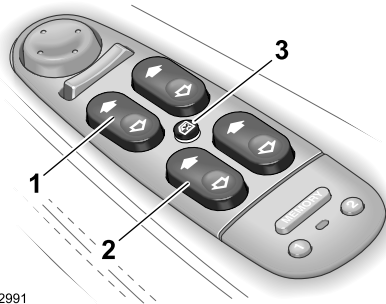
JOL3200

1. Adjusts the exterior mirrors.
2. Selects left or right-hand door mirror.

Power foldback (Where fitted): Set button (2) to the centre position, briefly press the rear of button (1). To return the mirrors to their normal driving position briefly press the rear of button (1) again.

For more information on door mirrors, see page 86.

Window Operation

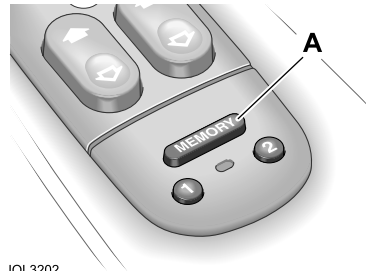


JOL2991

1. Opens/closes front windows.
2. Opens/closes rear windows.
3. Isolates operation of rear windows.

For more information on window operation, see page 84.

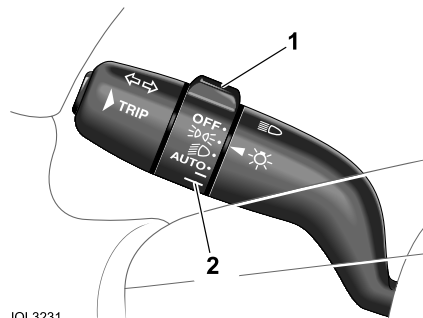
Setting Memory (Where fitted)



JOL3202

- Adjust your seat, steering column and exterior mirrors to your preferred position.
- Press **MEMORY (A)** and the red tell-tale will illuminate for 5 seconds.
- Press either **1** or **2** to store into the desired memory location while the LED is illuminated. A short acceptance tone is given.

Exterior Lights - Autolamps



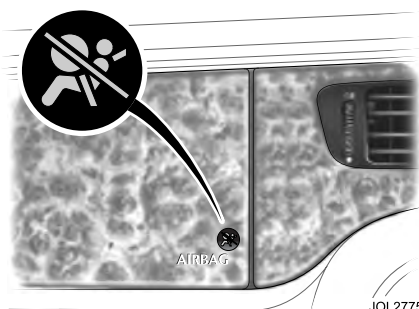
JOL3231

For AUTOLAMPS function rotate the rotary collar (1) to **AUTO (2)**.

For more information about exterior lighting, see page 120.

Quick Overview

Occupancy Sensing



The front passenger seat is equipped with a sensor that determines the occupancy status by measuring the weight on the cushion and changes the passenger airbag deployment status.

An indicator light is located on the passenger fascia and illuminates a symbol denoting passenger airbag deactivation.

- Seat with low weight occupant/object - airbag deactivated - indicator light **ON**.
- Seat with heavy occupant/object - airbag activated - indicator light **OFF**.
- * Seat completely empty - airbag deactivated - indicator light **OFF**.

* It is possible to receive an intermittent indicator light with an empty seat condition. This is part of the system adaptive behaviour and does not affect the status of the passenger airbag deployment.

However, if the indicator light becomes permanently illuminated when the seat is definitely empty, then consult your nearest Jaguar Dealer/ Authorised Repairer immediately.

Parkbrake



To apply parkbrake: Pull the parkbrake switch up and release. The warning light in the instrument cluster will illuminate.



To release parkbrake: The ignition switch must be in position 'II', apply the footbrake and push the parkbrake switch down.

Note: The parkbrake automatically applies when the ignition key is removed.

Auto transmission

The parkbrake is automatically released when the gear selector is moved from 'P' or by pressing the accelerator pedal when in gear.

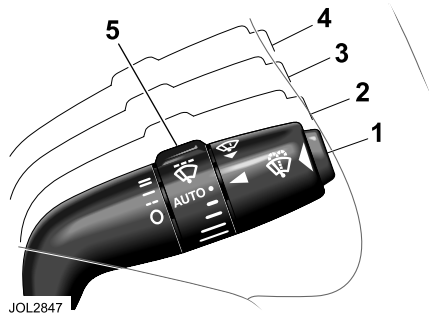
Manual transmission

The parkbrake is only released via the parkbrake switch or by driving the vehicle away with the accelerator depressed.

For full operating details, see page 132.

Quick Overview

Wipers and Washers



JOL2847

1. Wipers OFF.
2. Intermittent wipe.
3. Normal wiper operation.
4. High speed wiper operation.
5. Intermittent delay collar - rotate to vary the wipe delay and AUTO (rain sensitive wiper operation).

Note: If the wipers are switched on in **AUTO** for more than 20 seconds and **AUTOLAMPS** has been selected, then the exterior lights will be switched on.

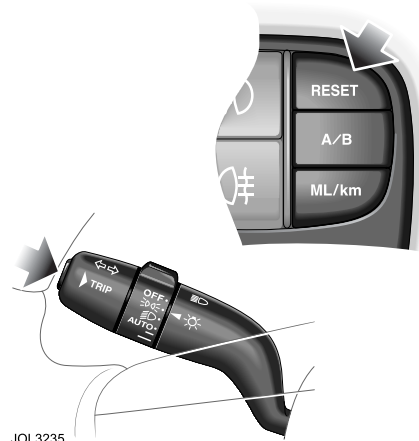
Caution: Ensure that **AUTO** is not selected when entering a car wash or damage to the wiper blades/arms can occur.

Flick wipe - pull towards the steering wheel.

Wash/wipe - push the button on the end of the column switch.

For full details on how to operate the wipers/washers, see page 130.

Trip Computer



JOL3235

To reset

Press and hold the **RESET** button for three seconds.

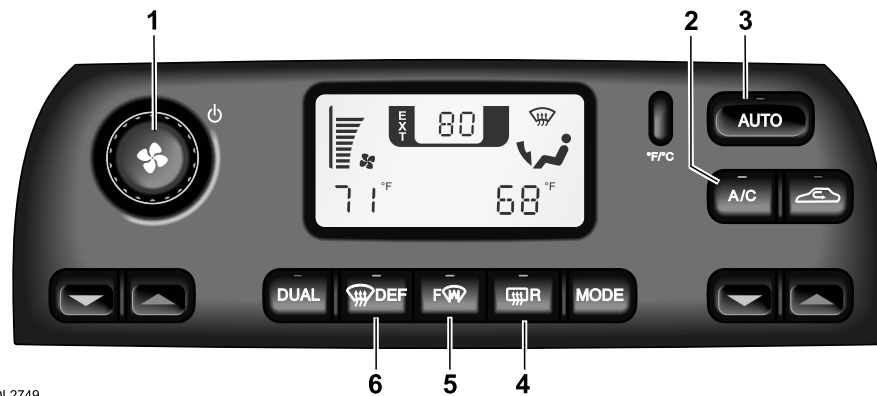
To display

Press the **TRIP** button on the end of the left column stalk switch to cycle through the display data.

Note: Messages can be hidden by one press of the **RESET** button.

Quick Overview

Climate Control



JOL2749

1. Push for system ON/OFF, rotate for manual blower speed.
2. Air conditioning.
3. Automatic operation.
4. Heated rear screen.
5. Heated front screen (if fitted).
6. Defrost.

It is normal for puddles of liquid to occur under the vehicle, particularly in hot/humid conditions.

For full details of climate control, see page 159.

For optimum comfort and system operation:

- Optimum temperature control and comfort is achieved by selecting **AUTO**.
- Operate with **A/C** on throughout the year to reduce the risk of misting.
- A/C operates automatically in **DEF** and partial screen modes to maximise screen clearance. **A/C** cannot be switched off in **DEF**.
- Recirculation is automatically cancelled in **DEF** and in partial screen modes as it contributes to misting. Recirculation cannot be selected in **DEF**.

Quick Overview

Audio System



JOL2750

1. ON/OFF switch and volume control.
 2. Seek AM/FM station, seek tape or cue/rewind CD.
 3. AM/FM radio waveband select.
 4. Select cassette tape play when in other audio mode. Change tape side when a tape is playing.
 5. Select CD changer.
 6. Pre-set buttons and phone key pad.
 7. Phone mode.
 8. Cassette tape eject.
 9. MiniDisc eject.
 10. Select CD changer.
 11. Select MiniDisc play when in other audio mode.
 12. CD eject.
 13. Select CD changer.
 14. Select CD play when in other audio mode.
- For all other options and functions, see the audio systems handbook.

Filling Station Information

Fuel Type

Petrol models - Unleaded 95 RON.

Diesel models - Diesel fuel to EN 590 or equivalent.

Caution: DIESEL ENGINES - If you inadvertently fill your vehicle with petrol instead of diesel, do not attempt to start the engine.

Contact your Jaguar Dealer/ Authorised Repairer immediately. Attempting to start the engine with petrol in the fuel tank will cause extensive damage to the engine and fuel system, which will not be covered by your Jaguar warranty. Jaguar can accept no responsibility for any damage caused by running your vehicle with petrol or vegetable oil in the fuel tank.

Diesel engines only: Driver's should expect above normal fuel consumption when the engine is new and 'bedding-in'. After a period, the fuel consumption will gradually improve to expected fuel consumption levels.

Caution: Do not use RME (bio-diesel) except in the case of proprietary diesel fuels which contain a mix of up to 5%.

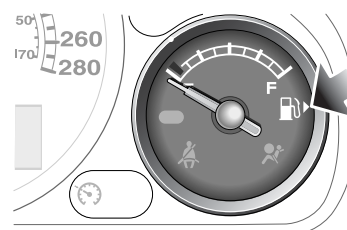
Note: Vehicles with a diesel engine have a **yellow** filler cap.

Fuel Filling



JOL2751

Press the fuel filler flap release. This is located on the driver's knee bolster switch below the fascia, see page 151.



JOL3284

The filler flap is located on the right-hand side of the vehicle.

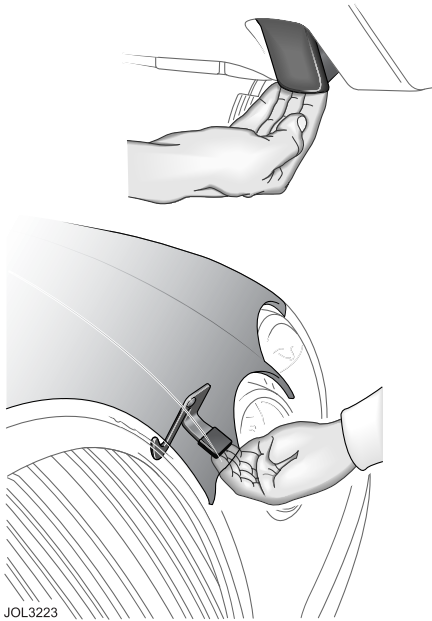
For quickness and to completely fill the tank, ensure that the fuel nozzle rests on the bottom of the filler neck.

Incorrect closure of the fuel filler cap may result in check engine light (malfunction indicator light) illuminating.

After refuelling, refit the fuel filler cap in the filler neck, twist the filler cap clockwise until it clicks and close the flap, which automatically locks shut.

Filling Station Information

Bonnet Release



JOL3223

Pull the release lever located below the fascia on the driver's side of the vehicle (see page 198).

Underbonnet Top-up

Recommended Engine Oil.

See page 204.

Petrol models -

Castrol 5W-30 to Jaguar specification WSS M2C913 - A or B.

Diesel models -

An oil of 5W-30 viscosity to Jaguar specification WSS M2C913 - B must be used in all vehicles with a diesel engine.

For **top-up purposes only**, where the WSS M2C913 - B specification cannot be found, ACEA B1 or ACEA B3 specification oils may be used.

Windscreen/Headlight Washer Reservoir.

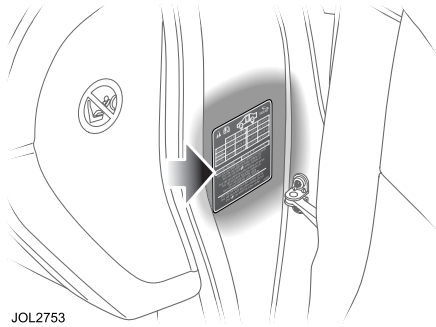
See page 208.

Coolant System

50% water/50% anti-freeze, see page 205.

Filling Station Information

Tyre Pressures



The tyre pressures for all normal operating conditions are shown on a label fixed to the inside of the driver's door front pillar.

Check pressures when the tyres are cold (see page 214). Deflating air from a warm tyre to the recommended pressure will result in under inflation which may be dangerous.

For your convenience you may wish to record the tyre pressures in the boxes provided below. If you are unsure of the correct pressures, please contact your Jaguar Dealer/Authorised Repairer.

	FRONT
Normal Driving	<input type="text"/>
Laden/High Speed	<input type="text"/>
Spare Wheel	<input type="text"/>
	REAR
Normal Driving	<input type="text"/>
Laden/High Speed	<input type="text"/>
Spare Wheel	<input type="text"/>



WARNING:

When using tyres other than those recommended by Jaguar, do not exceed the speed capacity recommended by the manufacturer.

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General Information

Introduction

Whether you are new to the Jaguar marque or have previously owned Jaguar vehicles, we are pleased that you have made Jaguar your choice of vehicle this time.

For safety and the pleasure you will get from your new vehicle, please take the time to get well acquainted with your vehicle by reading the handbooks.

Details of the vehicle warranty are contained within the 'Warranty Benefits' book.

When left-hand or right-hand is used in the text, this refers to the left-hand side or right-hand side of the vehicle, viewed from the rear.

This Handbook describes every option and model variant available and therefore some of the items covered may not apply to your particular vehicle.

Jaguar Dealers/Authorised Repairers

Jaguar Dealers/Authorised Repairers are chosen with care. Each is dedicated to providing a Sales, Service and Spare Parts facility of the highest standard.

Jaguar Dealers/Authorised Repairers are provided with full technical support from the factory, with comprehensive training for all their technicians. Dealers'/ Authorised Repairers' workshops operate to a high standard and have all the necessary tools and equipment essential to maintain or repair Jaguar vehicles.

Genuine Jaguar parts and accessories

Your Jaguar Dealer/Authorised Repairer can supply you with genuine replacement parts and accessories which are fully approved to Jaguar's original equipment specification. This will ensure that the safety and performance of your vehicle is maintained for your complete peace of mind.

Please note that fitment of non-genuine parts may invalidate the vehicle warranty if a subsequent fault occurs due to fitting sub-standard replacement parts or accessories.

Jaguar parts distribution service

Jaguar Dealers/Authorised Repairers stock a large number of parts to keep your vehicle maintained and get you back on the road as quickly as possible. Their service is supported by six strategically positioned Jaguar parts distribution centres in the United Kingdom, Germany, Japan, Australia and two in North America, providing next-day delivery to the vast majority of world-wide Dealers.

Accessories

A full range of Jaguar Engineering approved accessories including safety, stowage, touring, leisure and lifestyle products are just some of those available from your Jaguar Dealership.

Please ask your Jaguar Dealer for an up-to-date brochure so you can select your requirements from the latest range.

General Information

Warnings, Cautions and Notes

Take particular note of WARNINGS, Cautions and Notes given throughout this handbook.



WARNING:

A warning is a procedure which must be followed precisely to help avoid the risk of personal injury.

Caution: A caution is a procedure which must be followed precisely to reduce the possibility of damage to the vehicle and resultant risk of personal injury or inconvenience.

Note: *A note is a procedure which will help avoid difficulties in the operation of the vehicle.*

Warning Symbols on the Vehicle



JOL2756

On encountering the warning triangle or open book symbol on the vehicle, it is important that before touching this part of the vehicle or attempting adjustments of any kind you consult the relevant section of this handbook.

Caution: Do not remove any warning labels from the underbonnet area or inside the vehicle.

Vehicle Handbooks

Remember to pass on the Vehicle Handbooks when reselling the vehicle. Handbooks are integral parts of the vehicle.

Regular Servicing

Each vehicle is given a full 'Pre-Delivery Inspection' to ensure that all systems function correctly and that the vehicle meets its specification.

Owners are responsible for the regular maintenance and servicing of the vehicle. Jaguar Dealers/Authorised Repairers will be pleased to arrange periodic servicing and can provide you with details of tasks carried out at each service interval.

Failure to implement maintenance at the recommended intervals could result in deterioration of vehicle performance and possible infringement of regulations.

Regular routine maintenance not only helps to prevent unnecessary 'breakdowns' and inconvenience, but enhances the 'trade in' or resale value of the vehicle.

Jaguar Diagnostic System

Many of the vehicle systems are controlled by complex electronic devices. Specialist equipment is required to trace and rectify faults in the systems and ensure that only faulty components are repaired or renewed.

General Information

Caution: Severe damage to the electrical system and electronic components can occur if any attempt is made to diagnose faults in the electrical system using conventional diagnostic equipment (for example, the use of test lamps or low impedance voltmeters). The fitting of any electrical accessory should only be entrusted to a Jaguar Dealer/Authorised Repairer.

Vehicle Identification

Vehicle identification number (VIN)

It is essential that the Vehicle Identification Number (VIN) is quoted in all correspondence and when ordering replacement parts.

The number is visible from outside the vehicle, on a plate in the lower left edge of the windscreen.

Vehicle build date (Australia only)

This is the calendar month and year in which the body and powertrain assemblies were conjoined and the vehicle was driven from the production line. The build date is shown on a plate located on the left-hand side upright surface of the spare wheel well.

Certification label

Vehicles have the Certification Label adhered to the left-hand front door hinge post. Vehicle weights, paint code, manufacture date and the VIN are shown on this plate.

Engine number

Petrol engines:

V6: The number is located on the lower left-hand side of the cylinder block near the bedplate.

V8: The number is located on the rear left-hand side of the cylinder block, either adjacent to the transmission flange, or on the left-hand side web towards the rear of the cylinder block.

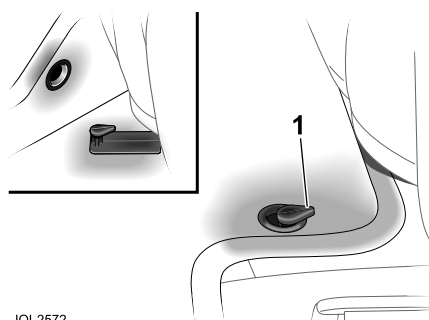
Diesel engines:

The number is located on a metal label attached to the top of the left-hand camshaft cover.

Transmission number

On a metal label or bar code label attached to the transmission casing.

Floor Mat Retention



JOL2572

Ensure that the driver's floor mat is correctly positioned and secured under the tongues on the retention posts (1, only one post shown), so that the mat does not interfere with the operation of the accelerator, clutch or brake pedals.

In particular, check the position of the mat when refitting after cleaning or servicing.

General Information

Leather Care Guide

Leather is a natural product, therefore, it bears natural characteristics, such as grain variations, growth and brush marks. These non-weakening marks show the true nature of the hide and are the hallmarks of a leather product. Leather is an easy to maintain natural product, however, dust and substances can penetrate the pores and crease the leather, causing surface wear and brittleness.

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

- Wipe off fine dust from the seat surfaces at regular intervals 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.
- If this is not sufficient, use a cloth which has been dampened with warm soapy water and then wrung out. Never allow the leather to be soaked through. Use only mild non-caustic soap.
- Use Jaguar Leather Cleaner for heavily soiled areas. Dry off and rub with a clean soft cloth, changing surfaces regularly.

When staining (eg: from clothing) or spillage occurs, clean the affected area immediately as described above.

It is recommended that Jaguar Leather Cleaner is used several times a year to maintain its appearance and suppleness. The Jaguar Leather Cleaner will nourish and moisturise the leather and help to improve and renew the surface protective film against dust and substances.

- Do not use solvents such as petrol (gasoline), white spirit or alcohol. Do not use detergents, furniture polish or household cleaners. Such strong treatments may give, initially, an impressive appearance, but their use will lead to rapid damage or deterioration of the natural properties of the leather. Jaguar recommend a basic set of products that have been specially selected for the type of leather in your vehicle. The Manufacturer's Warranty will be invalidated if treatments are used other than those recommended by Jaguar Cars Limited.
- Dark clothing may stain leather seats just like other upholstery products.
- Sharp objects such as belts, zip 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.

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

For any further questions please consult your Jaguar Dealer/Authorised Repairer for specialist advice.

General Information

On-board Event Data

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 brake systems.

In order to properly diagnose and service your vehicle, Jaguar Cars Limited and service and repair facilities may access vehicle diagnostic information through a direct connection to your vehicle when diagnosing or servicing your vehicle.

Event Data Recording

Other modules in your vehicle - 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 information such 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 depressing the accelerator and/or the brake pedal.
- How fast the vehicle was travelling.
- Where the driver was positioning the steering wheel.

To access this information special equipment must be directly connected to the recording modules. Jaguar Cars Limited 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 Jaguar Cars Limited.

Window Tinting



WARNING:

Do not have your vehicle windows tinted with a metal oxide tinting (for maximum heat reduction from sun load) if you have a navigation system fitted to your vehicle.

Metal oxide tinting prevents the reception of the Global Positioning System (GPS) signals by the antenna, causing the navigation system to stop functioning.

A non-metal tinting should be used if you require window tinting and if in doubt, contact your Jaguar Dealer/Authorised Repairer for advice.

General Information

Mobile/Portable Telephones

**WARNING:**

- Using a mobile/portable telephone without an exterior antenna is not recommended when driving as the electro-magnetic fields produced can cause malfunctions with the vehicle electronic systems.
- Using any hand-held appliance while driving can be dangerous and is illegal in certain countries.
- Always stop the vehicle before making a call and ensure that the telephone is switched off while you are driving.

Protect the Environment

We must all play our part in protecting the environment. Correct vehicle usage and disposal of waste cleaning and lubrication materials are significant steps towards this aim.

Avoid using high engine speeds. You will then protect your engine, reduce fuel consumption, lower the engine noise level and help towards reducing the environmental burden.

Dispose of batteries, tyres, engine, brake and coolant fluids at your local authorised waste disposal facilities.

Health and Safety

Health and Safety



WARNING:

- Many liquids and other substances used in vehicles are poisonous and should never be consumed and must be kept away from open wounds. These substances include anti-freeze, brake fluid, fuel, windscreen washer additives, lubricants and various adhesives.
- The presence of any unusual fumes (for example, petrol, diesel or exhaust fumes) in the passenger compartment and/or luggage compartment should be corrected immediately by a Jaguar Dealer/ Authorised Repairer. If you must drive under these conditions do so only with all windows fully open.
- By operating other electronic equipment (for example, a mobile phone without an exterior antenna) electro-magnetic fields can cause malfunctions of the vehicle electronics. Therefore, you should observe the instructions of the equipment manufacturers.
- Do not disconnect any pipes in the air conditioning refrigeration system. A refrigerant is used which can cause blindness if allowed to contact the eyes. If refrigerant should contact the eyes or skin, wash the eyes or affected area with cold water for several minutes. Do not rub. As soon as possible thereafter, obtain treatment from a doctor or eye specialist.
- Any modifications to the fuel system not specifically designed for this Jaguar are prohibited. Such modifications in some circumstances could result in a fire. All service actions must be entrusted to a Jaguar Dealer/ Authorised Repairer.
- When working within the engine compartment, take care to avoid contact with moving parts and hot components, and ensure that any metal objects do not short circuit the battery connections.
- Alterations to the electrical system, including the fitting of accessories not designed for this Jaguar, will cause damage to the electrical circuits and systems. In some circumstances this could result in a malfunction or fire. All accessory work should be entrusted to a Jaguar Dealer/Authorised Repairer.
- No attempt should be made to repair a fuse that has blown. Always install a new fuse of the correct amperage. Failure to comply with the above may cause a fire hazard or create serious damage elsewhere in the electrical circuit.
- Avoid contact with battery acid which is poisonous and corrosive. Acid will cause burns to the skin as well as to the eyes. In the event of skin or eye contamination, wash the affected area with water thoroughly. Seek immediate medical attention when eye contact has occurred.

L

Security and Locks

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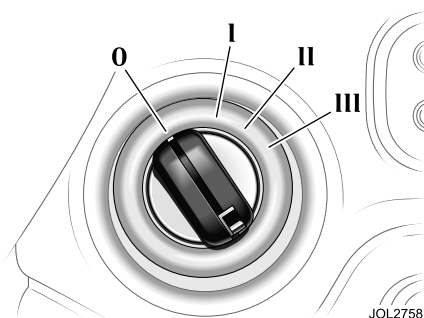
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Ignition Switch

Ignition Switch



The fascia-mounted ignition switch, on the right-hand side of the steering column, has four key positions:

- 0** Ignition OFF
- I** Auxiliary
- II** Ignition ON
- III** Engine start

When the key is turned back to the OFF position, the delayed accessory feature becomes active, so long as the driver's and front passenger's doors are shut and remain shut. The circuits available in the auxiliary position remain activated for a preset timed period.

Position '0': Is the only position in which the key can be inserted and removed. When the key is removed the steering lock is engaged.

Position 'I': Allows use of some electrical circuits, for example, radio operation.

Position 'II': All electrical circuits except the starter motor are activated. The key remains in this position when driving.

Position 'III': The starter motor is operated for as long as the key is held in this position, against spring pressure.

To Remove the Ignition Key

Manual transmission vehicles only

Apply the parkbrake and turn the key to position '0'. The key can then be removed from the switch.

Automatic transmission vehicles only

Automatic transmission vehicles have a key interlock feature.

Apply the parkbrake, place the gear selector in 'P' and turn the key to position '0'.

The automatic transmission gear selector must be placed in Park 'P' before the key can be removed from the ignition switch. When the key is removed, the gear selector will be locked in Park.

Gearshift Interlock

A brake pedal/gearshift interlock system is incorporated in the automatic transmission gear selector mechanism. See page 140.

Steering Column Lock

The steering column lock is remote from the ignition switch and controlled electronically. The lock will engage when the key is removed from the ignition switch while the vehicle is stationary. The lock will disengage when the key is placed in the ignition switch.

The lock can be heard as it engages and disengages.

Vehicle Security

Introduction

When leaving the vehicle unoccupied, remember the following:

- Apply the parkbrake and, with automatic transmission, move the gear selector to Park 'P'.
- Do not leave children or pets in the vehicle unattended.
- Do not leave luggage or valuables on view. Always take your valuables with you or lock them in the luggage compartment.
- Remove the ignition key and spare keys, even when the vehicle is in your garage.
- Close all windows and lock all doors securely.
- Park the vehicle where it can be seen. At night, park in a well-lit area.
- When leaving the vehicle unattended, for maximum security ensure that the doors are double-locked (where fitted).
- Ensure that all key transmitters are removed from the vehicle before locking the doors, and that all doors, the luggage compartment and the bonnet are closed.

It is important to keep your keys in safe places at all times. Leaving them in conspicuous places is an invitation for a thief to steal them and, consequently, your vehicle or belongings. Keep them as secure as you would your wallet or purse, both at home and away.

Immobilisation System

This vehicle is equipped with an immobilisation system which prevents it from being driven away by an unauthorised person.

An electronic device is fitted in the head of each key which is programmed to the vehicle electronics. When the key is placed in the ignition switch, a sophisticated decoding process is used to validate the key transponder code. The engine cannot be started unless the key is programmed to the vehicle electronic systems.

When turning the key in the ignition switch to start the engine, if the security status light on the centre console remains flashing, a fault condition is indicated, and it is possible that the engine will not start. Please contact a Jaguar Dealer/ Authorised Repairer to investigate the cause of the light flashing even if the engine starts.

Keys

Vehicles are supplied with two key transmitters, which comprise the key body integrated with the remote transmitter. Separate keys, without the transmitter, are also available from Jaguar Dealers/Authorised Repairers.

The key operates all the locks on your vehicle. The key number is recorded on an adhesive label which is fixed to the back of each key. Peel off the label and keep safely, not in the vehicle.

A maximum of eight keys can be used, of which up to four may be key transmitters. All the keys and transmitters used must be programmed to the vehicle by a Jaguar Dealer/Authorised Repairer.

Vehicle Security

Radio Frequency Approval

If the type approval of your key transmitter requires inspection, refer to the table below.

Type Exam. Certificate Number:
CERT 980154-01

Country	Approval Number
All EU and EFTA countries	CE 0700 !

Key Transmitter



JOL2759

The security system can be controlled remotely by a radio frequency, battery-operated, integrated key transmitter.



Unlocks and disarms the vehicle. Pressing and holding the button will globally open the vehicle windows (and sunroof, where fitted).



Releases the luggage compartment lock.



Activates the convenience headlight feature and sounds the panic alarm (where fitted).



Locks/double-locks and arms the vehicle.



Locks/unlocks the key. To free the key, press the release button. When not required press and hold the button and fold the key into the transmitter housing.

Note: Key transmitters will not operate if a key is in the ignition.

Each integrated key will operate the ignition switch, and lock the doors and glove compartment.

Caution: Should a key transmitter be lost, a new one can be obtained and programmed to the vehicle by a Jaguar Dealer/Authorised Repairer, who will ask for proof of vehicle ownership. It is advisable to notify a Dealer/Repairer as soon as a key transmitter is lost or stolen and have the remaining key transmitter(s) reprogrammed. This will then prevent the lost or stolen key transmitter from being used to disarm and unlock the vehicle.

Note: Jaguar Dealers/Authorised repairers keep a log of all enquiries for replacement keys and notify Jaguar Cars Limited of any such requests.

The key transmitter number is recorded on a self-adhesive label attached to the back of each transmitter. Peel off the label and attach it to the designated area on the Security Card supplied in the vehicle literature pack. It is recommended that the Security Card is kept safely, but not in the vehicle.

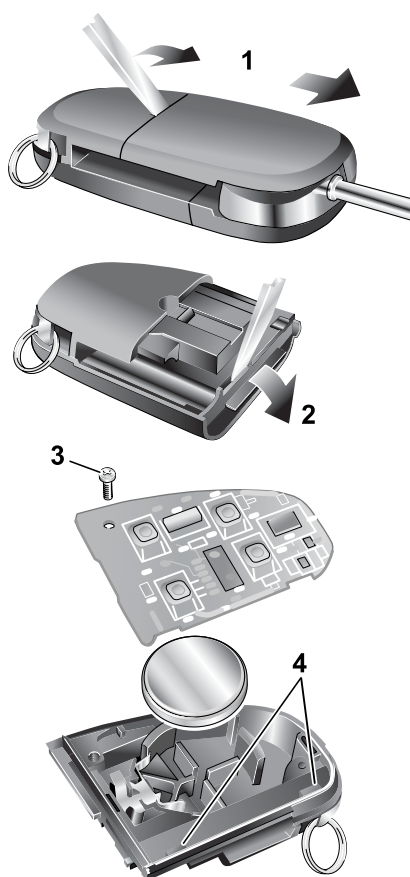
Vehicle Security

Care of key transmitters

The key transmitters must be treated with care and not exposed to extremes of heat, dust, humidity or be in contact with fluids. Do not leave the transmitter exposed to direct sunlight.

The battery is the only serviceable part.

Key Transmitter Battery Renewal



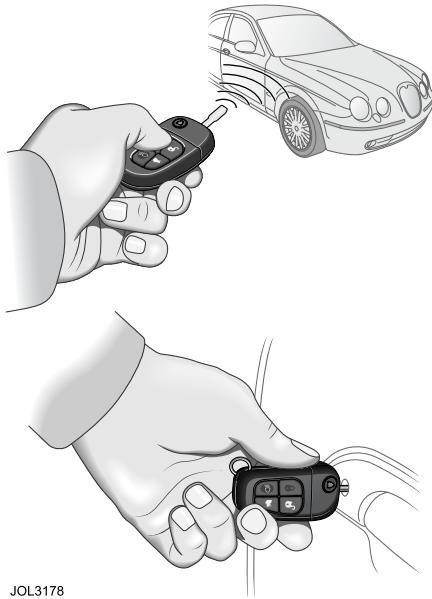
JOL2581

When the battery needs renewal there will be a significant decrease in the effective range of the key transmitter. To renew the battery, follow the procedure below:

- Insert a small, flat-blade, screwdriver at an angle of about 45 degrees, into the slot on the back of the key transmitter as shown (1). Apply light pressure to the screwdriver and lever the screwdriver forward to separate the two halves of the key transmitter. Pull the transmitter from the key body.
- Insert the screwdriver into the slot between the transmitter covers adjacent to the key stowage area as shown (2). Apply light pressure to the screwdriver and lever the screwdriver downward to separate the covers.
- Unscrew and remove the small screw (3) and remove the printed circuit board, taking care not to touch the battery terminals. Remove the battery and dispose of it safely.
- Fit a new battery cell, type CR2032 (available from your Jaguar Dealer/ Authorised Repairer), with the side marked with the positive symbol (+) downwards in the battery receptacle. Avoid touching the new battery as moisture/oil from the fingers can reduce the life of the battery and corrode the contacts.
- Replace the printed circuit board making sure to engage the board under the securing tabs (4), and secure with the screw.
- Refit the cover and click into place with thumb pressure.
- Slide the transmitter back onto the key body until it clicks into place.

Door Locks

Key Transmitter Use



All doors can be locked and unlocked either remotely using the key transmitter buttons, or by using the integrated key.

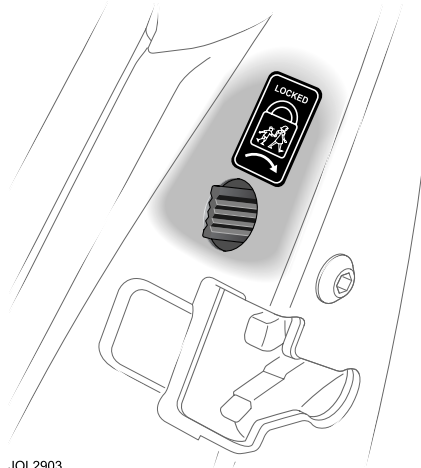
Smart Locking

This feature helps prevent locking the key in the vehicle.

If the driver's door is open and an attempt is made to lock the doors using the driver's door interior locking lever, all doors will lock, and then unlock.

If the front passenger door locking lever is used to lock the doors when the front passenger door is open, all doors will lock and then unlock. (The vehicle can only be locked from the outside by using the key in the driver's door lock or remotely using the key transmitter.)

Child Safety Locks



Child safety locks are fitted to the rear doors. The operating lever is fitted above the door lock mechanism.

To operate: Open the door and move the lever a quarter turn. This immobilises the interior handle.

The door can then only be opened using the exterior door handle.

Open the door and move the lever to its original position to remove the child lock feature.

Vehicle Locking and Unlocking

To lock the vehicle and set alarm

- Press the lock button on the key transmitter, or;
- Put the key in the driver's door lock, turn the key towards the rear of the vehicle and release.

Door Locks

The direction indicators will flash once, the security light on the top of the fascia will start flashing and, after 20 seconds, the alarm will be set.

If a door, the bonnet or the luggage compartment lid are open and an attempt is made to lock the vehicle with the key in the driver's door lock, the direction indicators will flash five times as a warning that the vehicle is not secure.

If a door is open and an attempt is made to lock the vehicle with the transmitter, the direction indicators will flash seven times as a warning that the vehicle is not secure.

If the bonnet or luggage compartment lid are open and an attempt is made to lock the vehicle with the transmitter, the direction indicators will flash five times indicating that the vehicle is not secure.

To Unlock the Vehicle and Disarm the Alarm System

Using a key transmitter

- Press the unlock button on the key transmitter.

Single stage unlocking - This unlocks all doors and the luggage compartment and turns on the interior lights.

Two stage unlocking - This only unlocks the driver's door and luggage compartment and turns on the interior lights. A second press is required to unlock all doors.

The direction indicators will flash twice as unlocking takes place. If a fault exists with the intrusion sensing system (where fitted), the direction indicators will flash five times.

Using a key

- Put the key in the driver's door lock, turn the key towards the front of the vehicle and release.

Single stage unlocking - This unlocks all doors and the luggage compartment and turns on the interior lights.

Two stage unlocking - This only unlocks the driver's door and luggage compartment and turns on the interior lights. A second turn of the key is required to unlock the remaining doors.

European countries and United Kingdom only: If the vehicle is unlocked with a key when it is armed, a ticking sound will be heard when the driver's door is opened. This is a warning to indicate that the vehicle alarm will activate after 15 seconds unless the security system is disarmed by either pressing the unlock button on the key transmitter or by inserting the key in the ignition switch.

Note:

- *If any door other than the driver's door is opened during this period, before the vehicle is disarmed, the alarm will sound.*
- *The security system is not disarmed when unlocking with the key as additional protection against vehicle theft.*

For all other countries: Unlocking the vehicle using a key in the driver's door disarms the alarm system.

Door Locks

Select single/two stage unlocking

The procedure for changing from single stage to two stage unlocking, or vice versa, is as follows:

- Press and hold the lock and unlock buttons on the key transmitter simultaneously for four seconds.

Note: A double flash of the external direction indicators will confirm the required selection. This feature is not available in the Japanese market.

Global Open/Close

Global closing



WARNING:

Ensure that all occupants are kept clear of the windows and sunroof (where fitted) aperture.

Key in the driver's door lock: Turn and hold in the lock position to close all the electrically operated windows and sunroof.

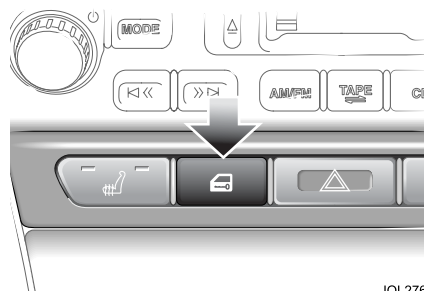
Key transmitter: Press and hold the lock button for longer than 2 seconds to lock the vehicle and to close all the windows and sunroof. Pressing the button again while global closing is taking place will stop all movement.

Global opening

Key in the driver's door lock: Turn and hold in the unlock position to open all the electrically operated windows and sunroof.

Key transmitter: Press and hold the unlock button for longer than 2 seconds to unlock the vehicle and to open all the windows and sunroof. Pressing the button again while global opening is taking place will stop all movement.

Centre console switch

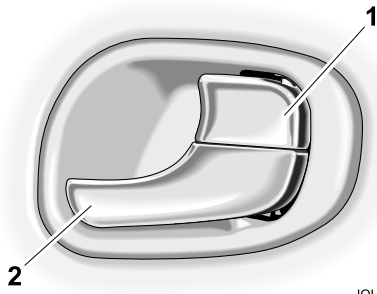


Press and hold the central locking button on the centre console to globally lock or unlock all doors, and to globally close or open all the windows and sunroof.

Note: The central locking button only operates with the ignition switch in position 'I' or 'II', or while the delayed accessory feature is active.

Door Locks

Door Internal Locking and Unlocking



JOL2764

Each internal door handle comprises a lock lever (1) and release handle (2).

To centrally lock all doors, press the lock lever on the driver's or front passenger's door.

To lock a rear door, press the lock lever.

To unlock a door, pull the lock lever.

To open a locked door, pull the release lever.

The driver's or front passenger's door lock lever will unlock all doors.

Double-locking (Where fitted)



WARNING:

When the vehicle is double-locked the doors cannot be opened, either from inside or outside the vehicle, except with the correct key or key transmitter. Breaking a window will not allow a thief access by opening a door. Therefore, double-locking should not be used when persons are inside the vehicle as they will not be able to vacate, or be released from the vehicle if an emergency arises.

Note: It will not be possible to double-lock the vehicle if any door is open.

With all doors closed, press the lock button on the key transmitter twice within three seconds to double-lock the vehicle and set the alarm. Alternatively, place the key in the driver's door lock, turn the key towards the front of the vehicle and then towards the rear within three seconds.

The exterior direction indicators will flash, once as locking takes place and a longer, second flash as double-locking takes place.

Drive-away Door Locking

This feature is an additional occupant safeguard which locks all the doors and the luggage compartment after a journey has been started.

For the feature to operate, the ignition switch must be in position 'II', the parkbrake released and the vehicle moving forward at a speed above 5 km/h (3 mph).

Door Locks

Note: For vehicles with automatic transmission, the gear selector lever must be moved out of the '**P**' or '**N**' position.

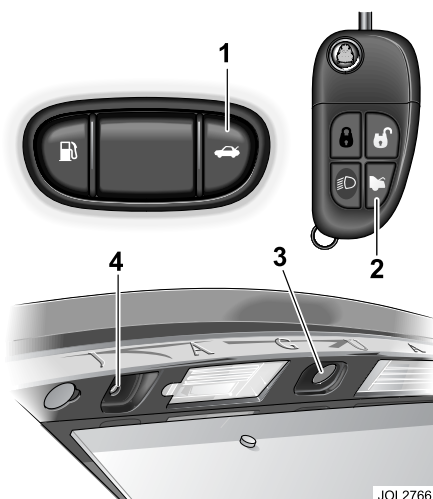
The doors will remain locked, even when the vehicle is stopped unless the driver or front passenger unlocks a door. A rear passenger can only unlock their own individual door.

If a door is opened during a journey, the doors will automatically lock again when the vehicle starts to move.

All vehicles have the drive-away door locking feature installed during manufacture. This feature can be disabled, or reinstated, by a Jaguar Dealer/Authorised Repairer, if required.

Luggage Compartment Locks

Lid Locking and Unlocking



If the vehicle alarm system is armed and the luggage compartment is opened using the key transmitter, the alarm will not sound. The system will be rearmed when the lid is closed, provided the vehicle has not been disarmed.

Neither the luggage compartment lid release switch on the fascia switchpack nor the lid release button will operate when the vehicle is armed.

To open the luggage compartment:

- Press the luggage compartment lid release switch (1) on the fascia switchpack, or;
- Press the luggage compartment button (2) on the key transmitter, or;
- With the vehicle unlocked, press the release button (3) on the compartment lid.

Note: An ignition key can be used to open the luggage compartment lid release lock (4), (turn clockwise to release), but opening with the key when the vehicle is armed will cause the alarm to sound. Use a transmitter, or place the key in the ignition, to turn the alarm off if it sounds as a result of opening with a key.

Alarm Systems

Alarms and Audible Signals

Note: In certain markets, legislation prohibits the use of audible confirmation signals. In such cases, the sound source has been removed from the system.

Audible Signals

Two horn chirps will sound if an attempt is made to lock the vehicle if a door is not fully closed. There will be no audible signal if the vehicle is locked when the bonnet or luggage compartment is not fully closed.

European countries and United Kingdom only

If the vehicle is unlocked with a key when it is armed, a ticking sound will be heard when the driver's door is opened. This is a warning to indicate that the vehicle alarm will activate after 15 seconds unless the security system is disarmed with either the key transmitter or by inserting the key in the ignition switch.

If the vehicle is unlocked with a key when it is armed and any door other than the driver's door is opened, the alarm will sound immediately.

Error signal

The direction indicators will flash five times whenever the key is out of the ignition and one of the following conditions is present:

- If any door is open when an attempt is made to lock the vehicle by inserting a key in the driver's door lock.

- If, after 15 seconds from opening the driver's door with a key (European countries and United Kingdom only), the key is not inserted into the ignition switch.
- The luggage compartment or the bonnet is not properly closed when an attempt is made to lock the vehicle either by inserting a key in the driver's door lock or by using the key transmitter.
- If there is an electrical failure within the intrusion sensing or inclination sensing systems (where fitted), and an attempt to 'disarm' the security system is made.

The direction indicators will flash seven times whenever the key is out of the ignition and one of the following conditions is present:

- If any door is open when an attempt is made to 'arm' the security system using the key transmitter.
- If either of the front doors is open when an attempt is made to lock the vehicle using the lock levers on the front two doors.

Full Alarm

Once armed, any of the following circumstances will create a full alarm state, sound the horns and flash the direction indicators:

- Opening a door, luggage compartment lid (except with transmitter) or bonnet.
- Intrusion sensors detect movement in the passenger area.

Alarm Systems

- Using a key in the ignition switch which is not programmed to the vehicle.
- If the inclination sensor (if fitted) is activated.
- Any attempt is made to remove the radio.

Security System

The security system has been designed for:

- Prevention of theft of the vehicle.
- Prevention of theft of items from the vehicle.
- Personal security.

The security system is integrated with the vehicle electronics and engine management systems making it far more difficult for a thief to penetrate and steal the vehicle.

Battery Reconnection

If the battery has been disconnected and is subsequently reconnected, the alarm system will re-arm as the battery is reconnected.

Note: Ensure that a key transmitter is available to disarm the system when reconnecting the battery. Either press the unlock button on the transmitter, or insert the key in the ignition switch.

Remote Headlight Convenience

By pressing the key-ring transmitter button with the dipped headlight symbol once, the headlights will come on for 25 seconds, unless the headlight button is pressed again, or if the key is inserted in the ignition switch and turned to position 'II'.

Battery-backed Sounder

(Where fitted)

In certain markets a separate, self-contained, battery-backed sounder is fitted. This device will sound the full alarm if the vehicle alarm is activated or if the vehicle battery or the sounder is disconnected when the security system is armed.

Intrusion Sensing

(Where fitted)

When the vehicle is armed and double-locked (where fitted), movement within the vehicle interior will activate the alarm. The luggage compartment can be unlocked, using the key transmitter button, without sounding the alarm. When the security system is disarmed the intrusion sensors are also disarmed.

Inclination (Tilt) Sensing Protection

(Where fitted)

This feature protects against unauthorised towing away or jacking up. When the vehicle is double-locked and armed, any tilting of the vehicle, such as jacking or lifting, will activate the alarm.

Note: If the vehicle is being transported by road, rail or sea, the vehicle should not be double-locked. This prevents the inclination system from being armed and sounding the alarm as the vehicle pitches and rolls.

When the security system is disarmed the inclination sensor is also disarmed.

Alarm Systems

Panic Alarm

(Where fitted)

When in or near the vehicle, the panic alarm can be set off to deter a possible offender. For this feature to operate, the key must not be in the ignition switch.

Pressing the headlight convenience/panic button on the key transmitter three times within three seconds will activate the 'Panic Alarm'.

The alarm is stopped by inserting the key in the ignition switch or by pressing the headlight convenience/panic button on the key transmitter three times within three seconds.

Garage Door Opener

Garage Door Opener Transceiver

(Where fitted)



JOL2373

The garage door opener transceiver is located in the roof console. This transceiver can be programmed to transmit the radio frequencies of up to three different transmitters which can be used to activate 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 also equally applies to the previously mentioned applications.

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

For further information, or for assistance, contact your Jaguar Dealer/Authorised Repairer, or the supplier by phone or via the internet. For details, see Information and Assistance on page 49.



WARNING:

- Do not use the transceiver with any garage door opener that lacks the safety stop and reverse feature as required by safety standards. A garage door opener which cannot detect an object, signalling the door to stop and reverse, does not meet current safety standards. Using a garage door opener without these features increases risk of serious injury or death.
- When programming the transceiver to a garage door opener or entry gate, make sure that people, vehicles and objects are out of the way to 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.

Garage Door Opener

Before Programming

Caution: When programming a garage door opener or entry gate 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.

It is recommended that 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.

To erase all programming

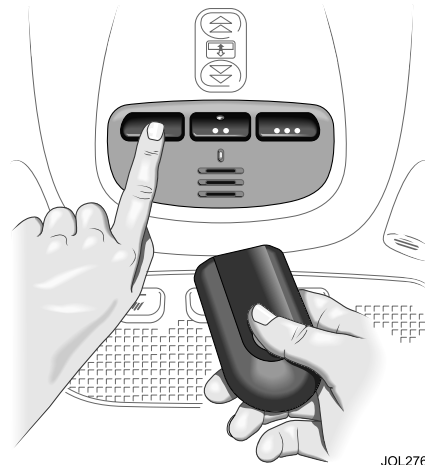
For first time programming, ensure that the engine is switched off:

1. Turn the ignition switch to position 'I'.
2. Press and hold the two outer buttons on the garage door opener in the overhead console. Keep the buttons pressed, the indicator light will illuminate. The indicator light is part of the middle button in the garage door opener in the overhead console.
3. Release the buttons when the light begins to flash (this will take approximately 20 seconds).

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.

Programming the vehicle



JOL2767

Ensuring that the engine is switched off:

1. Turn the ignition switch to position 'I'.
2. Hold the end of the original garage door opener hand-held transmitter approximately 50 to 150 mm (2 to 6 inches) away from the transceiver in the roof console, keeping the indicator light in view.
3. Using both hands, simultaneously press and hold both the desired garage door opener button on the overhead console and the hand-held transmitter button. Keep both buttons pressed. The light will flash slowly at first and then change to a fast flash. When the indicator light flashes rapidly, release both buttons. The rapid flashing light indicates successful programming.

Garage Door Opener

4. If, after 60 seconds, the indicator light 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 overhead console garage door opener button and observe the indicator light.
 - If the indicator light is solid/continuous, programming is complete and your device should activate when the garage door opener button is pressed and held for approximately 1 to 2 seconds and then released.
 - If the indicator light blinks rapidly for 2 seconds and then turns a solid/continuous light, proceed with the following programming instructions for 'rolling code' device equipment.
3. Return to the vehicle and firmly press and hold the programmed garage door opener button for 2 seconds and release.
4. Repeat the 'press/hold/release' sequence 3 times to complete the 'training' process.

The garage door opener in the overhead console should now activate the 'rolling code' device.

Reprogramming a single garage door opener button

To programme a device to previously trained 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 light begins to flash.
2. Without releasing the overhead console button, position the hand-held transmitter approximately 50 to 150 mm (2 to 6 inches) away from the transceiver in the overhead console, keeping the indicator light in view.
3. Carry out Step 3 of Programming the Vehicle on page 47.

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 overhead console button while you cycle your hand-held transmitter until the indicator light flashes rapidly.

Rolling code device equipment programming

Note: A second person may make the following steps quicker and easier as once the button has been pressed there are 30 seconds only 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.

Note: The name of the button/switch may vary between manufacturers.
2. Press and release the 'learn' or 'smart' button.

Garage Door Opener

Information and assistance

For information on the range of available compatible products or accessories, or for assistance, contact your Jaguar 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.*

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



WARNING:

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.

Garage Door Opener


Approvals for Radio Transceiver

Country	Approval Number
(A) (B) (CH) (D) (DK) (E) (EST) (F) (FIN) (FR) (GB) (GR) (H) (HR) (I) (IRL) (IS) (L) (LT) (LV) (MD) (N) (NL) (P) (RO) (S) (TR)	CE06820

Country	Approval Number
(AUS)	TA Exempt
(BG)	TA Exempt
(BR)	
(BRN)	
(BS)	
(CDN)	CAN: 2145 101 790A
(CL)	
(CY)	129/9520/2001
(CZ)	(CZ)
(DOM)	
(ET)	
(GE)	

Country	Approval Number
(HK)	
(IL)	
(J)	No number required
(JOR)	
(KSA)	
(KWT)	
(M)	WT/3176/2000
(MA)	
(MAL)	
(MEX)	
(NZ)	ENG 3/2/RFS29
(OM)	

Garage Door Opener

Country	Approval Number	Country	Approval Number
PA		SGP	
PL	TA Exempt	SK	
PY		SYR	
QA		T	
RA		UA	
RC		UAE	
RCH		USA	FCC: K8597 R315
RI		VN	
RL		VRC	
ROK		YU	N/A
RP		ZA	TA Exempt
RUS	TA Exempt		

L

Before Driving

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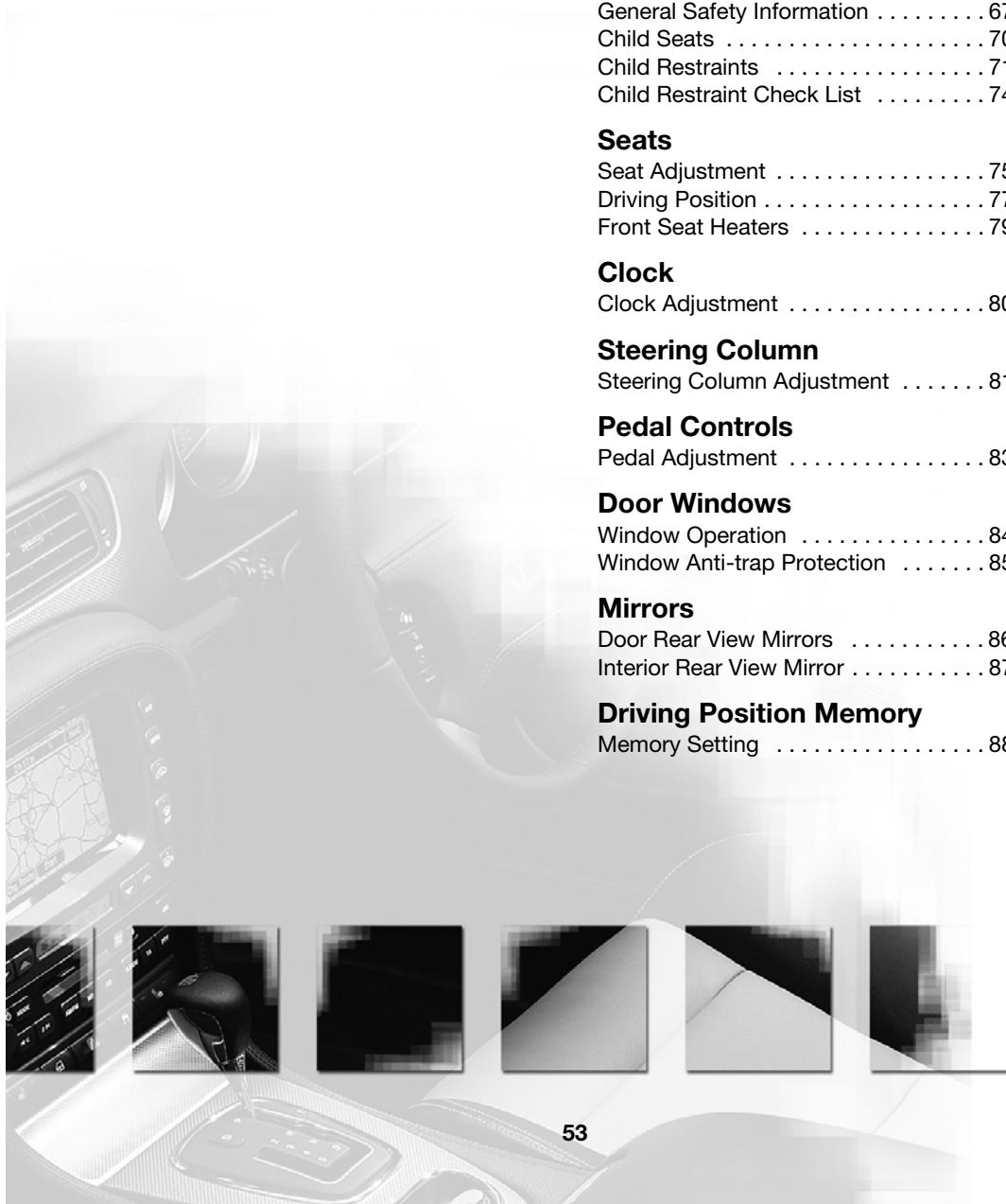
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Occupant Protection

Seat Belts

The use of front and rear seat belts is mandatory in most countries. Using seat belts saves lives. They should be worn by all occupants whenever the vehicle is in use, for maximum protection.

Lap/shoulder inertia reel seat belts are provided for both front occupants and three rear seat positions.

The inertia operating mechanism of the seat belts allows the wearers to move their upper bodies to reach various controls. The seat belts lock automatically with accelerated body movement or in the event of emergency braking.

The seat belt assemblies incorporate additional safety devices. All have belt pretensioners and the front belts also have force limiters. These devices provide increased protection in the event of a severe frontal impact.

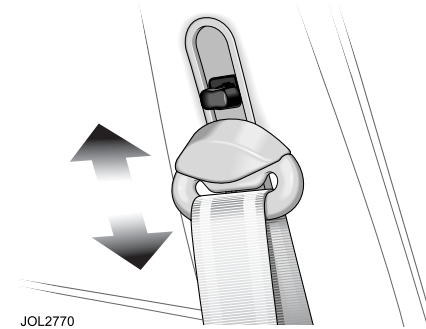
The pretensioners operate in conjunction with the airbags as part of the Advanced Restraints Technology System, refer to page 59

Beltminder

The beltreminder feature is a supplemental warning to the seat belt warning function, see page 98. This feature provides additional reminders to the driver that the driver's and/or passenger's seat belt is unbuckled by intermittently sounding a chime and illuminating the seat belt warning light in the instrument cluster.

Note: *Not all countries have the warning chime.*

Front belt height adjustment



To adjust the front seat belt heights, press the locking button and slide the anchorage so that the seat belt webbing passes over the shoulder without pulling against the neck. Release the button and check that the anchorage point is locked.

Always check the anchorage point after the seat has been adjusted to ensure that the belt is correctly positioned.

Occupant Protection

Seat belt fitting



WARNING:

Do not adjust the seat belt while driving.

Draw the tongue of the seat belt over the shoulder, across the chest and push it into the buckle unit slot. A positive 'click' indicates that it is safely locked.

The use of comfort clips or devices that would create slackness in the seat belt system are not advised.

Ensure that the webbing is midway between the neck and the edge of the shoulder. Correct tension is controlled by automatic retraction of the reel.

A warning light on the instrument panel is illuminated when the driver's seat belt is not fastened. (In some countries a warning signal sounds for six seconds.)

Note: *If the vehicle is parked on unlevel ground, the seat belt mechanism may lock. This is not a fault, allow the seat belt to retract a small amount before gently easing the belt from its attachment to unlock it.*

Inertia reel mechanism test

- 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 webbing to the limit of its travel. Check that the unreeling is free from snatches and snags and then allow the belt to FULLY retract.
- Partially unreel the webbing, then hold the tongue plate and give it a quick forward pull. The mechanism must lock automatically and prevent any further unreeling.

If a seat belt should fail any of these tests, contact your Jaguar Dealer/Authorised Repairer immediately.

Occupant Protection

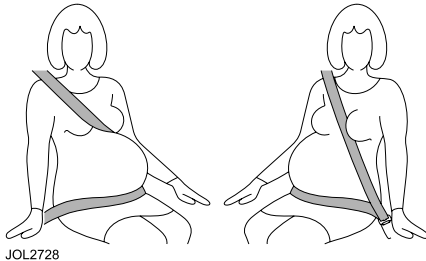


WARNING:

- Belts should not be worn with the straps twisted.
- Always ensure that the webbing is midway between the neck and the edge of the shoulder.
- Each seat belt assembly must only be used by one occupant; it is dangerous to put a seat belt around a child being carried on the occupant's lap.
- 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.
- 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.
- 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.
- Should the seat belt not retract and remain at its static length, consult your nearest Jaguar Dealer/ Authorised Repairer immediately.
- Replacement/renewal of seat belts should be carried out by Jaguar Dealers/Authorised Repairers only.

Occupant Protection

Pregnant women



Always wear seat belts without slack or twists, since slackness in a seat belt drastically reduces the effectiveness of the belt and the level of protection it can provide. For optimum protection, the seat belts should fit tightly around the body. Do not recline the front seats excessively, as the belts provide maximum protection when the seats are in the near upright position.



WARNING:

- **Pregnant women must wear a correctly positioned seat belt; it is safer for mother and unborn child.**
- **Never wear just the lap strap of a lap/shoulder diagonal seat belt and never sit on the lap strap using just the shoulder strap. Both of these actions are extremely dangerous and may increase your risk of serious injury.**

There are many ways that the seat belt can be misused for the sake of comfort. However, there is only one way of wearing it safely.

The lap strap should be fitted comfortably across the hips, low beneath the pregnant abdomen. The diagonal part of the seat belt should be placed between the breasts, and worn above and to the side of the pregnant abdomen.

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 reduce the effectiveness of the seat belt in preventing injury.

Occupant Protection

Advanced Restraints Technology System (ARTS)



WARNING:

The airbag is a supplementary restraint system that provides ADDITIONAL protection in a severe impact only - it does NOT replace the need to wear seat belts. For maximum safety protection in all crash situations, a seat belt must be worn.

Provided occupants are correctly seated, with seat belts worn, the airbags will provide additional protection to the chest and facial areas of the front seat occupants in the event of a vehicle receiving severe frontal impact, and also to the head and side of the body facing the impact if a severe side collision occurs.

Important information

To do their life-saving job, airbags must inflate rapidly and with considerable force. There is therefore a risk of death or serious injuries such as fractures, facial and eye injuries or internal injuries, particularly to occupants who are not properly restrained by seat belts or sitting correctly when the airbag deploys.

The risk of injury from a deploying airbag is greatest close to the trim covering the airbag.

The whole sequence of events from sensing the impact to full inflation of the bag takes place in a fraction of a second.

After airbag deployment, it is normal to notice a smoke-like, powdery residue or smell the burnt propellant. This may consist of cornstarch, talcum powder or sodium compounds that result from the combustion process that inflates the airbag.

Small amounts of other chemicals may be present which may irritate the skin and eyes, but none of the residue is toxic.

While the system is designed to help reduce serious injuries, it may also cause minor burns, abrasions, swelling or temporary hearing loss.



WARNING:

- **No objects whatsoever should be attached to the centre cover of the steering wheel, the passenger fascia panel, the sides of the front seats or the interior trim immediately above the door openings. Do not put anything on or over the airbag inflation area. Placing objects on or over the airbag inflation area may cause those objects to be propelled by the airbag into your face and torso causing serious injury.**
- **Occupants with disabilities that may require the vehicle to be modified must contact a Jaguar Dealer/Authorised Repairer before any modifications are made.**
- **Safety experts recommend a minimum distance of at least 254 mm (10 inches) between an occupant's chest and a front airbag.**

Occupant Protection

- **Children 12 years old and younger can be killed or seriously injured by the airbag. The rear seat is the safest place for children.**
- **Do not try to put an adult seat belt around two children.**
- **Several airbag system components get hot after inflation. Do not touch them after they have deployed.**
- **If an airbag is inflated, the airbag will not function again and must be renewed immediately. If a new airbag is not fitted, the unrepaired area will increase the risk of injury in a collision.**

Warning label

Airbag warning information is printed on the driver's and passenger's sunvisor (see illustration).

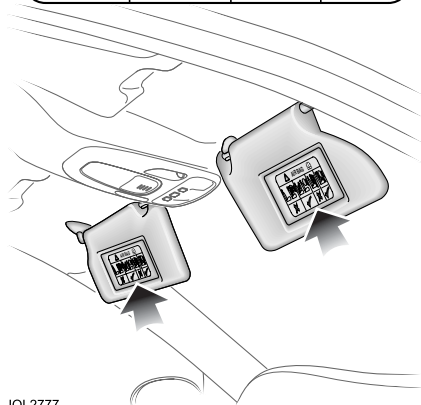
Airbag fault warning light



The airbag warning light in the driver's instrument cluster will be lit for approximately six seconds when the ignition is turned on.

If the light remains on or flashes, it indicates a fault within the electrical circuits. Report the fault to a Jaguar Dealer/Authorised Repairer immediately. It is safe to drive the vehicle; however, in an accident the airbags may not operate.

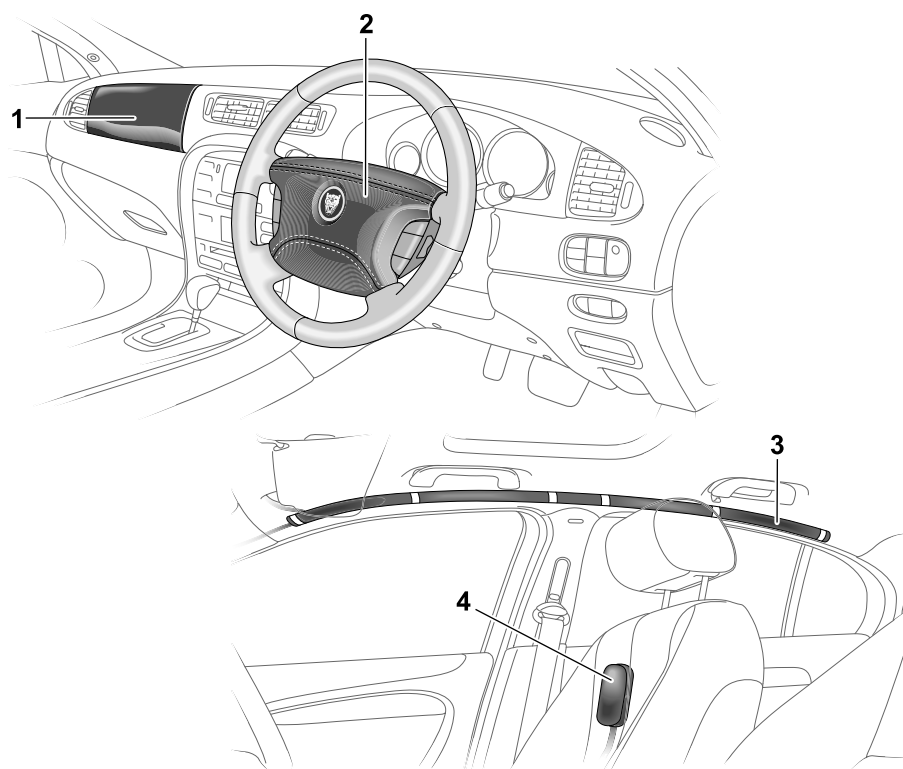
Airbag warning light information is shown on page 99.



JOL2777

Occupant Protection

Air bag deployment



JOL3259

The airbag supplementary restraint system incorporates front, side thorax and side head airbags for the driver and front passenger and side head bags for rear seat passengers. These are indicated by the word 'airbag' on the trim. They are used in conjunction with the seat belts to help protect occupants from upper body (thorax) and head injuries.

1. The front passenger airbag is located in the fascia panel immediately in front of the passenger seat.

2. The driver front airbag is located in the centre of the steering wheel.
3. Curtain airbags are fitted on each side, above the front and rear doors.
4. Thorax side airbags are fitted within the outboard bolsters of both front seats, and are identified by labels.

The airbags and seat belt pretensioners are electrically controlled by an advanced restraints technology system.

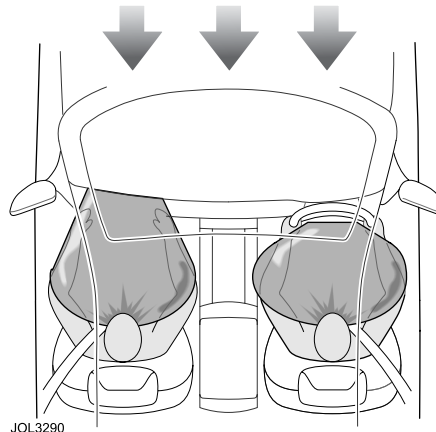
Occupant Protection

Both front airbags use a dual inflation technology which means, if activated, the bag(s) will deploy at either a normal or reduced level of inflation, depending on crash severity. Lower inflation level is also selected if the restraint system senses that the driver is too close to the steering wheel.

Various sensors determine the direction and severity of an impact and the presence and position of front seat occupants, see page 65. The system analyses this information then deploys only the appropriate airbags, e.g. the side airbags where the impact is on that side only.

Airbags will not deploy at very low speeds or in rear impacts.

Front protection



With a front impact of sufficient force, the restraints system will trigger the front airbag(s) and seat belt pretensioners, which immediately tighten the seat belts.

For front occupants, the seat belt then slackens with increasing chest load, allowing the head and chest to more gradually come into contact with the inflated airbag.

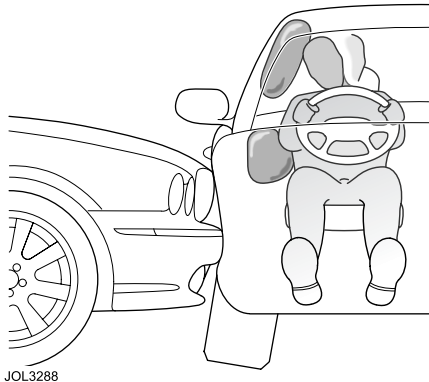
The airbag absorbs the remaining energy of the impact and then deflates rapidly via vent holes.

Front airbags are designed to inflate in frontal and near frontal collisions, not low speed impacts, roll-over, side-impact or rear-impact.

Where the airbags are not deployed, protection is provided by the seat belts.

Occupant Protection

Side protection



WARNING:

To ensure that the side airbags are fully effective:

DO NOT sit too close to, or lean against the door trim. The side airbag could injure you as it deploys from the side of the seat.

DO NOT lean out of the window aperture.

Only use JAGUAR APPROVED accessories (e.g. seat covers).

Due to the function of the CURTAIN AIRBAG deployment, CONSULT your Jaguar Dealer/Authorised Repairer prior to installing any ACCESSORIES in the upper environment/pillar trim area (e.g. HANDS-FREE TELEPHONE KITS).

The side protection system utilizes four airbags: Two mounted in the front seats, and two curtain airbags located just above the front and rear door openings under the headlining trim.

When the seat mounted thorax airbag inflates upon a vehicle side impact, it breaks through the seat bolster stitching, protecting the side of the rib cage of the driver or front seat passenger.

When the curtain airbag inflates upon a vehicle side impact, it breaks through the headlining and deploys downwards, giving head protection to the front and rear seat occupants on the impact side.

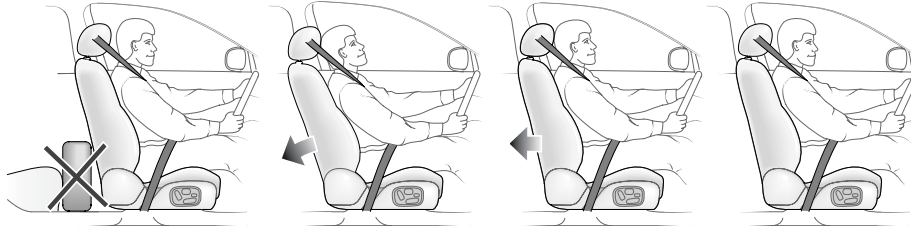
The curtain airbag on the front passenger side is always deployed in a side impact even if the front passenger seat airbags are de-activated. This is to maintain protection for a rear occupant.

Seat mounted thorax and curtain airbags are designed to inflate in a side impact collision, not rollover, rear-impact, frontal or near-frontal collisions, unless the collision causes sufficient lateral deceleration.

The airbags, in combination with the seat belts, can help reduce the risk of severe injuries in the event of a significant side impact collision.

Occupant Protection

Rear impact protection



JOL3176

Both front seats have active, energy absorbent backrests which, with correctly positioned headrests, reduce the risk of neck and spinal injury ('whiplash') in the event of a rear impact.

When activated, the seat backrests automatically move back and recline, altering the occupants' posture and reducing relative motion between the body and head.

The degree of backrest movement in a rear collision depends on the angle, speed and nature of the colliding vehicle.

After activation, the whiplash protection mechanism will not work again and the seat must be serviced by a Jaguar Dealer/Authorised Repairer to restore the protective function.

Note: The amount of backrest movement depends on the severity of the impact and for a minor collision there may be no apparent change to the seat even where the protective system has been activated. After any rear collision, therefore, the seat must always be inspected by a Jaguar Dealer/Authorised Rdealer.

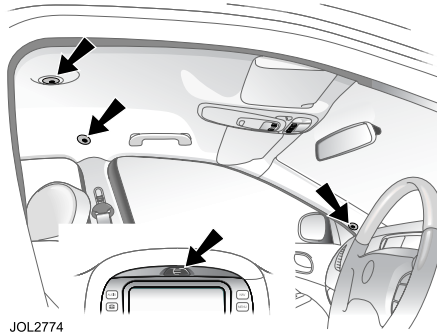


WARNING:

- For optimum protection, the driver and passenger should sit in the centre of the seat with the head as close as possible to the head restraint.
- Do not wedge objects (e.g. luggage) between the front seat backrest and the rear seat cushion.
- After a rear collision, the front seats must be inspected by a Jaguar Dealer/Authorised Repairer even where there is no apparent damage or change to the seat.
- Do not attempt to service or tamper with the seat recliner mechanism.
- Adjust the head restraint so that it is just behind your head and never behind your neck.

Occupant Protection

Occupancy sensing



JOL2774

The front passenger seat is monitored by ultra-sonic sensors, see above, and a seat weight sensor to determine the presence, weight and position of the front passenger. In certain conditions, e.g. where no passenger is present, the appropriate airbags will be de-activated. In a collision these airbags would not be deployed.



WARNING:

It is important that the passenger position sensors are not obscured in any way which could affect airbag deployment, e.g. fitting non-approved accessories.

The occupancy sensor operates as follows:

Passenger occupancy status	Passenger airbag status	Indicator light active
Completely empty	Deactivated	No*
Low weight occupant/object	Deactivated	Yes
Heavy occupant/object	Activated	No
Passenger head too close to airbag door	Deactivated	Yes

*It is possible to receive an intermittent indicator light with an empty seat condition. This is part of the system's adaptive behaviour, and does not affect the status of the passenger airbag. However, if the indicator light becomes permanently illuminated when the seat is definitely empty and the seat belt is unbuckled, then contact your nearest Jaguar Dealer/Authorised Repairer immediately.

- If the seat is empty and the seat belt unbuckled, the front airbag will not be activated and the AIRBAG indicator light will not be illuminated.
- If the seat is occupied by, for example, a small child or object with the seat belt buckled, the front airbag will not be activated and the indicator light will be illuminated.

Occupant Protection

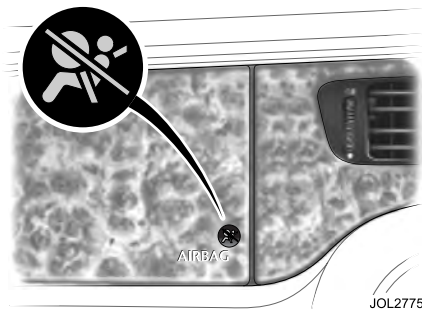
- If the seat is occupied by a larger child or adult, the front airbag will be activated and the AIRBAG indicator light will not be illuminated.
- If the passenger adopts a posture (e.g. leaning very far forward) which could cause injury from an inflating airbag, the front passenger airbag will not be activated and the AIRBAG indicator light will be illuminated.

Note: The occupancy sensing system is designed to confirm that a front passenger is properly seated as recommended:

- Always sit centrally in the seat, remaining in contact with the seat back which for comfort should be rearwards of the vertical position.
- Adjust the seat to be as far back from the fascia as is practical.
- Always wear seat belts.

The seat adjustment controls are described on page 75.

Airbag de-activation indicator light



The AIRBAG indicator light on the passenger fascia is associated with the deployment conditions for front seat passenger airbags only.

Whenever the AIRBAG indicator light on the passenger fascia is illuminated, the front passenger airbag will not be deployed in the event of an impact. Where the airbags are not deployed, protection is provided by the seat belts.

Airbag disposal



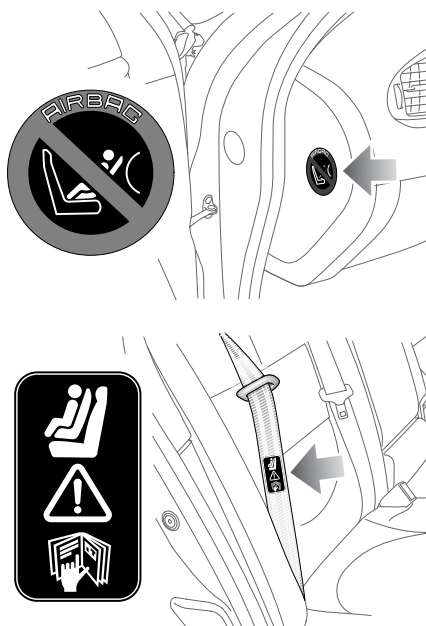
WARNING:

Do not attempt to service, repair or modify the airbag system or its fuses. All work on the airbag system, including renewal after deployment and renewal at the end of its service life, must be carried out by an authorised Jaguar Dealer/Authorised Repairer.

In the event of the vehicle being dismantled, airbag module removal and disposal **MUST** be made by a qualified person.

Child Safety

General Safety Information



JOL2786

Jaguar Cars Limited strongly recommends that at all times children should be carried in the rear seats.



WARNING:

- **Children must be restrained by a child safety restraint that is suitable for their weight and size.**
- **Extreme hazard! Do not use a rearward child restraint on a seat protected by an airbag in front of it!**
- **DO NOT install a rearward-facing child seat in the front passenger seat position since deployment of the passenger fascia airbag could cause death or serious injury to the child.**

This is emphasised by the label displayed on the end of the fascia on the front passenger side, as shown in the illustration.

If, however, you have no alternative but to place a child in the front passenger seat, use only a forward-facing child seat with the passenger seat set fully rearward and in its lowest position.

- **Always follow the fitting instructions supplied with the appropriate child restraint system. It is important to read and understand all the information contained in this handbook relating to child safety before carrying a child in your vehicle.**

If you are unsure about any aspect of this information, contact your Jaguar Dealer/Authorised Repairer.

In many countries legislation governs how and where children should be carried when travelling in a vehicle.

It is the responsibility of the driver to comply with all regulations in force in the country where the vehicle is being used.

Holding a baby or child in a person's arms is not a substitute for a child restraint system. Do not use a seat belt to restrain more than one person.

In an accident, a baby or child held in a person's arms can be crushed between the vehicle's interior and a restrained person.

The child can also be injured by hitting the interior or by being thrown from the vehicle during a sudden manoeuvre or impact.

Child Safety

Injury can also be caused if the baby or child is allowed to ride on the seat unrestrained. Other occupants should also be properly restrained to help reduce the chance of injuring the child.

Do not allow children to stand in the space between the front seats, or on the passenger seats.



WARNING:

- **Do not put an adult seat belt around two children.**

Summary of the law

In all countries there are regulations governing the use of restraint systems for children and babies. Infants and children must be seated in an approved safety device, which is suitable for the weight and size of the child. A child restraint must meet the regulations enforced in the country where it is used and the approval number and the weight category have to be clearly labelled on the seat. Generally, the following law applies:

- Children under three years of age must be secured in an appropriate child restraint.
- Children aged 3 to 11 years and less than approx. 1.5 metres (approx. 5 ft) in height should be secured in an appropriate child restraint if available. Otherwise, the adult seat belt must be used.
- For children age 12 or 13 years, or a younger child approx. 1.5 metres (approx. 5 ft) or more in height, the adult seat belt must be used.

- In all three cases above, it is the responsibility of the driver to ensure that the safety of children travelling with them is adequately provided for.
- From 14 years of age, all passengers should use the adult seat belts provided and it is their own responsibility to do so.

Caution: Failure to comply with the law could result in prosecution and could affect insurance cover. Remember the driver has responsibility for other passengers under 14 years and the careful stowage of luggage and loose items.

Child restraint systems

Look for the following when selecting a child restraint system:

- It should have a label certifying that it meets the applicable Regulations.
- Carefully read the instructions supplied with the restraint. Be sure you understand them and can install and use the device properly and safely in the vehicle.
- Ensure that the child restraint system is appropriate for the child's weight and development refer to page 70.

Infant safety

Babies and small children who cannot sit up by themselves should be carried in an approved rear facing infant carrier, which should always be installed in a rear seating position.

Child Safety

Child safety seating and positioning

Suitability of each passenger seat position for the carriage of children up to 12 years of age or 1.5 m (approx. 5 ft) tall and the installation of child restraint systems.

Mass Group (with approximate age) as indicated on child restraint	Vehicle Seating Position		
	Front Passenger*	Rear Outboard	Rear Centre
0 = Up to 10 kg (22 lb) (birth to 10 months)	X	U	U
0+ = Up to 13 kg (28 lb) (birth to 18 months)	X	U	U
I = 9 to 18 kg (20 – 40 lb) (9 months to 5 years)	UF	U & L	U
II = 15 to 25 kg (33 – 55 lb) (4 to 7 years)	U	U	U
III = 22 to 36 kg (48 – 80 lb) (6 to 12 years)	U	U	U
Key: U Suitable for 'Universal' category restraints approved for use in this mass group. UF Suitable for forward-facing 'Universal' category restraints approved for use in this mass group. L Suitable for particular 'vehicle specific' child restraint given below. These restraints may be of the 'specific-vehicle', 'restricted' or 'semi-universal' categories. X Seat position not suitable for child restraint in this mass group. Note: * When installing child restraints, Jaguar recommends that the front passenger seat be positioned fully rearward with the cushion height adjustment set to front fully down and rear fully up. Also the backrest must be set as far forward as possible, or adapted to the child restraint, as required. The seat belt upper adjustable anchorage should also be set to its lowest position. The safest place to transport children is the rear seat.			
Type L Child Restraint = Britax Roemer 'Duo Plus' ISOFIX Group 1 restraint – 'specific-vehicle' restraint approved by Jaguar Cars Limited.			

Child Safety

Child Seats

Choosing a suitable child seat

Before you buy a child seat, it is important to note that your child's weight, rather than age, determines the type of seat that is required.

Child safety seats are divided into five categories, by the weight range for which they are suitable. Refer to page 69.

Jaguar recommends that a rear-facing seat with a harness is used for as long as your infant's development allows.

Do not use a forward-facing seat until your child 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.

It is also important to consider how you plan to use the child seat. For longer journeys, a reclining seat may offer added comfort and support for a sleeping child, while a lightweight design may be easier to lift in and out of the vehicle.

It is also worth noting that some children are more suited to a harness-style seat than a booster seat during their toddler years.

We strongly advise that you do not buy or use a second-hand child seat. The seat may have been used inappropriately, or involved in an accident. In such circumstances, the seat may not protect your child.

Because child seats vary in shape, certain designs may be more stable when mounted on the outer rear seating positions, rather than in the centre.

Always check that the child seat can be mounted securely in the required position: if in doubt, speak to your Jaguar Dealer/Authorised Repairer.

Fitting the child seat

Always use and keep the manufacturer's fitting instructions.

The following checks should always be carried out:

- Fit the child seat in the correct position and secure with the seat belt in accordance with the manufacturer's instructions.
- Regularly check and refit the child seat to ensure there is no slack in the installation.
- Make sure the child seat is fitted firmly to the car seat. There should not be excessive forward or sideways movement.
- The seat belt must not be twisted and the buckle must not rest on the child seat frame as it may snap open in an accident.
- Never modify the seat or install it differently to the instructions.

Always secure an unoccupied child seat safely. In an accident, an unsecured child seat may pose a risk to the vehicle's occupants.

Booster seats

If a booster seat is used, position the lap section of the adult seat belt over the child's pelvis. The diagonal seat belt should rest on the child's shoulder, not the neck.

Child Safety

Child Restraints

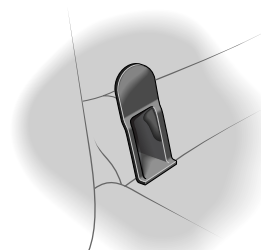
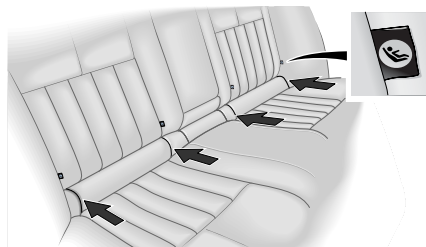
Safe use of child restraints

Ensure there is no slack in the webbing and the restraint fits the child snugly across the rib cage and hips. These are the parts of the body most able to take the force of an impact.

- Ensure the path and position of an integral harness across the shoulders is appropriate for your child's development – consult the manufacturer's instructions.
- The lap strap should pass across the top of the child's thighs, bearing on the pelvis, not the abdominal area.
- Adjust the harness every time, so that one or two fingers only can be inserted between the child and harness. Different clothing on a child can make a difference to the correct fitting of the harness.
- Make sure the harness webbing is not twisted.
- Never modify the seat harness or buckles, as this may affect the quick release mechanism.
- Always secure your child correctly, even for the shortest journey.
- Follow the seat manufacturer's instructions for harness adjustments.

Make sure the child seat is securely fitted, and follow the check list on page 74.

ISOFIX child restraint system



JOL2787

Your vehicle is fitted with a set of ISOFIX brackets that allow the ISOFIX child seat to be secured directly and easily to the vehicle body without the use of adult seat belts.

Child Safety

Many injuries to children in accidents are caused by the incorrect fitting and tensioning of the adult seat belts, which are normally used to secure child seats. The ISOFIX system reduces the likelihood of incorrect fitting and is also quicker and simpler to use.

The ISOFIX system uses two anchorage loops and a top tether bracket fixed to the vehicle body. The ISOFIX child seat has two retractable lower catches that lock onto the anchorage loops and a strap that clips onto the top tether bracket. The child seat has a quick release mechanism to allow it to be removed easily.

The anchorage loops are accessible through two trimmed apertures at the back of the rear seat cushion. Their location is highlighted by the small tag labels with a child seat graphic. The anchorage loops are located approximately 60 mm (2.5 inches) below each label. Pull back the side panel of the trim as indicated, see illustration on page 71, to reveal the aperture and the anchorage loops.

The seat is a forward-facing Group 1 seat, approved to ECE R44.03 and suitable for children weighing between 9 – 18 kg (20 – 40 lb).

To ensure that the ISOFIX child seat is installed safely, read all the information provided in this Section.

Fitting the ISOFIX plastic guides

Open up the trimmed aperture to expose an anchorage loop (see previous page). Locate the cut-outs at the rear of the guide onto the anchorage loop and push the guide fully in until it clips in place on the anchorage loop.

Fit the second guide.

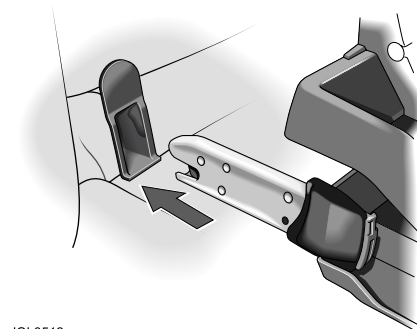
If correctly fitted, the guides will normally remain in place when the child seat is removed.

Pull out the guides to remove.

The plastic guides make it easier to fit the child seat using the ISOFIX anchors and avoid damage to the seat cover. The plastic guides must be removed before folding down the seat backs.

Always ensure the child seat anchorage legs and the vehicle anchorage loops are kept clean and free of dirt.

Installing the ISOFIX seat



JOL3512

Caution: Always follow the manufacturer's instructions supplied with the ISOFIX child seat. The following is to be considered only as a guide.

ISOFIX seats can only be installed in the rear outboard seating positions. If necessary, remove the headrest.

Fit the seat as follows:

1. Push the adult seat belt buckles into their stowage recesses, to ensure they do not interfere with the fitment of the child seat.

Child Safety

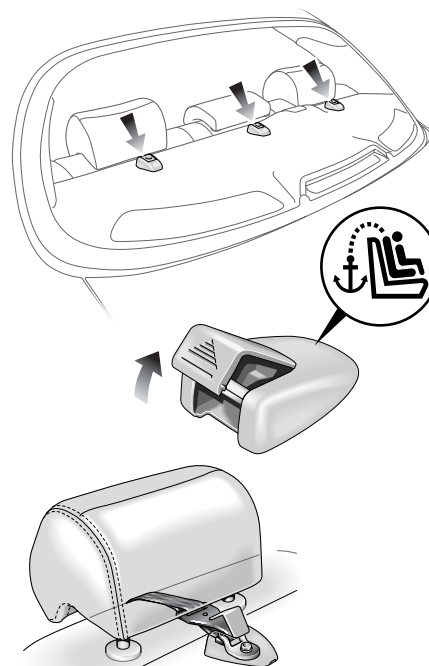
2. Make sure there is nothing obstructing the seat mounting mechanism at the anchorage points.
3. Release the lever on the rear of the seat and fully extend the two attachment legs on the child seat. Ensure the hook at the end of each leg is open.
4. Position the attachment legs just in front of the trimmed apertures for the ISOFIX anchorage loops (see previous diagram). Push the anchorage leg through the trimmed aperture to engage with the vehicle's anchorage loop. There should be an audible 'click'.
5. Repeat Step 4 for the seat's second anchorage leg.
6. Using firm and even pressure on both sides, push the child seat rearwards until it is secured firmly against the seat back. Make sure you do NOT trap the top tether strap behind the child seat.
7. Attach the top tether, refer to the following section.
8. As a final check, firmly pull both sides of the seat to confirm that it is correctly locked in position.



WARNING:

The top tether must always be used to secure the ISOFIX child seat. Refer to the following Section.

Child restraint top tether anchorages and brackets



JOL2789

The top of the child seat is connected by a short strap to the top tether bracket to prevent the seat from rotating about the lower anchorages. The top tether brackets are positioned on the rear parcel shelf, under access covers, at the centre-line of each rear seating position.

Pass the top tether strap under the vehicle rear head restraint to connect to the top tether bracket on the parcel shelf. Adjust the length of the top tether strap to hold the top of the child seat against the vehicle seat back.

Make sure the child seat is securely fitted, and follow the check list on page 74.

Child Safety



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 or for attaching other items or equipment to the vehicle.

Child Restraint Check List

General check list

Follow the check list each time your child travels in the vehicle:

- Carefully follow the instructions provided by the manufacturer of the restraint system.
- Make sure your child falls into the correct weight range for the seat.
- Always use the appropriate child restraints and adjust harnesses for every child, every trip.
- Avoid dressing your child in bulky clothing and do not place any objects between the child and the restraint system.
- Regularly check the fit of your child seat and replace seats or harnesses that show signs of wear.
- No child seat is completely child-proof. Encourage your child not to play with the buckle or harness.
- Never leave a child unsupervised in the vehicle.
- Activate the rear door child safety locks, refer to page 37.
- Ensure your child does not exit the vehicle from the side where there is traffic.

- Set your child a good example – always wear your seat belt.
- Ensure that you have removed all slack from the adult seat belt (non-ISOFIX restraint only).

Additional checks for ISOFIX child restraints



- **Always attach the top tether when installing the ISOFIX seat.**
- Always give the ISOFIX seat a final pull to ensure the lower anchors are secure, even if the green buttons indicate that the seat connectors are latched.

Seats

Seat Adjustment



WARNING:

- Do not make adjustments when the vehicle is moving.
- Front passengers must not ride with the seat fully reclined.

Front seat adjustment

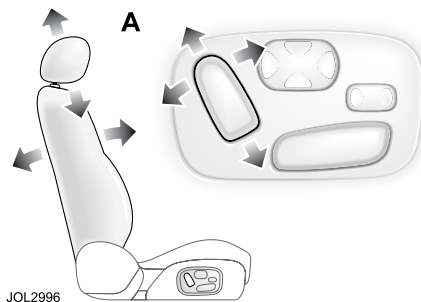
The front seats are adjusted electrically by switches on the side of the seat cushion. Adjustment can be made with or without the ignition key inserted.

The number of seat adjustments varies with the vehicle specification but all options are described in this section. If a seat movement is not specified for your vehicle, the control switch will either not be fitted or will not include that seat function (switch movement will be inhibited).

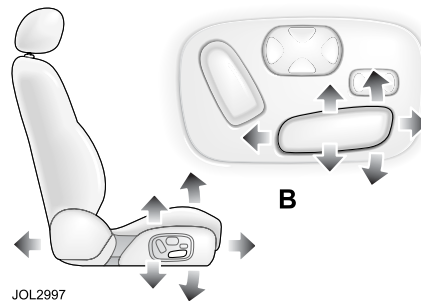
Seat adjustments for two people may be stored and recalled by the driver position memory system. Refer to Memory Setting on page 88.

The full range of seat adjustments are:

Backrest angle (recline) and, if specified, headrest height (A):

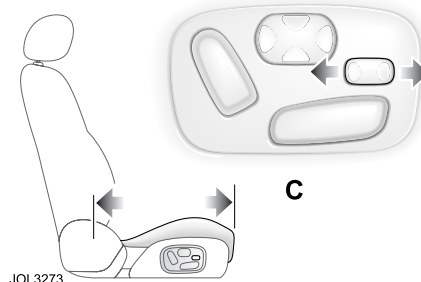


Seat fore and aft position and, if specified, cushion height and front tilt (B):



- Move the switch forward or rearward to change the seat fore and aft position.
- Move the centre or rear of the switch up or down to adjust cushion height.
- Move the front of the switch up or down to tilt the front of the cushion.

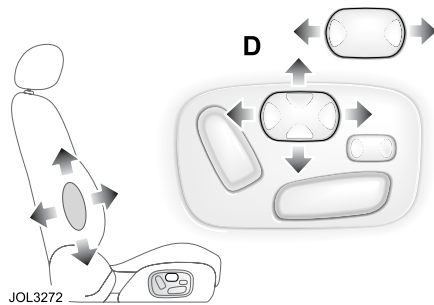
If specified, varies the cushion length (C):



Moving the control will change the distance between the front of the cushion and the backrest.

Seats

Lumbar (D):

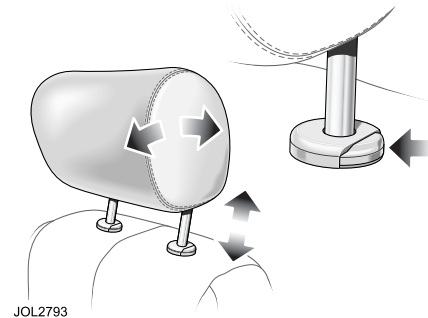


JOL3272

If specified, provides adjustable lumbar support in the lower backrest. Either of two options may be fitted:

- **2-way or 4-way switch (Where fitted):** Press the front or back of the switch to increase/decrease lumbar support.
- **4-way switch only (Where fitted):** Press the top or bottom of the switch to adjust lumbar support upwards or downwards.

Manual head restraint adjustment



JOL2793



WARNING:

Adjust the head restraint so that it is just behind your head and never behind your neck.

All headrests may be removed e.g. to fit a large child seat. Hold the escutcheon button down and pull out the headrest.

Where electrically adjusted headrests, refer to Seat Adjustment on page 75, are not fitted, the front head restraints are manually adjustable:

- **To lower:** Press the button in the escutcheon and push the headrest into the seat back to the required height.
- **To raise:** Pull the headrest upwards.
- Swivel the head restraint forwards or backwards until it is comfortably positioned behind your head.

Rear head restraints – All rear head restraints are adjustable for height only.

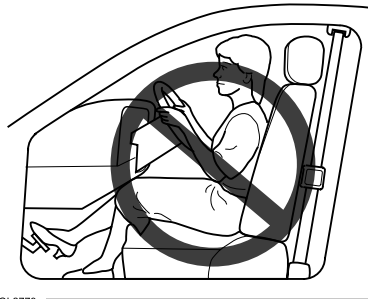
Seats

Driving Position



WARNING:

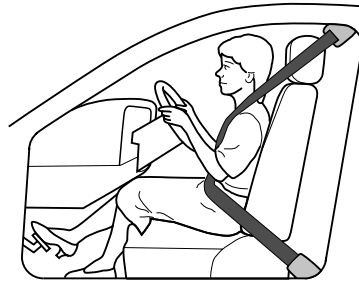
- Driver and front seat passenger should always move their seats as far rearwards as is practical.
- Adjust the head restraint so that it is just behind your head and never behind your neck.



JOL2779

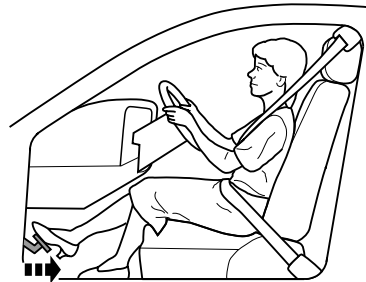
Since the risk zone at the time of deployment is the first 55 mm - 75 mm (2 to 3 inches) from the air bag cover, sitting back 254 mm (10 inches) provides a clear margin of safety. Very few drivers are unable to achieve and maintain that safety gap.

The vast majority of drivers who do not now sit that far back can change their position and achieve that distance.



JOL2780

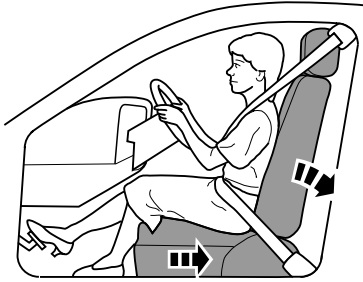
- Use seat belts.



JOL2781

- If adjustable pedals are fitted, move them towards the seat.

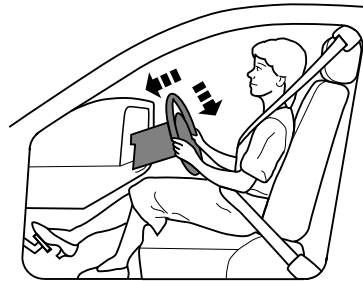
Seats



JOL2782

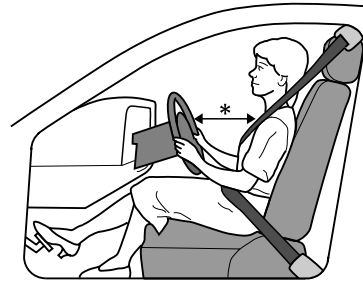
- Move your seat back as far as you can while still comfortably reaching the pedals.

Recline the back of your seat one or two notches from the upright position. If reclining the back of your seat makes it hard to see the road, raise the seat.



JOL2783

- Tilt the steering wheel/column downwards so as to point the air bag at your chest instead of your head and neck. Adjust the steering wheel/column fore/aft so that it extends towards the driver as little as possible, ensuring that the air bag has plenty of room to deploy.



JOL2784

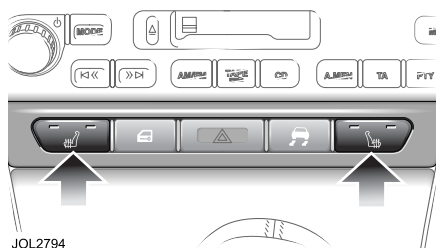
- Sit in the centre of the seat with the head as close to the head restraint as possible.

*Ideally, drivers should sit with at least 254 mm (10 inches) between the centre of their breastbone and the cover of the steering wheel air bag.

Note: Seat, steering wheel and pedal adjustment controls are described on pages 75, 81 and 83 respectively.

Seats

Front Seat Heaters



Each seat has a heater switch on the centre console. With the ignition switch in position 'II', press a switch to select the heat setting:

The optional heated front seats incorporate heaters in the backrest and cushions and have two heat settings.

- A first press selects the higher temperature setting, indicated by two red lights on the switch.
- A second press selects the lower temperature setting, indicated by one red light.
- A third press turns the seat heater off; both indicator lights off.

The heater will automatically switch OFF after ten minutes or if the ignition is turned OFF or a fault is detected.

The heater will maintain a pre-set temperature while it is switched on.

Storage of the vehicle in a heated garage, body heat or warm ambient temperatures may prevent operation of the seat heater.

Clock

Clock Adjustment

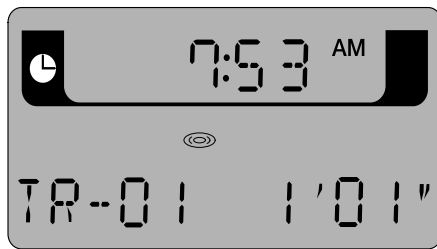
The position of the digital clock depends on the equipment fitted to the vehicle.

If a touch-screen is fitted to the vehicle, the clock will be incorporated in the touch-screen display.

If the vehicle is not equipped with a touch-screen, the clock is included in the audio display.

- For more information concerning the operation of the audio system controls, refer to the audio systems handbook.
- For more information concerning the operation of the touch-screen, refer to the touch-screen display handbook.

Non-touch-screen



JOL2486

If the vehicle is not fitted with a touch-screen, adjust the clock using the audio system controls as follows:

1. Press and hold **MODE** until **TA VOLUME** is displayed.
2. Repeatedly press **MODE** until **CLOCK SET** is displayed.
3. To select 12 or 24 hour format, press the seek up/down keys.
4. Press **MODE** to continue.

5. If 12 hour is selected, use # to denote AM or PM.
6. Use the key pad to enter the time in four digit format.
7. To exit, press and hold **MODE** until the display reverts to audio mode.

Touch-screen



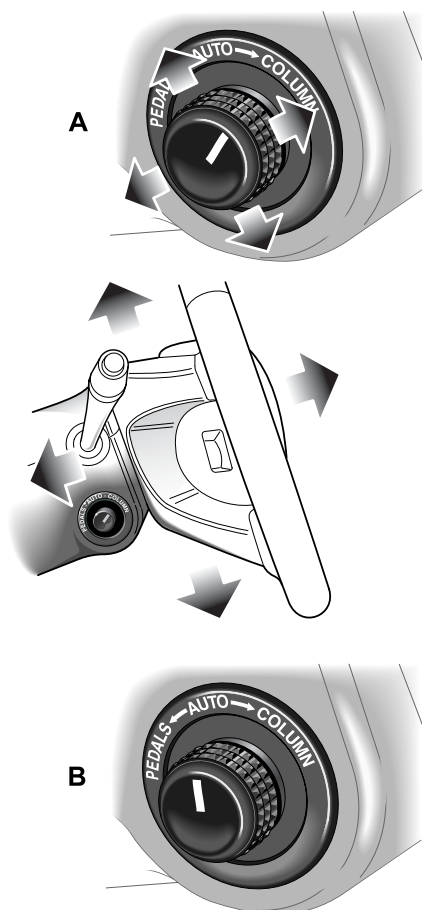
JOL2487

If the vehicle is fitted with a touch-screen, the clock is adjusted as follows:

1. Press the **MENU** button on the touch-screen control panel. The system menu screen will be displayed.
2. Touch the **System Setup** button on the **MENU** screen.
3. Touch the **Set Clock** button on the **SYSTEM SETUP** screen.
4. Clock adjustment is made by touching the hour or minute, up or down arrow buttons.
5. Touch the **12/24** button to select twelve or twenty-four hour display.
6. Confirm your setting by touching **Set**.

Steering Column

Steering Column Adjustment



JOL2705



WARNING:
Do not adjust the steering column whilst driving.

Caution: Do not use steering wheel mounted security devices since movement of the steering wheel in entry/exit mode could result in damage to the vehicle (e.g. the windscreen) or possible injury to the occupant.

The steering column can be adjusted for tilt and reach by operating the rotary/joystick control switch (A) on the left side of the steering column.

1. Turn the switch to the 'COLUMN' or 'AUTO' position.
2. Move the switch forwards or backwards to adjust reach.
3. Move the switch up or down to adjust tilt.

Two column positions may be stored and recalled by the driver position memory system, refer to Memory Setting on page 88.

Entry/exit mode

Entry/exit mode provides automatic movement of the steering column and driver's seat to allow easier entry to or exit from the vehicle.

Entry/exit mode is selected by setting the steering column adjustment switch to the 'AUTO' position (B).

Exit - If the ignition key is in position '0' or position 'I' and the driver's door is opened or if the ignition key is removed, the steering column will move to the uppermost tilt position (unless already in that position) and the seat will move slightly rearwards and/or downwards, depending on its current position.

Steering Column

Entry - When the key is next inserted in the ignition switch and the door is closed, the steering column and seat will return to their previous positions. If, however, the memorised driver position has been changed (using the door MEMORY switch or another key transmitter), the steering wheel and seat will move to the new position.

Notes on entry/exit mode operation

- If the adjustment switch is moved away from '**AUTO**' whilst the steering column is tilted away, the steering column will move back to its memorised position when the key is next inserted in the ignition and entry/exit mode is then cancelled.
- If the adjustment switch is moved during entry/exit operation, steering column movement will stop.

Pedal Controls

Pedal Adjustment

(Where fitted)



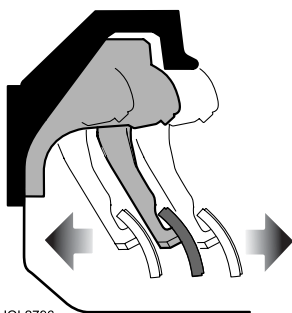
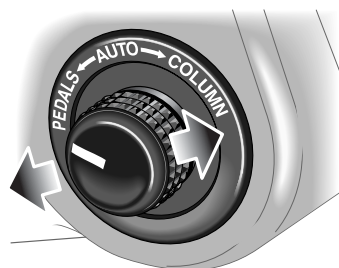
WARNING:

Do not adjust the pedals whilst driving.

This optional facility enables the pedals to be moved towards or away from the driver's seat, providing extra adjustment for the driving position. All pedals move together (no individual pedal adjustment) and are electrically controlled from the combined steering column/pedal adjust switch on the left side of the steering column housing. The adjustment can be made with or without the ignition key inserted.

To adjust the position of the pedals, turn the switch to '**PEDALS**', then push it forwards or rearwards to cause a corresponding movement of the pedal assembly.

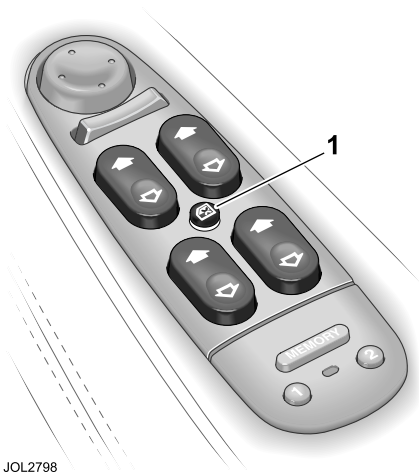
Two pedal positions may be stored and recalled by the driver position memory system, refer to Memory Setting on page 88.



JOL2796

Door Windows

Window Operation



The front and rear door windows are electrically operated.

Switches on the driver's door control all door windows.

Passengers are provided with a switch to control their door window only.

These switches will only operate the windows when the ignition switch is in position 'I' or 'II' or for up to ten minutes when the ignition switch is moved to position '0' (key in or out) so long as the driver's and front passenger's doors remain closed.



WARNING:

- **When raising windows ensure all occupants are clear.**
- **When leaving the vehicle take the ignition keys to prevent misuse of the window switches by remaining occupants, especially children.**

Raise/lower

To lower a window, press and hold the rear of the switch until the desired position is reached, then release.

To raise a window, press and hold the front of the switch until the desired position is reached, then release.

If the switches are held for longer than six seconds, for example, when attempting to overcome frozen or jammed windows, the window drive will be switched off for a few seconds to protect the window drive motors.

One-touch operation

Each window has a 'one-touch' facility enabling the occupant to fully open or close the window in one quick movement.

Press the switch briefly to close or open the window in one movement. Window travel can be stopped at any time by pressing the switch again.

Immobilising the rear windows

The rear windows can be immobilised from the driver's door controls to prevent passengers from operating their windows.

To immobilise the rear windows, press button (1) down to the latched position i.e. flush with the bezel.

To enable rear window operation, press button (1) again so that it is in the raised position with the white band showing.

Door Windows

Window Anti-trap Protection

Each electrically operated window has an anti-trap protection feature. If the upward movement of the window detects an obstacle the anti-trap system will immediately stop the window closing, then move it downwards for a short distance.



WARNING:

If the battery is disconnected or discharged the window anti-trap feature is lost. When the battery is reconnected or recharged the window anti-trap system must be reset.

To reset the electrically operated windows anti-trap system

- Fully close the window, hold the switch in the close position for two seconds and then release the switch. Wait for two seconds, do not open the window.
- Again, select the same window to close, holding the switch for a further two seconds.
- Check to confirm the operation by opening the window and then use one touch operation to close the window.
- Repeat for the remaining electrically operated windows.

To override the anti-trap protection

The anti-trap system will also stop the window closing if a blockage or resistance occurs e.g. in the window guide channels. Typically this might be due to icing in winter but could also be caused by damage or misalignment of the guide channels or seals.

To override the anti-trap action:

- After the initial attempt to close the window, operate the close switch a second time.
- When the window has reversed from the blockage, operate the switch (within ten seconds) until the window stops again (it will not reverse on the third attempt).
- Immediately operate the close switch again. The window will now move up a short distance with increased force to override the blockage.
- Repeat the override action until the window has closed. Each time the window stops, the switch must be operated immediately to initiate further override action.

If this procedure fails to move the blockage, the anti-trap feature will be lost and must be reset (see first column) after the blockage has been cleared.

Thermal overload

If the windows are repeatedly opened and closed (e.g. by a child), a protection system will de-activate window operation for a short period to avoid overheating of the window motors.

Mirrors

Door Rear View Mirrors



JOL2800

Both door mirrors are adjusted from the driver's door switchpack.

The four-way adjustment button (1) moves the mirrors to the required position. The selector switch (2) selects the mirror to be moved, left for the left-hand side mirror and right for the right-hand side mirror. When the selector switch is in the centre position, adjustment to either mirror is inhibited.

The mirror housings are designed to pivot against the vehicle upon impact. To return the mirror to its normal position, manually reposition the housing until it locks into place.

Door mirrors – power foldback (Where fitted)

To assist parking by reducing the overall vehicle width, an optional facility enables the door mirrors to be folded back.

Set mirror selector switch (2) to the centre position.

To fold the mirrors inwards, briefly press the rear of button (1). Press the rear of button (1) again to return the mirrors to their normal driving position.

Note:

- If the button is pressed repeatedly, a thermal cut-out will prevent damage to the vehicle's electronics. If this occurs, wait for five minutes for the cut-out to reset, before operating the button.
- If the thermal cut-out operates and leaves the mirrors in the folded position, the mirrors can be folded outwards manually.
- If the door mirrors are repositioned manually (or knocked out of position), the mirror head will be loose. To re-engage the mechanism, power the mirror to the foldback position, then outwards to the drive position.



WARNING:

Do not drive the vehicle with the door mirrors in the folded position, except when parking.

Caution: If door mirrors have been folded against the vehicle due to an impact:

- Reposition power foldback mirrors using the door switches.
- Reposition non-power foldback mirrors manually.

Mirror heating

The door mirrors have heating elements which work when the rear screen heater is switched ON. The mirror heater will clear all ice from the mirror surface.

Caution: Do not use a scraper to remove ice from the mirrors as this will damage the surface.

Mirrors

Electrochromic door mirrors

Electrochromic door mirrors are only fitted together with an electrochromic rear view interior mirror. The switches on the interior mirror control the electrochromic function for both door and interior mirrors (see following section).

Note: The right-hand mirror is convex, providing a wider field of vision. As a result, objects viewed in the mirror are closer than they appear.

Interior Rear View Mirror

Interior mirrors are either the manual dip or electrochromic type.



JOL2802

Manual dip mirror

The interior rear view mirror can be dipped to prevent glare from a following vehicle's headlights by pulling lever (1). Pushing the lever returns the mirror to its daytime setting.

Adjusting the mirror – The mirror is mounted on an adjustable arm (2) which can be angled to change the mirror height and lateral position.

Hold the arm and move to the desired position and then readjust the mirror itself.

Interior rear view mirror – electrochromic (Where fitted)



JOL2804

The interior rear view mirror is of the electrochromic type, and is operated automatically when the ignition switch is turned on.

The mirror darkens automatically to prevent glare from a following vehicle's headlights, and clears when light levels return to normal or when reverse gear is selected.

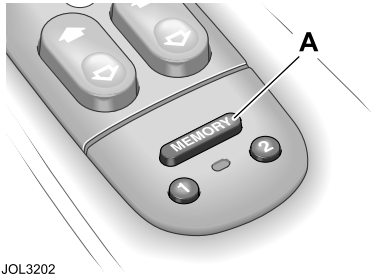
Where electrochromic door mirrors are fitted, they are operated automatically in conjunction with the interior mirror, when the ignition switch is turned on.

Note:

- Should a mirror assembly become detached from the windscreen, it must be refitted by a Jaguar Dealer/ Authorised Repairer.
- Ensure that the windscreen in front of the mirror is kept clean. Where fitted, the moisture sensor for wiper operation is located to the front of the mirror casing. Any dirt may affect the operation of this sensor.

Driving Position Memory

Memory Setting



JOL3202

This optional facility enables the position of the driver's seat, steering column, pedals and exterior rear view mirrors to be memorised and recalled. Two different driving position profiles can be entered in the memory.

A key does not have to be in the ignition switch for seat, mirror, steering column or pedals adjustments, nor for memory setting.

Setting a driving position

To store a driving position in the memory:

1. Adjust the seat, steering column, pedals and exterior rear view mirrors to the desired positions.
2. Push the **MEMORY** button (A) and the red LED in the switchpack will illuminate for a five second period.
3. While the red LED is illuminated, push button '1', or '2' to memorise the configuration. The LED will go out and a chime will indicate that the setting procedure is complete. Additionally, if the ignition is on (position 'II'), the message centre will display a message that the settings have been saved.

By repeating these three steps and pressing the unused button ('1' or '2'), a further driving position can be stored in the memory.

To set a new driving position, adjust to the desired position and perform steps 2 and 3. The previous memory will be erased and the new position will be set.

Recalling a memorised position from the door switchpack

The gear selector lever in automatic transmission vehicles must be in 'P', and for manual transmission vehicles the parkbrake must be applied.

Press and release the appropriate memory button ('1' or '2'). The seat, steering column, pedals and door mirrors will move automatically to the memorised position.

Memory recall using a key transmitter

The key transmitter will recall a memory position when the unlock button is pressed when set as follows:

1. Adjust the seat, steering column, pedals and exterior rear view mirrors to the desired positions.
2. Press the **MEMORY** button: The red LED will illuminate for a five second period.
3. Press any button on the key transmitter and then press button '1' or '2'. Both button presses must occur while the red LED is illuminated.
4. Repeat for the other transmitter, pressing the remaining memory button.

Driving Position Memory

To cancel key transmitter memory recall:

1. Press the **MEMORY** button: The red LED will illuminate for a five second period.
2. Press any button on the key transmitter (except the panic button) then press the **MEMORY** button again. Both button presses must occur while the red LED is illuminated.

Driving position memory system operating tips

- When making adjustments to a set driving position, reset the new position in the same memory channel.
- A driving position will only be memorised during the five second period when the red memory LED is illuminated.
- Previous memory is erased when a new driving position is entered.
- Ensure that the seat has completed moving into the required memory position before shifting the gear selector from the '**P**' position, or in the case of manual transmission, releasing the parkbrake.
- If the seat memory does not recall correctly, the seat may require to be recalibrated. This may be due to an interruption in the electrical supply. To recalibrate the seat it should be powered fully forwards and backwards and fully upwards and downwards.

Luggage Compartment

Luggage Tie-down Loops



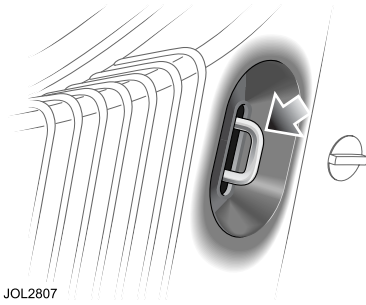
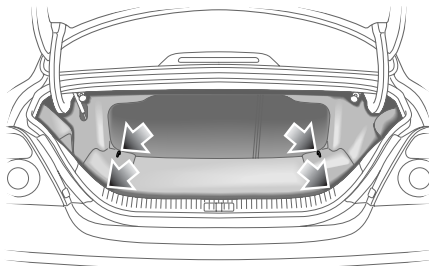
WARNING:

- **Locate heavy loads in the luggage compartment towards the front of the vehicle and secure them to stop them sliding. Loose items can be a hazard.**
- **Do not drive with the luggage compartment lid open as exhaust fumes can be drawn into the passenger compartment.**

These loops are not to be used for securing passengers or animals nor as anchorages for child restraints.

A range of Jaguar storage accessories, including a luggage retaining net, are available from your Dealer/Authorised Repairer.

It is advisable to distribute luggage weight evenly over the entire luggage floor area, particularly to prevent permanent damage to the seat trim when a seat has been folded down.

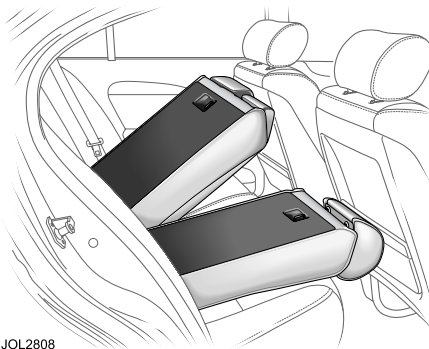
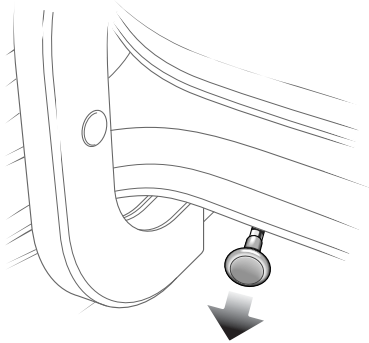


JOL2807

Four metal loops are positioned in the luggage compartment for attaching straps to secure loads and prevent them from sliding over the luggage floor.

Luggage Compartment

Rear Seat Back Fold Down



JOL2808

To provide a longer luggage compartment area, the backs of the rear seat on most models can be folded down in two parts to give a 60/40 width split.

Release handles for each seat back are in the luggage compartment under the parcel shelf.

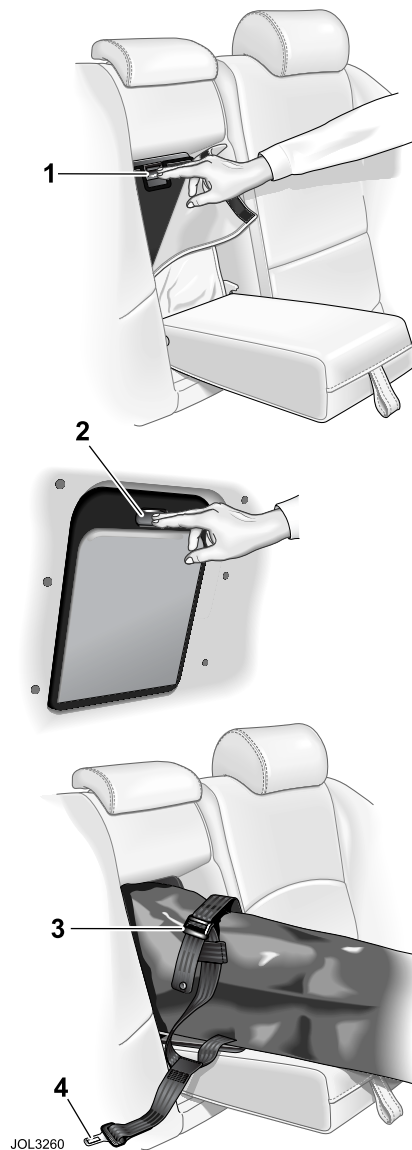
Pull the selected side handle to release the seat back and then fold it onto the seat cushion.

Ensure when folding the seat back down that the armrest is stowed and that there is sufficient clearance between the seat back, including the headrest, and the back of the front seat.

When returning the seat back to the upright position ensure that the seat belts are routed correctly and are not trapped by the seat back. Press the seat back firmly and check that it is locked securely into place.

Luggage Compartment

Ski Hatch



A two-door hatch is fitted to the rear seat on some models, providing an opening between the passenger and luggage compartments. This allows space for skis or similar objects to be stowed in the vehicle. Both doors have a single catch.

The inner door is accessible after folding down the armrest. To open the door, pull the leather flap forward, press the catch (1) downwards and gently lower the door on to the armrest.

A bag for retaining the skis can now be pulled from the receptacle into the passenger compartment, and the strap (3) loosened ready to accept the skis.

The other door is accessible from inside the luggage compartment and is opened by pushing the catch (2) and lowering the door.

Push the skis into the bag from the luggage compartment and then secure the skis using the strap provided on the bag. Clip the strap connector (4) to the centre rear seat belt buckle.

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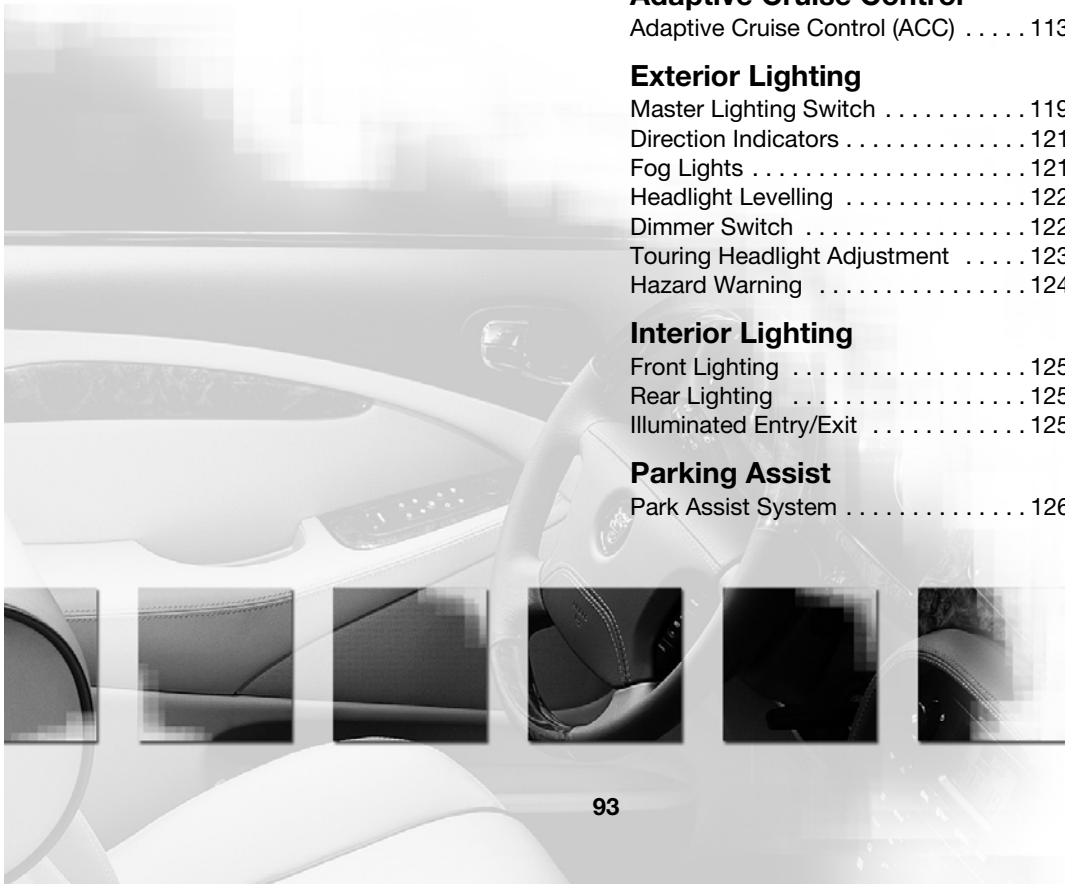
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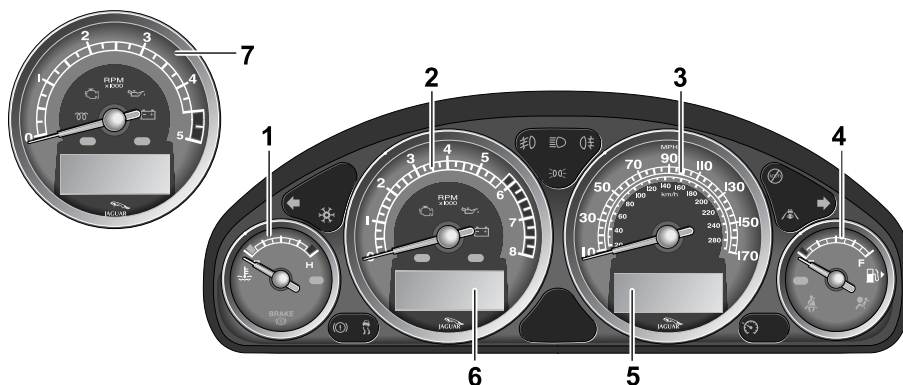
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Instruments

Instrument Panel



JOL2813

None of the instruments will show correct indications until the ignition is switched ON (position 'II').

1. Engine temperature.
2. Tachometer (petrol).
3. Speedometer.
4. Fuel level gauge.
5. Message centre/Clock display.
6. Message centre/Odometer.
7. Tachometer (diesel).

Engine temperature (1)

Drive at moderate road and engine speeds until normal operating temperature is reached. This is indicated when the pointer is between the blue (cold) segment and the red (hot) segment.

The engine operating temperature will vary with changes in weather and engine load. The engine temperature may rise in some circumstances, such as:

- Idling for long periods in slow moving traffic.

- Driving up a long hill in hot weather.
- Driving slowly or stopping after driving at high speed.
- Towing a caravan or trailer.



WARNING:

- It is unsafe to run the engine in an overheated condition.
- The radiator cooling fans may continue to run after the ignition has been switched off but will automatically switch off when the engine has cooled sufficiently.
- Do not remove the coolant reservoir filler cap while the engine is hot. If it is essential, then protect your hands against escaping steam. **SLOWLY** turn the cap anti-clockwise to allow the steam pressure to escape completely before removing the cap.

Instruments

Should the pointer move into the red segment (**H**) of the coolant gauge a RED priority light within the temperature gauge is displayed. Stop the vehicle as soon as it is safely possible, turn off the engine and open the bonnet to allow the engine to cool.

Note: *To assist cooling, high engine temperature automatically turns off the air conditioning. To maintain some cooling it is advisable to switch the air distribution to 'recirculation'.*

Tachometer - petrol (2), diesel (7)

The tachometer indicates engine speed in revolutions per minute and is calibrated in increments of 250.

- For petrol models, the scale extends to 8000 rev/min.
- For diesel models, the scale extends to 5000 rev/min.

Caution: Do not allow the needle to enter the red sector.

Speedometer (3)

Speed indication is in either:

- miles per hour, the outer figures, and kilometres per hour the inner figures or;
- kilometres per hour, the outer figures, and miles per hour the inner figures or;
- kilometres per hour only.

Fuel level gauge (4)

Indicates the amount of fuel in the tank.

An amber warning light is displayed within the fuel gauge when the fuel in the tank is at a low level and should be refilled.

The small arrow, shown beside the fuel pump symbol, identifies on which side of the vehicle the filler cap is located.

Message centre/clock display (5)

The clock is permanently displayed on the bottom line of the speedometer message centre. To set the clock time refer to page 80.

Message centre/odometer (6)

Records the total distance covered by the vehicle. The kilometre/mileage reading is displayed on the bottom line of the tachometer message centre.

Warning Lights

Priority Lights

Warning lights are arranged within the instrument cluster.

There are two warning lights, one red, the other amber, located within the tachometer above the message centre.

'RED' warning lights are for primary warnings. A primary warning must be investigated immediately by the driver or a Jaguar Dealer/Authorised Repairer.

'AMBER' warning lights are for secondary warnings when the driver must take action and then report the fault to a Dealer/Authorised Repairer at the earliest opportunity.

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

Light check

A light check is initiated when the ignition is switched ON and lasts for three seconds (excepting the airbag warning light which will remain ON for six seconds). If any warning light remains ON after this period, investigate the cause before driving.

When activated, some warning lights have associated messages displayed on the message centre.

Note: Not all lights are included in the light check, for example main beam headlights or direction indicators.

Low oil pressure (Red)



This lights up with the ignition switched ON and should go out once the engine is running.

If the light remains ON once the engine has started or comes ON whilst driving, loss of oil pressure is indicated. STOP the engine immediately and investigate the cause.

Caution: Do not restart the engine until the cause of loss of oil pressure has been identified and rectified.

First check the engine oil level, refer to page 203.

Charge indicator (Red)



Lights up when the ignition is ON and should go out when the engine is running.

If the light stays ON when the engine is running it indicates that there is either a battery voltage fault or an alternator fault.

Turn OFF all electrical accessories, radio, climate control, rear screen heater etc. Try to use the minimum electrical load as possible such as power windows, electric sunroof etc.

Report the fault to a Jaguar Dealer/Authorised Repairer.

Seat belt (Red)



The warning light stays on for 60 seconds when the ignition is ON and:

- The driver's seat belt is not fastened.
- A passenger is sitting in the front seat and their seat belt is not fastened.

The light should go out when the driver's seat belt (and the front passenger's if the seat is occupied) is fastened

Warning Lights

Beltminder (where fitted)

The Beltminder feature is a supplemental warning to the seat belt warning function. This feature provides additional reminders to the driver that the driver's and/or front passenger's seat belt is unbuckled by intermittently sounding a chime and illuminating the seat belt warning light in the instrument cluster.

Note: *Not all countries have the warning chime.*

If the vehicle is moving above 16 km/h (10 mph) and one or both front seats are occupied and a seat belt is not fastened, a warning chime will be heard and the light will flash.


The chime sound and the light flashing will last for 10 seconds and then repeat every 30 seconds for five minutes or until the belt(s) is fastened or the vehicle stops.

If the warning light stays ON steady with the seat belt(s) fastened, report the fault to a Jaguar Dealer/Authorised Repairer. It is safe to drive the vehicle with the light ON steady, provided that the seat belt(s) is properly fastened. Ensure that all occupants seat belts are fastened before driving.

Although not advisable, it is possible to disable or reinstate the Beltminder function. Please see a Jaguar Dealer/Authorised Repairer.

Note: *If a heavy object is placed on the front passenger seat it may activate the Beltminder feature. It is recommended that the object be placed in the luggage compartment.*

Brake (Red)

 Lights up when:

- The ignition is ON and the parkbrake is ON.
- and/or the brake fluid is low,
- and/or there is a fault with the electronic brake system.

If the light is ON with the parkbrake NOT applied, low brake fluid or a fault with the electronic brake system is indicated. In this case, there may be a loss of braking assistance in one, or both, brake circuits.

If the light is ON with the ABS light also ON then the electronic brake system may not function correctly, which can impair stability when the brakes are applied.



WARNING:

DO NOT drive the vehicle until the fault is rectified. Consult a Jaguar Dealer/Authorised Repairer immediately.

Anti-lock braking system (ABS) (Amber)



If a fault has been detected in the anti-lock brake system (ABS) or the parkbrake, this

light will illuminate. A message will be displayed in the message centre, to indicate which system is at fault.

If the message ABS FAULT is displayed, the brake system will continue to function normally, but without ABS braking.

The message PARKBRAKE FAULT will be displayed if there is a fault with the parkbrake. If the red brake warning light also flashes, the parkbrake cannot be applied.

Warning Lights

Should the light come on or stay on after the bulb check cycle, stop the vehicle at the first opportunity, turn the engine OFF and then restart.

If the ABS light comes on again at the next driving event, the vehicle should be driven to a Jaguar Dealer/Authorised Repairer at the earliest opportunity.

Engine malfunction (Amber)



This light illuminates when there is an engine malfunction.

Specialised diagnostic equipment is required to repair such faults. Report the fault to a Jaguar Dealer/Authorised Repairer.

The vehicle may go to 'limp home' mode, with the possibility of reduced engine performance. Drive the vehicle with caution.

Rear fog lights (Amber)



Illuminates when the rear fog lights are switched ON.

Dynamic stability control (DSC) (Amber)



The light will flash at the rate of twice a second when DSC is operating.

The message 'DSC NOT AVAILABLE' will be displayed and the light will be ON continuously when a fault is detected in the system.

If the system is turned OFF, a message 'DSC OFF' will be displayed for four seconds and the warning light will remain ON.

When the system is turned back ON the warning light goes out and a message 'DSC ON' will be displayed for four seconds.

Adaptive cruise control (Amber)



If adaptive cruise control is active, the warning light is illuminated to indicate that the vehicle is in 'follow mode' and automatically maintaining the desired gap to the vehicle immediately ahead.

Only applicable to vehicles fitted with adaptive cruise control.

Airbag (Amber)



If the airbag system develops a fault, the warning light will flash and then come ON and remain on until the fault has been diagnosed and cleared.

Report the fault to a Jaguar Dealer/Authorised Repairer immediately.

It is safe to drive the vehicle; however, in an accident the airbags may not operate.

Glow plugs (diesel only) (Amber)



Illuminates when the ignition is switched ON and switches OFF as soon as the glow plugs reach their operating temperature, indicating that the engine may be started.

For more information on starting a diesel engine, refer to page 138.

Low outside temperature (Amber)



Illuminates when frost or ice is likely to form on road surfaces.

The light will continue to be illuminated until the outside temperature rises to a safer level.



WARNING:

Even if the light is not illuminated, there is no guarantee that at low temperatures the road is free from ice.

Warning Lights

If required, the low outside temperature warning light can be disabled by a Jaguar Dealer/Authorised Repairer.

Main beam (Blue)



Illuminates when the main beam headlights are switched ON or flashed ON.

Cruise (speed) control activated (Green)



Illuminates when cruise control, if fitted, is ENGAGED.

Front fog lights (Green)



Illuminates when the front fog lights are switched ON.

Side (parking) lights (Green)



Illuminates when the side (parking) lights are switched ON.

Direction indicators (Green)



The appropriate indicator tell-tale will flash when the column

switch is moved up or down to signal a right or left-hand turn. If a direction indicator fails, the tell-tale will flash at twice normal rate when that indicator is selected. Fit a new bulb immediately.

Note: If a bulb has failed, the audible ticking will sound at twice the normal rate.

Hazard warning lights

When the hazard warning is selected, both direction indicator tell-tales flash simultaneously.

Overspeed warning (Red)



(Middle East countries only)
Illuminates if the vehicle speed exceeds 120 km/h (75 mph).

Audible Warnings

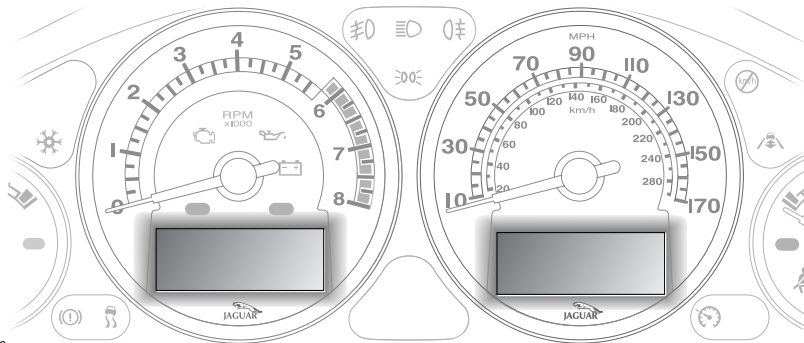
Audible Warnings

Various sounds are produced for warning and notification purposes as follows:

Hazard or Condition	Remedy/chime or tone
External lights remain ON when the driver's door is opened.	A chime will sound until the lights are switched OFF or driver's door is closed. Note: <i>The chime will not sound if the switch is in the 'Auto' position.</i>
Hazard warning indicators ON.	A ticking will sound until the hazard indicators are switched OFF.
Left or right direction indicators ON.	If the switch has not turned itself OFF, switch the turn indicator OFF when the manoeuvre is completed. A ticking will sound until the indicators are switched OFF.
Memory 1 or 2 configuration saved.	A short tone as the memory selection is saved.
Airbag system failure.	A tone sequence is repeated five times. Report the fault to a Jaguar Dealer/Authorised Repairer as soon as possible.
Seat belt reminder.	A chime will sound until the driver's seat belt is fastened or the ignition switch turned to '0'.
Electric parkbrake.	If the parkbrake is applied whilst the vehicle is moving a continuous chime is initiated; push the switch to release the parkbrake. If there is a fault with the system which would prevent the application of the electric parkbrake, a brief sequence of chimes is initiated.
ACC Driver intervene.	Action is required by the driver to apply the brakes.
ACC low speed automatic switch off.	A chime will sound to indicate that the ACC system is no longer operating.
Gear selector is not in Park with ignition OFF.	A chime will sound if the gear selector is not in Park when the ignition is switched to 'I' or OFF (automatic transmission only).

Message Centre

Display Panels



JOL2816

Driver information, messages and data are displayed on the message centre display panels situated within the instrument cluster in the tachometer and speedometer gauges.

For the message centres to operate the ignition must be switched ON (position 'II').

The primary function of the message centres are to inform the driver of the following:

- Warning messages.
- Temporary alert messages.
- Information messages.

The message centres display:

- The total distance covered by the vehicle. Permanently shown in the tachometer message centre.
- Trip computer information.
- Warning messages if system faults are detected.
- Status messages to indicate changes in state of certain vehicle functions.

- The time, permanently shown in the speedometer message centre.



WARNING:

If a red warning light is displayed, stop the vehicle as soon as possible but only when it is safe to do so.

Most messages, when displayed, have an associated warning light, red or amber, located within the tachometer which will come on to indicate the message priority.

If more than one message is active, each is displayed in turn for two seconds in order of priority.

Messages take priority over the trip computer data and, if active, will be displayed when the ignition is switched ON.

Message centre illumination

The message centre is lit at all times when the ignition is ON.

Message Centre

Messages

The tables on the following pages list all messages and warning lights and explain their meaning.

Message	Warning Light	Priority Indicator	Meaning
LOW BRAKE FLUID	Brake	Red	Displayed when the brake fluid level is low. Complete loss of braking may occur.
ENGINE COOLANT LOW	None	Red	Displayed when engine temperature becomes excessive. Pull off the road when safe to do so and allow the engine to cool.
RESTRICTED PERFORMANCE	None	Red or Amber	This will be displayed when the vehicle has possible loss of power or driveability. Report the fault to a Jaguar Dealer/ Authorised Repairer.
ENGINE SYSTEM FAULT	Malfunction Indicator light	Red	Displayed when the engine has defaulted to 'limp-home' mode. Report the fault to a Jaguar Dealer/Authorised Repairer at the earliest opportunity.
DRIVER'S or PASSENGER'S FRONT OR REAR DOOR OPEN	None	Red	Check that all doors are closed before driving.
BONNET OPEN	None	Red	Check that the bonnet is closed before driving.
BOOT OPEN	None	Red	Check that the luggage compartment lid is closed before driving.
ABS FAULT	ABS	Amber	ABS will not be available. The braking system will work but care must be used if braking heavily.

Message Centre

Message	Warning Light	Priority Indicator	Meaning
STEERING COLUMN LOCKED	None	Amber	The steering lock system has failed to unlock the steering column. The engine cannot be started. Remove the key and re-insert it into the ignition switch, then try again to unlock the column by turning the steering wheel gently to the left and right (only small movements will be possible).
HIGH GEARBOX TEMPERATURE	None	Amber	Displayed when the gearbox temperature is extremely high. The gearbox will attempt to limit the rise in temperature but the driver will experience a degradation of gearbox operation. The driver can assist by decreasing the power demand to the engine.
GEARBOX FAULT	None	Amber	It is likely that the driver will experience a degradation of gearbox operation.
DSC NOT AVAILABLE	Stability Control	Amber	Displayed when a fault occurs in the stability control system.
DSC ON or OFF	Stability Control	Amber	Displayed when the stability control system is switched ON or OFF. The warning light will FLASH when the stability control system is switched ON and operating. When the system is switched OFF, the warning light in the instrument cluster will be illuminated until the system is switched back ON.

Message Centre


Message	Warning Light	Priority Indicator	Meaning
FUEL PUMP SYSTEM FAULT	None	Amber	Displayed when a fault is detected in the fuel system. The total fuel capacity may not be able to be used. Report the fault to a Jaguar Dealer/ Authorised Repairer at the earliest opportunity.
CATS SYSTEM FAULT	None	Amber	Displayed when a fault is detected in the adaptive damping system (only those vehicles fitted with adaptive damping suspension). Report the fault to a Jaguar Dealer/ Authorised Repairer at the earliest opportunity.
WASHER FLUID LOW	None	Amber	Replenish the washer fluid at the earliest opportunity.
Note: In most countries it is illegal to use a vehicle with a defective exterior light bulb. Bulb replacement information is shown on page 179.			
LEFT or RIGHT BRAKE LAMP FAILED	None	Amber	Check for failed brake lights and replace.
LEFT or RIGHT TAIL LAMP FAILED	None	Amber	Check for any failed tail lights and replace.
FAILED LEFT or RIGHT FRONT INDICATOR	None	Amber	Check for any failed front direction indicator lights and replace.
FAILED LEFT or RIGHT REAR INDICATOR	None	Amber	Check for any failed rear direction indicator lights and replace.
FAILED LEFT or RIGHT SIDE REPEATER	None	Amber	Check for failed side direction indicator repeater lights and replace.
APPLY FOOT AND PARKBRAKE	None	Amber	If the battery has been disconnected then the parkbrake must be applied to reset the system.

Message Centre

Message	Warning Light	Priority Indicator	Meaning
PARKBRAKE FAULT	None	Amber	Displayed when there is a fault in the parkbrake system. If the light is flashing the parkbrake cannot be applied.
PARKBRAKE ON	None	None	Displayed if the parkbrake is applied whilst the vehicle is moving above 5 km/h (3 mph).
COLUMN ADJUST	None	Amber	The column adjust switch has been moved to this position.
COLUMN ADJUST AUTO	None	Amber	The column adjust switch has been moved to this position.
PEDAL ADJUST	None	None	The column adjust switch has been moved to this position.
PEDAL ADJUST INHIBITED	None	None	The pedals cannot be adjusted when the vehicle is in cruise control operation.
AUTOLAMP DELAY OFF	None	None	Autolamp delay function has been turned OFF.
AUTOLAMP DELAY X:XX	None	None	Changing the time delay will display the newly set time that the headlights will remain ON after exiting the vehicle.
MEMORY 1 or MEMORY 2 RECALLED MEMORY 1 or MEMORY 2 SETTINGS SAVED	None	None	When a memory is set or recalled, a corresponding message will be displayed.
CRUISE ENGAGED	None	None	Displayed when cruise control system is operating.
CRUISE OVERRIDE	None	None	Driver is pressing the accelerator pedal overriding cruise control function. Message will disappear when accelerator pedal is released and cruise control speed is resumed.
CRUISE CANCELLED	None	None	Driver has cancelled cruise control or is braking.

Message Centre

Message	Warning Light	Priority Indicator	Meaning
CRUISE NOT AVAILABLE	None	None	Cruise control or adaptive cruise malfunction.

The following messages only apply to vehicles fitted with adaptive cruise control.			
DRIVER INTERVENE	None	None	Action by the driver to apply the brakes is required.
SETSPEED XXX KM/H	None	None	Speed set for adaptive cruise control.
GAP ← -- →	None	None	Set the distance (time gap).
ACC SENSOR BLOCKED	None	None	Clean the front of the vehicle in the area of the sensor unit (the sensor is mounted behind the left-hand cover in the lower cooling air inlet).
FORWARD ALERT OFF	None	None	Forward alert feature has been switched OFF.  WARNING: A warning will not be given for objects detected in the vehicle path of travel.
FORWARD ALERT ← -- →	None	None	Forward alert feature has been switched ON or the setting changed. A warning will be given for objects detected in the vehicle path of travel. A longer gap indicates that the system will warn when detected objects are further away than the previous setting.

Trip Computer

Computer Display

The computer memory stores data for a journey or series of journeys until it is reset to zero.

The displayed information is for guidance only, as it can be affected by traffic, road and weather conditions.

Two independent memories are available (A and B) to allow two separate journeys to be recorded concurrently, for example, work usage and evening/weekend usage.

Trip distance, average fuel economy and average speed will be prefixed A or B depending on the current memory selected.

Press the TRIP button on the end of the left column stalk switch repeatedly to display the data in the following order:

- Trip distance.
- Distance to empty.
- Average fuel consumption.
- Current fuel consumption.
- Average speed.

Odometer

The odometer shows the total vehicle distance travelled since the vehicle was new.

When the ignition is switched ON (position 'II') the display shows the odometer and trip distance readings.

The odometer reading is displayed in either miles or kilometres, depending on the units selected with the trip computer.

Trip distance (A/B)

Distance travelled since the last memory reset. The maximum trip reading is 16,090 kilometres (9999.9 miles). The computer will automatically reset to zero if this distance is exceeded.

Distance to empty

Predicted distance, miles or kilometres, that the vehicle should travel on the remaining fuel, assuming average fuel economy and fuel consumption stay constant.

Average fuel consumption (A/B)

The average fuel consumption, litres per 100 kilometres (except Japan, kilometres per litre), or miles per gallon, based on the accumulated distance travelled and the accumulated fuel used.

Current fuel consumption

This function shows the instantaneous or 'at the moment' fuel consumption, which is continuously updated.

Note: Diesel only: average and current fuel consumption figures do not take into consideration the fuel used by the auxiliary fuel heater. Refer to page 160.

Average speed (A/B)

The average speed since the last press of the reset button.

Trip Computer

Trip Computer Switchpack



JOL3238

ML/km

Pressing the 'ML/km' switch alternately displays data in metric or imperial units.

A/B

Selects either A or B trip memory. Select the required data using the column stalk **TRIP** button and then pressing **A/B** will show the A or B information for that data.

RESET

- One short press clears (hides) the displayed message. Continue to give brief presses to clear one message after another until all messages are cleared. If a further press is made, all hidden messages are displayed again.
- Press and hold for three seconds to reset or clear the selected trip, A or B, to zero.

Note: If warning messages are hidden, the warning/fault still exists and requires investigation.

Warning and Information messages have priority over trip data and, if active, will be displayed when the ignition is at position 'II'.

Display language

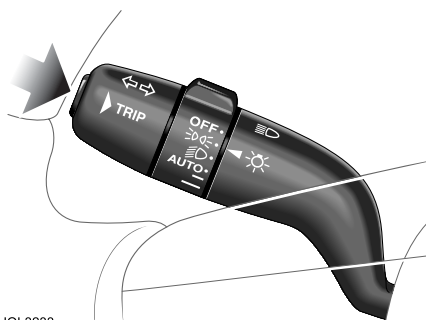
To change the display language, switch the ignition ON while pressing the 'ML/km' switch. The trip computer will display the current language.

Press the 'ML/km' switch repeatedly to cycle through the available languages. Once the correct language is selected, press the 'A/B' switch. The new language will be selected after a delay of three seconds.

Note: If you wish to exit the language selection function without changing the display language, you can either press the 'RESET' switch, wait for ten seconds or switch the ignition OFF.

Trip Computer

Setting the trip computer



JOL3233

At the start of the journey (or series of journeys) to be recorded, reset the computer memory to zero as follows:

1. Press the **TRIP** button on the end of the left column stalk switch to select a trip function. The computer will display either TRIP A: or TRIP B: data.
2. Press the **A/B** switch to select the trip (A or B) to be reset.
3. Press the **RESET** switch and hold for three seconds.

The display will read:

RESETTING TRIP A (or B).

Then it will reset and display:

A: 0 (or B: 0) or the new value.

Note: All trip functions, for A or B depending on which was selected, will be reset.

Clearing messages

Messages can be hidden by pressing **RESET** on the trip computer switchpack. One press will hide one message. Once all messages have been hidden, the display will show trip data.

If **RESET** is pressed again, all active messages will be 're-displayed'. Repeatedly pressing the **RESET** button will cycle through the trip and message modes.

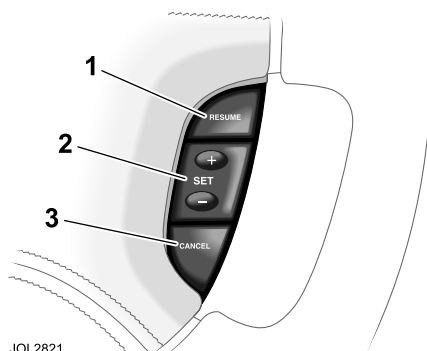
If a fault occurs when in trip computer, the relevant message will be displayed immediately.

If a trip computer function is selected by pressing the **TRIP** button while messages are displayed, the trip data will be displayed for ten seconds then the message will reappear.

Hidden messages reappear after an ignition OFF/ON cycle, if the fault remains.

Cruise (Speed) Control

Steering Wheel Switches



The cruise (speed) control system, when fitted, can be used by the driver to maintain a selected vehicle speed above 25 km/h (16 mph) without the driver having to use the accelerator.

Switches on the steering wheel allow the driver manual control of the system. Brake and clutch operations also influence the cruise control system.

RESUME (1) to resume the set speed retained in memory.

SET (2) to set the speed or increase/decrease the set speed when the speed has been set.

CANCEL (3) cancels cruise control but retains the set speed in memory.

Setting vehicle speed



WARNING:

Only use cruise control when conditions are favourable, for example, straight, dry, open roads with light traffic.

When you are travelling at the speed you require, which must be above 25 km/h (16 mph), press the **SET** button.

Cruise control will engage and maintain the set speed and you can remove your foot from the accelerator pedal.

Note: Cruise control will automatically disengage when the brake pedal is pressed or when the vehicle speed falls below 25 km/h (16 mph). If the vehicle has a manual gearbox, pressing the clutch pedal will also disengage the cruise control.

Changing the set speed

There are three ways to change the set speed:

- Accelerate or decelerate to the desired speed then press the **SET (+)** button.
- Increase or decrease the speed by pressing and holding either **SET (+)** or **(-)** until the desired speed is obtained, then release the switch.
- Increase or decrease the speed in steps of 2 km/h (1 mph) by pressing either the **SET (+)** or **(-)** until the desired speed is obtained.

Cruise (Speed) Control

Resuming the set speed

If the vehicle is accelerated above the set speed, then the set speed will be resumed when the accelerator pedal is released.

If **CANCEL** is pressed, or the brake or clutch pedal is pressed, the cruise control will disengage but the set speed memory will be retained. Press **RESUME** and the vehicle will return to the set speed.

Note: Cruise control will not resume at speeds below 25 km/h (16 mph).

RESUME will not operate if the ignition has been turned OFF.

Caution:

- **RESUME should only be used if the driver is aware of the set speed and intends to return to it.**
- **It is not recommended to resume set speed when a low gear is selected as excessive engine speeds will occur.**

Cruise control will switch OFF and clear the memory when:

- The ignition is switched to position '0'.
- A fault occurs. The cruise control system will switch OFF and cannot be used until the fault is cleared.

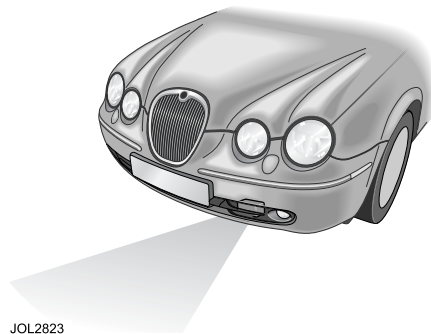
Cruise control automatic switch off

Cruise control will switch off but the set speed will remain in the memory when:

- The **CANCEL** button is pressed.
- The brake pedal is pressed.
- Speed falls below 25 km/h (16 mph).
- Neutral, Park or Reverse gear positions are selected.
- Dynamic stability control is operating.
- The difference between the actual and set speed is too great.
- When the vehicle reaches a maximum speed of:
Manual: 200 km/h (125 mph).
Auto: 192 km/h (120 mph).
- The accelerator pedal is used to accelerate beyond the set speed for too long a period.
- If the vehicle has a manual gearbox, pressing the clutch pedal will also disengage the cruise control.

Adaptive Cruise Control

Adaptive Cruise Control (ACC) (Where fitted)



The adaptive cruise control system is designed to aid the driver to maintain a gap from the vehicle ahead or a set road speed if there is no slower vehicle ahead. The system is intended to provide enhanced operation of the vehicle when following other vehicles which are in the same lane and travelling in the same direction.



WARNING:

Adaptive cruise control is not a collision warning or avoidance system. Additionally, adaptive cruise control will not detect:

- **Stationary or slow moving vehicles below 10 km/h (6 mph).**
- **Pedestrians or objects in the roadway.**
- **Oncoming vehicles in the same lane.**

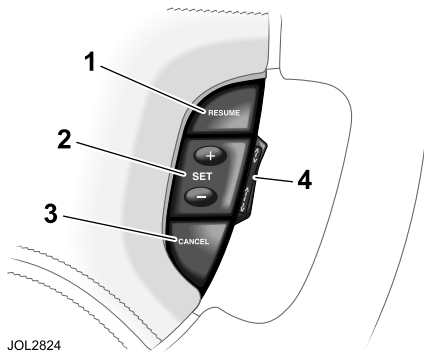
The adaptive cruise control system is based on the use of a radar sensor which projects a beam directly forward of the vehicle so as to detect objects ahead.

The radar sensor is mounted behind a cover on the left-hand side of the lower cooling aperture, to provide a clear 'view' forward for the radar beam.

- Only use adaptive cruise control when conditions are favourable, that is, straight, dry, open roads with light traffic.
- Do not use in poor visibility, specifically fog, heavy rain, spray or snow.
- Do not use on icy or slippery roads.
- It is the drivers responsibility to stay alert, drive safely and be in control of the vehicle at all times.
- Keep the front of the vehicle free from dirt, metal badges or objects, including vehicle front protectors, which may prevent the sensor from operating.
- Do not use ACC when entering or leaving a motorway.

Adaptive Cruise Control

Steering wheel switches



JOL2824

The system is operated by switches mounted on the steering wheel. The driver can also intervene at any time by use of the brake or accelerator pedals.

The steering wheel switches operate as follows:

RESUME (1): Resume set speed.

SET + or SET - (2): Set the speed (+) or increase (+) or decrease (-) the set speed.

CANCEL (3) : Cancels without erasing memorised speed.

← — → **(4):** Gap increase or decrease.

Setting a speed

Accelerate as normal until the required speed is reached.

Press the **SET +** button (1) briefly and the vehicle speed will then be stored in the memory and the system engaged. The set speed will be displayed on the message centre.

SETSPEED
50 MPH

Entering the follow mode



WARNING:

When in follow mode the vehicle will not decelerate automatically to a stop, nor will the vehicle always decelerate quickly enough to avoid a collision without driver intervention.

Once a set speed has been selected, the driver can release the accelerator and the set road speed will be maintained.

When a vehicle ahead enters the same lane or a slower vehicle is ahead in the same lane, the vehicle speed will be adjusted automatically until the gap to the vehicle ahead corresponds to the preset gap. The vehicle is now in 'follow mode'.



The warning light in the instrument cluster will be illuminated.

GAP

← — → The message centre will display the gap set.

The vehicle will then maintain the constant time gap to the vehicle ahead until:

- The vehicle ahead accelerates to a speed above the set speed.
- The vehicle ahead moves out of lane or out of view.
- The vehicle ahead slows so that 'low speed automatic switch off' occurs.
- A new gap distance is set.

If necessary, the vehicle brakes will be automatically applied to slow the vehicle to maintain the gap to the vehicle in front.

Adaptive Cruise Control

The maximum braking which is applied by the ACC system is limited and can be overridden by the driver applying the brakes, if required.

Note: *Driver braking will cancel adaptive cruise control.*

If the ACC system predicts that its maximum braking level will not be sufficient, then an audible warning will sound while the ACC continues to brake. 'DRIVER INTERVENE' will be displayed on the message centre. The driver should take IMMEDIATE action.

When in follow mode the vehicle will automatically return to the set speed when the road ahead is clear, for instance when:

- The vehicle in front accelerates or changes lane.
- The driver changes lane to either side or enters an exit lane.

The driver should intervene if appropriate.

Low speed automatic switch off

If the speed of the vehicle decreases below 30 km/h (18 mph), the ACC system will be automatically switched OFF and the instrument warning light will go out.

If the brakes were being applied by the ACC system, they will be slowly released.

This will be accompanied by an audible warning, and 'DRIVER INTERVENE' will be displayed on the message centre. The driver must take control.

Overriding the set speed/follow mode



WARNING:

Whenever the driver is overriding the ACC by depressing the accelerator pedal, the ACC will not automatically apply the brakes to maintain separation from any vehicle ahead.

The set speed and gap can be overridden by pressing the accelerator pedal when cruising at constant speed or in follow mode. If the vehicle is in follow mode, the instrument warning light will go out when the ACC is overridden by the driver using the accelerator and 'CRUISE OVERRIDE' will be displayed on the message centre. When the accelerator is released the ACC function will operate again and vehicle speed will decrease to the set speed, or a lower speed if follow mode is active.

Changing the gap

The gap from the vehicle ahead can be decreased or increased by pressing the rocker switch (4), see page 114, on the steering wheel. Four gaps are available and the selected gap setting will be displayed on the message centre when either button is pressed. After the ignition is switched ON the default gap will be automatically selected ready for ACC operation.

Note: *It is the driver's responsibility to select a gap appropriate to the driving conditions.*

Adaptive Cruise Control

Changing the set speed

There are three ways to change the set speed:

- Accelerate or brake to the required speed and press the **SET +** button (1).
- Increase or decrease the speed by pressing and holding either the **SET +** or **-** button until the required set speed is shown on the message centre. The vehicle speed will gradually change to the selected speed.
- Increase or decrease the speed in steps of 2 km/h (1 mph) by briefly pressing the **SET +** or **-** button.

ACC operates between approximately 34 km/h and 180 km/h (20 mph and 110 mph) dependent on the country specification.

Set speeds outside this range will not be captured.

The ACC may apply the brakes to slow down the vehicle to the new set speed. The new set speed will be displayed on the message centre for four seconds after it has been changed.

ACC automatic switch off

Adaptive cruise control will disengage, but not clear the memory when:

- The **CANCEL** button (3), see page 114, is pressed.
- The brake pedal is pressed.
- The vehicle speed falls below 30 km/h (18 mph).
- Neutral, Park or Reverse gear positions are selected.
- Dynamic stability control activates.

Adaptive cruise control will disengage, and clear the memory when:

- The ignition switch is set to position '0'.
- Maximum vehicle speed is reached.
- A fault occurs in the ACC system.

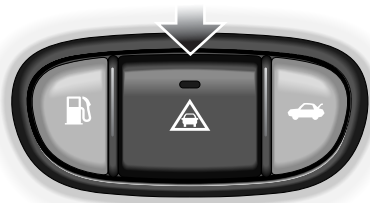
Resuming the set speed/follow mode

By pressing the resume button (1), see page 114, after ACC has been cancelled, for example, after braking, the ACC will become active again provided that the set speed memory has not been erased. The set speed will be displayed for four seconds and the original set speed will be resumed, unless a vehicle ahead causes the follow mode to become active.

Caution: 'RESUME' should only be used if the driver is aware of the set speed and intends to return to it.

Adaptive Cruise Control

Forward alert



JOL3203

Limited detection and warning of objects ahead is provided during ACC operation by the ACC 'DRIVER INTERVENE' warning. The forward alert feature additionally provides warnings whilst ACC is not engaged; if an object is detected close ahead, then the warning tone and message will be issued. The brakes will not be applied.

This additional feature may be switched on or off using the forward alert switch in the lower outboard knee bolster switchpack.

When the indicator light in the switch is on, forward alert is active.

The sensitivity of the warning may be changed:

- Press the gap decrease button when ACC is disengaged to display and then decrease the sensitivity of the alert.
- Press the gap increase button to display and then increase the sensitivity of the alert.

Both of these alerts are accompanied by the FWD ALERT $\leftarrow - \rightarrow$ message on the message centre.

Driving with ACC active



WARNING:

The driver must not rest a foot under the brake pedal, as it may become trapped.

The system acts by regulating the speed of the vehicle using engine control and the brakes. Gear changes may occur in response to deceleration or acceleration whilst in ACC.

ACC is not a collision avoidance system, however, during some situations the system may provide the driver with an indication that intervention is required.

An audible alarm will sound, accompanied by the message 'DRIVER INTERVENE' if the ACC detects:

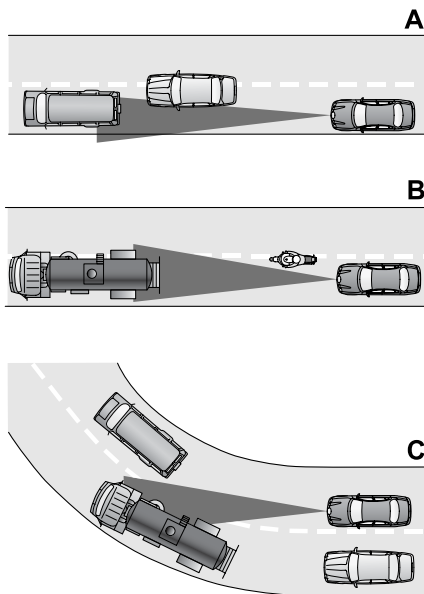
- A failure has occurred whilst the system is active.
- That using maximum ACC braking only is not sufficient.
- That the vehicle speed has decreased below the minimum for ACC operation.

Note:

- Adaptive cruise control operates when the gear selector lever is in position '2', '3', '4', '5' or 'D'.
- When engaged, the accelerator pedal rests in the raised position. Fully release the pedal to allow normal ACC operation.
- When braking is applied by the ACC the brake pedal will move down and up as braking is applied or removed. The vehicle brake lights will be switched on while braking is applied.

Adaptive Cruise Control

Detection issues



JOL2826

Detection issues can occur:

- When driving on a different line to the vehicle in front (**A**).
- With vehicles which edge into your lane which can only be detected once they have moved fully into your lane (**B**).
- There may be issues with the detection of vehicles in front when going into and coming out of a bend (**C**).

In these cases ACC may brake late or unexpectedly. The driver should stay alert and intervene if necessary.

ACC failure

If a fault occurs during operation of the system in cruise or follow modes, the ACC system will switch OFF and cannot be used until the fault is cleared. The message 'DRIVER INTERVENE' appears briefly, and is then replaced by the message 'CRUISE NOT AVAILABLE'.

If failure of the ACC or any related system occurs at any other time the message 'CRUISE NOT AVAILABLE' will be displayed. It will not be possible to activate the ACC system in any mode.

Accumulations of dirt, snow or ice on the sensor or cover may inhibit ACC operation. Fitting of a vehicle front protector or metallised badges may also affect ACC operation.

If this occurs in ACC cruise/follow mode, the audible alarm sounds and the message 'DRIVER INTERVENE' appears briefly. The message 'ACC SENSOR BLOCKED' is then displayed. The system is no longer active.

Clearing the obstruction allows the system to return to normal operation. If the obstruction is present when ACC is inactive, e.g. on initial starting or with the ACC system switched off, the message 'ACC SENSOR BLOCKED' will be displayed.

Tyres other than those recommended may have different sizes. This can affect the correct operation of the ACC.

Exterior Lighting

Master Lighting Switch

The exterior lights are controlled by the left-hand column stalk switch.

The rotary collar on the stalk has three positions for turning the exterior lights on or off and positions for autolamps/exit delay. These are:

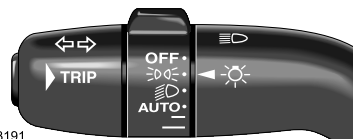
OFF



JOL3190

All exterior lights OFF (except vehicles provided with daylight running lights).

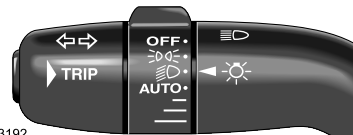
Sidelights



JOL3191

Switches on front sidelights, tail, number plate and any other marker lights required by local legislation. When the external lights are ON the instruments will also be lit.

Headlights



JOL3192

With the ignition in position 'II', this position switches on dipped headlights in addition to the lights switched on in sidelight position.

The left-hand column stalk switch has two positions for controlling the main beam.

Pulling the switch towards the steering wheel and releasing causes the main beam to flash on and off. The main beam can be flashed at any time when the switch is pulled and will remain ON for as long as the switch is held.

The second position is to switch main beam headlights ON. With the ignition in position 'II', first select dipped beam lights, and then push the column light switch away from the steering wheel.

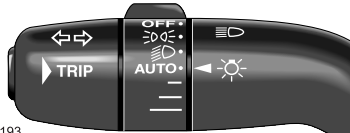
The blue warning light on the instrument cluster and main beam headlights will come ON.

To turn main beam OFF, pull the column switch towards the steering wheel to return to dipped beam.

Note: If dipped beam is switched OFF, with main beam still activated both dipped and main beam will be extinguished. Both dipped and main beam will illuminate if dipped is turned on again.

Exterior Lighting

Autolamps



JOL3193

A light sensor control, mounted on the front of the fascia, monitors exterior light levels and automatically switches the sidelights and dipped headlights ON or OFF.

The ignition switch must be in position 'II' for full automatic light operation.

When light fades towards dusk, the sidelights and headlights will switch ON automatically.

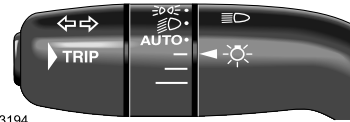
At dawn, as light increases, the sidelights and headlights switch OFF automatically.

Do not cover the sensor and keep the windscreen clean. Obstructing the light in this area of the sensor may lead to unwanted operation of the sidelights and headlights.

Windscreen wiper detection

(This function only operates when autolamps are selected.) The sidelights and headlights will switch ON automatically if the windscreen wipers are switched ON for 20 seconds or more. Once the windscreen wipers are switched OFF, the sidelights and headlights will automatically switch OFF two minutes later.

Autolamps with Exit Delay



JOL3194

Three settings on the rotary collar set the time that the headlights will remain on after the key is removed from the ignition switch:

- 10 seconds.
- 30 seconds.
- 2 minutes.

Note: If the light switch rotary collar is in the **AUTO** position there will be no exit delay and the headlights will turn off when the ignition is turned off.

Daylight running lights

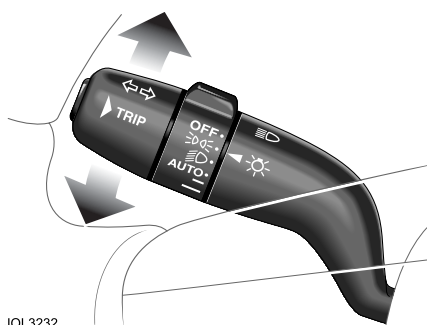
In certain countries it is a legal requirement for the lights to be on during the hours of daylight.

With the rotary collar in the OFF position, dipped headlights, sidelights, tail, number plate lights and, where fitted, side marker lights will switch on automatically with the following conditions:

- The ignition is turned to position 'II'.
- The vehicle gear selector out of park (automatic transmission only).
- The parkbrake is not applied (released).

Exterior Lighting

Direction Indicators



JOL3232

The direction indicators operate when the ignition is in position 'II'.

The left column stalk has two positions for indicating left or right turn.

The first position, moving the stalk up or down, causes the indicator to flash while it is held in this position. On releasing the stalk the indicators stop flashing.

The second position is a full movement of the stalk up or down to indicate for a right or left turn, which can then be released. The indicators will remain flashing and will cancel when the turn is completed.

An audible ticking and a flashing green arrow on the instrument cluster indicates that the selected direction indicator is ON.

Note: Should a direction indicator bulb fail, the corresponding side green warning light will flash at twice the normal rate. The audible ticking will sound at twice the normal rate.

Fog Lights



JOL3240

Front fog lights (1)

The fog lights can only be switched on when the ignition switch is in position 'II'.

With the left column stalk switch in sidelight or dip position, press the switch (1) to turn on the front fog lights. Pushing the switch again will turn off the front fog lights.

Note: The front fog lights should only be used when visibility is severely restricted by fog.

Rear fog lights (2)

The rear fog lights can only be switched on if the dipped headlights are on or if the side lights and front fog lights are switched on.

Press the switch (2) to turn on the rear fog lights. Pushing the switch again will turn off the rear fog lights.

Exterior Lighting

Headlight Levelling



JOL3242

The headlight levelling switch, on the fascia switchpack, outboard side of the steering wheel, operates when the headlights are switched ON.

Push and release the knob to extend it for ease of operation. Push the knob again to place it in the stowed position.

Turn the knob to the setting appropriate for the vehicle load, for example:

- '0' Normal setting – Driver only.
- '1' Driver and one front passenger.
- '2' All seats occupied and maximum luggage.



Fully loaded vehicle and towing a caravan or trailer.

Auto headlight levelling (where fitted)

Automatic levelling of the High Intensity Discharge (HID) headlights is a feature which avoids dazzling oncoming drivers. A control unit adjusts the height of the lights during acceleration, deceleration and terrain variation.

Dimmer Switch



JOL3244

The instruments, switch packs, in-car entertainment panel and the climate control panel will be lit when the exterior lights are switched on.

Push and release the knob to extend it for ease of operation.

Rotate the knob to adjust the illumination to the required level.

Push the knob again to place it in the stowed position.

Exterior Lighting

Touring Headlight Adjustment

Halogen headlight units

Vehicles with halogen headlight units require a converter kit which can be purchased from a Jaguar Dealer/ Authorised Repairer.

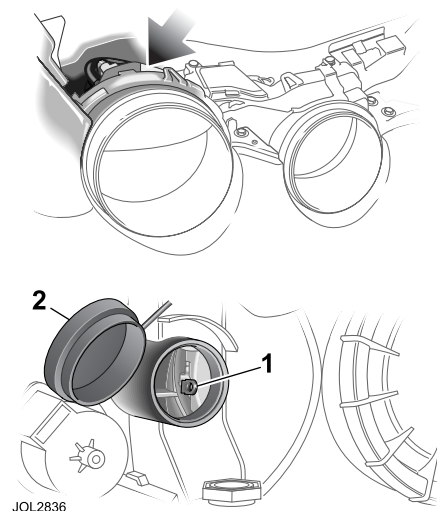
High intensity discharge (HID) lights

When touring in countries where driving is on the other side of the road to your country, your vehicle High Intensity Discharge (HID) lights may dazzle oncoming drivers.

Move the left headlight lever (1) up and the right headlight lever down to flatten the beams for driving on the left side of the road.

Refit the round cover and top cover.

Remember to place the levers back in their original position when you have returned to your country of origin.

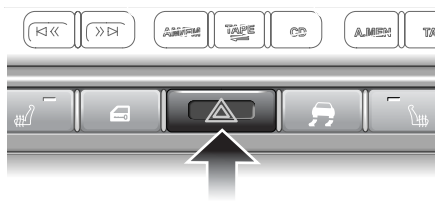


A lever (1), within each HID light unit, is used for dipped beam adjustment for touring. This lever flattens the dipped beam to avoid dazzling oncoming drivers.

Open the bonnet and remove the top cover (refer to page 179) and the small round rubber cover (2) adjacent to the main headlight rear cover.

Exterior Lighting

Hazard Warning



JOL2838

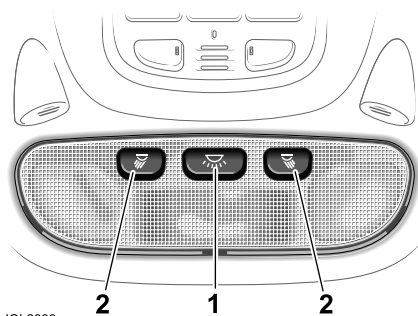
The switch is in the centre console below the radio and operates with the ignition ON or OFF. Use only in an emergency to warn traffic of a vehicle breakdown or approaching danger.

To operate: Press the switch; the direction indicators, the instrument cluster green indicators and audible warning will operate in unison. The switch symbol will light up.

To cancel: Press the switch again.

Interior Lighting

Front Lighting



JOL2839

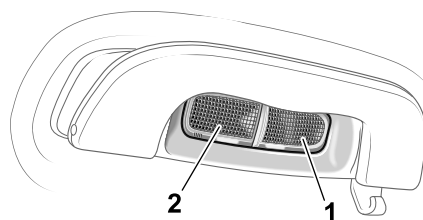
Interior lighting comprises, front and rear overhead courtesy lights, two front reading/map lights and front puddle lights. Vanity mirrors, glove compartment, footwell and luggage compartment lights are also provided.

Press the centre switch (1) in the front roof console to turn the front and rear courtesy lights, puddle lights and footwell lights on. A second press turns the lights off. The lights also operate to illuminate the vehicle interior when a door is opened.

Reading/map lighting

The reading/map lights are turned on and off by individual switches, (2) on the front overhead console.

Rear Lighting



JOL2840

The rear reading/map lights (1) can be switched on or off by pressing the lens cover.

The rear courtesy lights (2) are turned on or off by the centre switch in the front roof console or when a rear door is opened.

Illuminated Entry/Exit

When the vehicle is unlocked the courtesy lights will gradually illuminate and remain on for 20 seconds.

If the courtesy lights are on they will fade off 20 seconds after the last door is closed, or when the vehicle is locked.

Battery saver

If the ignition switch is turned to position '0' and the interior lights are switched on using the centre switch in the overhead console or by opening a door, the lights will automatically turn OFF after ten minutes.

If the glove compartment lights, luggage compartment lights, front/rear reading/map lights or vanity lights are switched on, and the ignition switch is turned to position '0' or the key is removed, the lights will automatically turn OFF after 40 minutes.

Parking Assist

Park Assist System

(Where fitted)

Caution: It remains the driver's responsibility to detect obstacles and estimate the car's distance from them. Some overhanging objects, barriers, thin obstructions or painted surfaces which could possibly cause damage to the vehicle may not be detected by the system. Always be vigilant when reversing.

The Park Assist System is always automatically switched on when the ignition is turned on.

Caution:

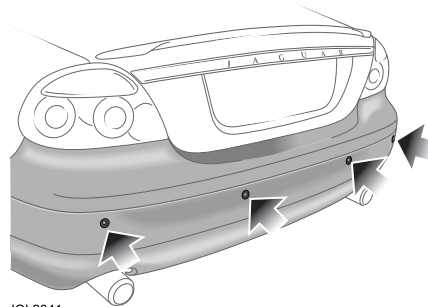
- If, for example, you are driving within a confined space such as a home garage, the outer sensors will detect the side walls and after 3 seconds will switch the tone off. However, as movement continues, the inner sensors will eventually detect the rear wall and will start the tone again.
- The rear sensors are not active when the gear selector is in neutral, therefore care should be taken if moving the vehicle as the tone will not sound.
- Do not clean the sensors with abrasive or sharp objects.

Note:

- For reliable operation, the sensors in the front and rear bumpers should be kept free from ice, frost and grime.
- When using a high pressure spray the sensors should only be sprayed briefly and not from a distance of less than 200 mm (8 inches). Do not clean the sensors with abrasive materials.

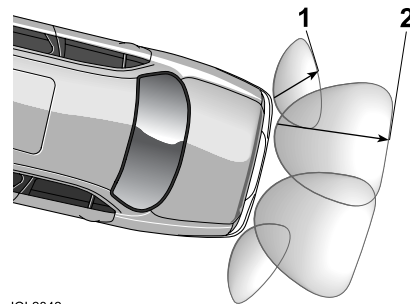
- The front parking assist may sound spurious tones if it detects a frequency tone using the same band as the sensors.

Rear parking assist



JOL2841

When reverse gear is selected and the ignition is on, rear parking assist automatically provides an audible proximately warning (to the nearest detected object) when reversing the vehicle, if obstacles are detected within operating range of the rear of the vehicle, as shown in the illustration below.

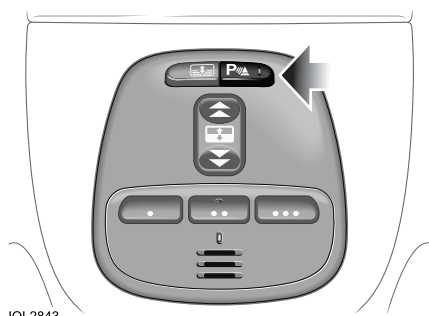


JOL2842

- (1) is approximately 600 mm (24 inches).
(2) is approximately 1600mm (63 inches).

Parking Assist

Front and rear parking assist

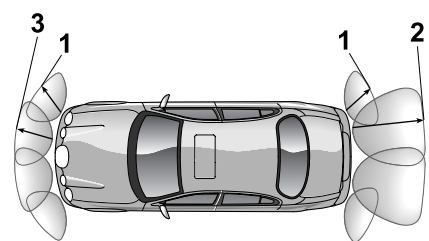


JOL2843

When both front and rear parking assist are fitted, a switch is located in the overhead console.

Pressing the switch turns front and rear parking assist on or off together. The integral switch warning light will come on when the system is turned off or if a fault is detected in the system. A switch is not provided when only rear parking assist is fitted.

Note: The front parking assist will also operate when reverse gear is selected.



JOL2844

Front parking assist provides an audible proximity warning when driving forwards.

The front sensors only operate within a fixed speed range in forward gears and are not effective when moving forwards above 15 km/h (9 mph) or when slowing down until below 7 km/h (4½ mph).

If objects are detected within the operating range shown in the illustration above (between approximately 600 mm (24 inches) (1) and 800 mm (31 inches) (3) to the front of the vehicle).

If an obstacle is detected at the front or rear of the vehicle, a beep tone will be heard from the front or rear speaker respectively.

The bleep tone increases in rate as the vehicle approaches the obstacle.

The front or rear parking assist beep will become continuous when the obstacle is detected at or within 300 mm (12 inches) from the rear or approximate 250 mm (10 inches) from the front of the vehicle.

If the system has a fault when engaging reverse gear or turning on the ignition, then a single, three second tone will be heard (only once per ignition cycle) and, if fitted, the switch light will come on. The system is automatically disabled when a fault is detected.

Towing

Where approved Jaguar tow-bar electrics are fitted, the reverse parking assist is automatically switched off if a caravan or trailer is attached to the vehicle. The front parking assist will remain active.

Rear fitted accessories

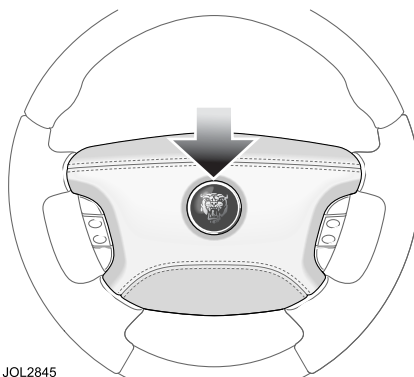
Particular care must be taken when reversing with rear fitted accessories e.g. tow-bar or bicycle carrier, as the rear park assist will only indicate the distance from the bumper to the obstacle.

Horn

Horn Operation

The dual tone horn is operated by pressing the centre pad on the steering wheel.

The horn also operates as a warning horn if the vehicle alarm system is activated.

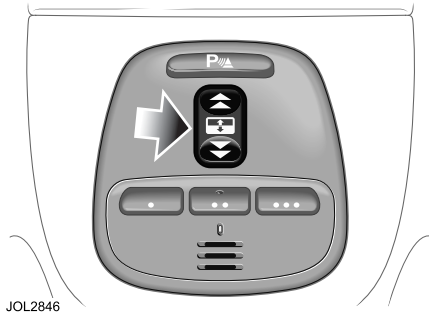


JOL2845

Sunroof

Sunroof Operation

(Where fitted)



WARNING:

- Before opening or closing the sunroof check that all occupants are clear.
- When leaving the vehicle take the ignition key to prevent misuse of the sunroof switch by remaining occupants, especially children.

The sunroof switch is located in the overhead console. The ignition switch must be in position 'I' or 'II' for the sunroof to operate.

To open the sunroof

- Push the rear of the switch gently upwards to the first position and hold until the sunroof is fully open. The sunroof can be stopped at any open position by releasing the switch.
- To fully open the sunroof with one-touch operation, briefly push the rear of the switch fully upwards to the second position and then release. To stop the sunroof opening, briefly press the switch upwards, forwards or rearwards.

To close the sunroof

- Push the front of the switch upwards to the first position and hold until the sunroof is closed. It can be stopped at any position by releasing the switch.
- To close the sunroof with one-touch operation, briefly push the front of the switch upwards to the second position and then release. To stop the sunroof closing, press the switch upwards, forwards or rearwards.

To tilt the sunroof open

- Push the front of the switch upwards and hold until the required position is reached, or until the tilt is fully open, and then release the switch.

To tilt open with one touch operation

- To tilt open with one-touch operation, briefly push the switch upwards to the second position.

To close the tilted sunroof

Push and hold the rear of the switch until the sunroof is closed. Briefly push the rear of the switch upwards to the second position to tilt closed with one touch operation.

Sunshade operation

The sunshade can be manually opened and closed using the pull cup.

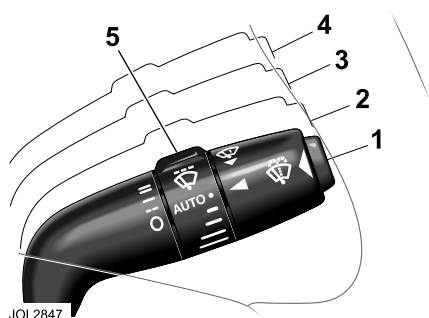
When the sunroof is fully open the sunshade is also fully open and, because the pull cup is hidden, it cannot be manually closed from this position.

Note: The sunroof will need to be fully closed to gain access to the pull cup.

Wipers and Washers

Windscreen Wipers

The windscreen wipers and screen wash functions are controlled by the right-hand column stalk switch and only operate with the ignition in position 'II'.



The stalk functions are as follows:

1. Windscreen wipers off and parked.
2. Intermittent wipe.
3. Slow wiper operation
4. High speed wiper operation.
5. Rotary collar.

Intermittent wipe

When intermittent wipe is selected the delay between wipes can be varied. Turn the collar (5) to vary the delay from 3 seconds to 18 seconds.

Flick wipe

Pull the column switch towards the steering column for a single wipe. Holding the column switch in this position will operate the wiper continuously at slow speed until released.

Rain sensitive wiper control

(Where fitted)

When **AUTO** (turn the rotary collar (5) to **AUTO**) and intermittent wipe (2) are selected, the wipers will automatically operate when rain falls on to the windscreen, or when moisture is present. For the wipers to operate, the ignition switch must be in position 'II'.

Note: When starting a journey with a wet windscreen, the rain sensing wipers will not operate immediately the ignition is switched on. Therefore, a flick wipe should be used to clear the windscreen of any moisture.

Caution:

- Ensure that **AUTO** is not selected when entering a car wash or damage to the wiper blades/arms can occur.
- During frosty conditions ensure that **AUTO** is not selected before operating the ignition switch as damage to the wiper blades can occur when the windscreen is frozen.

Wipers and Washers

Windscreen Wash/Wipe



JOL2848

Push the button on the end of the switch to obtain the wash/wipe programme. If the wipers are selected off or intermittent, the washers will operate at slow speed during the washing action when the button is pressed.

When the button is released, the wipers will complete three further wipes.

If rain sensitive wipers are fitted and selected then the wipers will operate until no moisture is detected.

Headlight powerwash (where fitted)

Note: The headlight powerwash units are mounted between the front headlights.

The headlight powerwash feature will operate if the Ignition is in position 'II' and dipped beam headlights are switched ON. It will not operate if the washer fluid level is low.

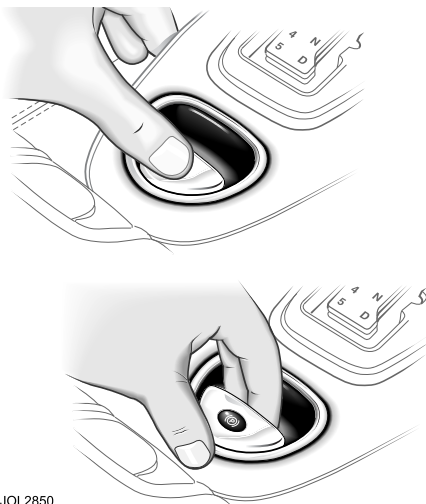
When the windscreen wash/wipe button is pressed, the headlight powerwash directs a short burst at the headlights. If the wash/wipe button is held, the screen wash cycle will continue for up to 20 seconds.

The headlight powerwash will operate the first time the wash/wipe button is pressed and thereafter every sixth succeeding wash/wipe operation. If the headlights or ignition are switched OFF and ON again, headlight powerwash will operate on the next press of the wash/wipe button.

Note: If the washer fluid level is low in the reservoir the windscreen wipers will not operate when windscreen wash is selected even though there may be washer fluid remaining in the reservoir and sprayed onto the screen. This is to prevent damage to the blades, scratching of the glass, or smearing dirt across the screen. Flick wipe can be selected to clear the sprayed fluid from the screen.

Parkbrake

Parkbrake Operation



JOL2850

The switch which operates the parkbrake is mounted on the centre console to the rear of the gear selector.

To engage the parkbrake: Pull the parkbrake switch upwards and release. The switch will return to the neutral position. The parkbrake warning/brake fluid low warning light on the instrument cluster will illuminate.

To disengage the parkbrake: With the ignition switch in position 'II' or with the engine running, apply the foot brake (automatic models only) and press the parkbrake switch down. The parkbrake will release without the foot brake applied where manual transmission is fitted.

The 'Drive Away Release' feature allows the parkbrake to release automatically as the vehicle is driven away.

Automatic vehicles only: If the parkbrake is applied while the vehicle is stationary and 'D' or 'R' is selected, applying the throttle will automatically release the parkbrake.

The parkbrake is also automatically released when the gear selector is moved from 'P' position.

Manual vehicles only: The parkbrake can be released by pushing the switch down at any time when the engine is running.

To use the 'Drive Away Release' feature, where fitted, on manual transmissions, first or reverse gear should be selected.

The parkbrake is timed to disengage as the clutch pedal is released with the accelerator pedal being depressed.

To override the 'Drive Away Release' the parkbrake switch should be held in the applied position until a release of the parkbrake is required. It is recommended that override is used when towing a caravan or trailer.

The 'Drive Away Release' feature is inhibited under the following conditions:

- When the vehicle is parked on a steep gradient facing down the hill and the vehicle is to be driven forward.
- When the vehicle is parked on a steep gradient facing uphill and the vehicle is to be reversed.

Parkbrake

All vehicles: Inadvertent operation of the parkbrake whilst the vehicle is in motion will cause the message 'PARKBRAKE ON' to be displayed on the message centre, the warning light in the instrument cluster will be illuminated and a warning chime will sound.

If the parkbrake is applied whilst the vehicle is moving, releasing the switch will disengage the parkbrake. The parkbrake cannot be applied whilst the vehicle is moving and the throttle pressed.

Note: *If the vehicle is in motion, the parkbrake should only be used as an emergency brake.*

The parkbrake is automatically applied when the key is removed from the ignition switch. If you wish to keep the parkbrake off, press and hold the parkbrake switch down and, at the same time, remove the key.

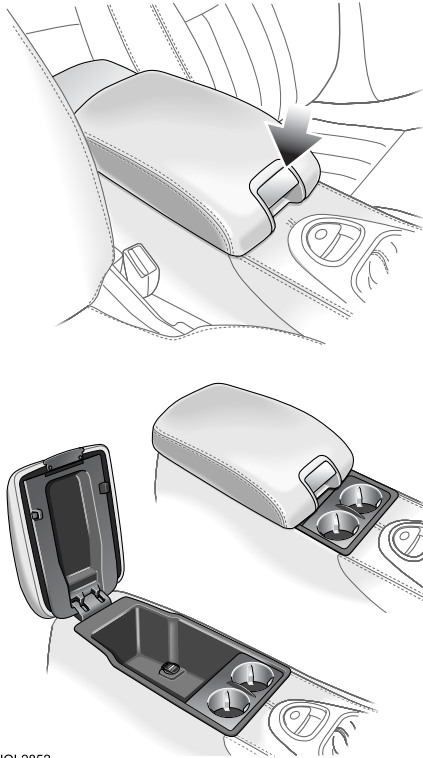
Caution: **Take care that the vehicle is safely parked to prevent it from rolling if you wish to leave the parkbrake off.**

The warning light in the instrument cluster will remain on for a short time if the parkbrake is applied when the ignition switch is turned to position '0' or if the ignition key is removed.

If the battery has been discharged or disconnected a message 'APPLY PARKBRAKE' will be displayed when the ignition is next switched on. Depress the footbrake and pull the parkbrake switch up to apply the parkbrake. This is required to reset the parkbrake system. The parkbrake will now function correctly.

Interior Features

Centre Console



The centre console carries the cupholders (where fitted), the cubby box and armrest and the telephone (where fitted).



WARNING:

- **Do not place hot drinks in the cupholders whilst the vehicle is moving, there is a risk of scalding.**
- **Use soft cups only.**

The sliding armrest is hinged at the rear and has a release button located on the front of the armrest.

The chromed button is pulled upwards to raise the armrest and gain access to the cubby box or the telephone (where fitted). As the armrest is lifted it slides back under its own weight allowing full access to the cubby box.

To slide the armrest to expose the two cupholders (where fitted), pull the button upwards and slide the armrest rearwards.

An electrical accessory socket (where fitted), is located inside the cubby box. This 12 volt socket should only be used for the temporary connection of electrical items, such as a vacuum cleaner, cool box or to charge the telephone battery.

The cigar lighter is designed to be used just to heat the lighter element and not for providing a power source for accessories.

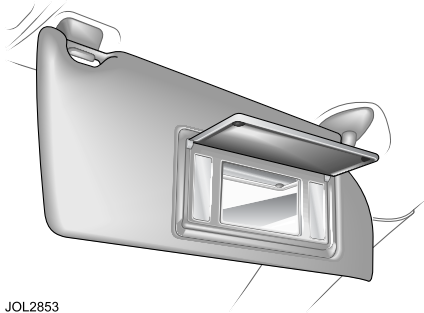
Rear Centre Armrest

(not shown)

Pull the loop on the rear centre armrest to lower, refer to page 92. If not required, raise the armrest to its upright position and push firmly into place. Ensure that the armrest is raised when lowering the seat back to increase the luggage compartment area.

Interior Features

Sun Visors and Vanity Mirrors

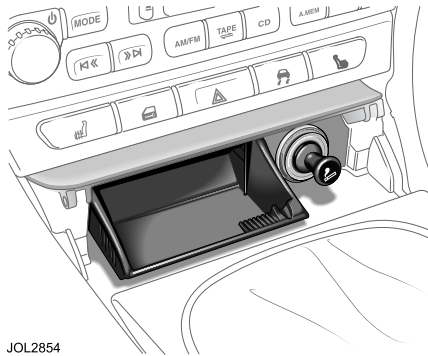


JOL2853

Adjustable sun visors can be swung downwards or unclipped and swung sideways to reduce sun glare.

The sun visors are fitted with illuminated vanity mirrors, behind a hinged flap. The light comes on when the flap is lifted.

Cigar Lighter and Ashtray



JOL2854

To gain access to the cigar lighter and ashtray, press the lid at the bottom edge.

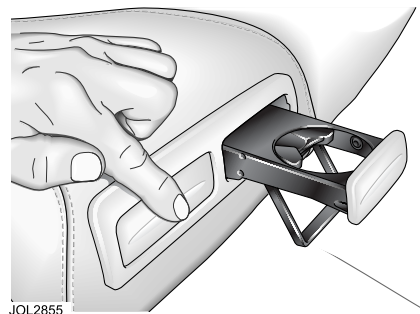
To operate the cigar lighter the ignition must be on, press the lighter in and wait until the element has heated, it will then pop-up.

Note: Never hold the lighter knob down. Do not attempt to remove particles from the heating element as it is self-cleaning. The cigar lighter is designed to be used just to heat the lighter element and not for providing a power source for accessories.

To empty the ashtray, lift it out vertically and remove. After emptying, push the ashtray into the opening until it snaps back into place.

The cigar lighter is replaced by a 12 volt accessory socket on certain models.

Rear Cupholders



JOL2855

Cupholders for rear seat passengers can be accessed by pushing a tray front to release it from the seat. Push the cupholder back into the seat when no longer required.



WARNING:

- **Never have hot liquids in the cupholder whilst the vehicle is moving. If the contents spill, occupants could be scalded.**
- **Use only soft cups and cool liquids.**

Interior Features

Glove Compartment



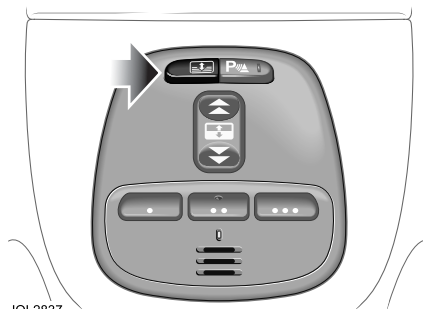
A glove compartment is located below the passenger's airbag.

To open the glove compartment, lift the handle and allow the lid to drop down. The compartment will be illuminated when open.

If the compartment is left open the light will extinguish approximately 40 minutes after the ignition has been set to position '0'.

The glove compartment can be locked using an ignition key.

Rear Sun Blind (Where fitted)



The electrically operated rear sun blind is fitted to the parcel shelf.

Push the switch to raise the sun blind.

To lower the sun blind, push the switch again.

Engine Starting

Before Starting

Before starting the engine, new owners/drivers should familiarize themselves with the layout and operation of the controls and instruments.



WARNING:

Before attempting to start the engine, check parkbrake is ON and gear selector lever (automatic transmission) is in position 'P' or 'N' or (manual transmission) in Neutral.

Automatic transmission

When the vehicle is stationary the automatic gear selector may be left in 'D', '2', '3' or '4', unless the vehicle is to be parked. When stopping for traffic lights, junctions etc., either select 'P' or apply the parkbrake and select 'N'.

Manual transmission

When the vehicle is stationary it is advisable to apply the parkbrake and to move the gear selector to the Neutral position.

Starting a petrol engine

The engine cannot be started until the automatic transmission gear selector is in 'N' or 'P'.

Insert the key into the ignition switch and turn clockwise to position 'II' to switch on the ignition.

When the key is turned to position 'III' the starter motor will turn the engine until:

- The key is released and automatically returns to position 'II'.
- The ignition switch is turned to '0' or 'I'.

- The gear selector is moved out of 'P' or 'N' (automatic transmission vehicles).
- The engine starts.

Do not use the starter continuously for longer than six seconds. Continued use of the starter will discharge the battery and may damage the starter mechanism.

When the engine starts, release the key. Wait until the engine stops turning before re-using the starter.

The red charge warning light in the instrument cluster should go out when the engine is running.

If the engine fails to start

If an ignition key is placed in the ignition switch and turned to position 'II' and the alarm security light is flashing, it is possible that the engine will not start. In any event, please contact a Jaguar Dealer /Authorised Repairer to investigate the cause of the light flashing.

It is possible that the fuel system inertia switch may have tripped, see page 169 for the resetting procedure.

If the engine persistently fails to start and flooding is suspected, depress the accelerator pedal fully, hold it in this position and turn the key to position 'III' for six seconds. Release the key, remove your foot from the accelerator pedal and then attempt to restart the engine.

Note: *The engine cannot start whilst the pedal is fully depressed, it must be released to enable the engine to start.*

If the engine still fails to start, switch the ignition OFF and contact a Jaguar Dealer/ Authorised Repairer.

Engine Starting

Stopping a petrol engine and locking the steering

Turn the key from position 'II' to the 'lock' position '0'. This turns off the ignition and stops the engine. The steering will be locked when the key is removed from the switch.

Leaving the key in position 'I' or 'II' will discharge the battery.

Starting a Diesel Engine



Insert the key into the ignition switch and turn clockwise to position 'II'. Ensure the glow plug indicator light illuminates.

Once the light has extinguished, depress the clutch and do not touch the accelerator pedal. Turn the key to position 'III' to turn the starter motor. Continue to operate the starter motor without pausing, until the engine starts. Once the engine has started, release the key, which will return to position 'II'.

If the engine stalls or fails to start, the key must be turned to position 'I' before attempting to restart.

At extremely low temperatures it may be necessary to crank the engine for up to 30 seconds.

Caution: Do not let the engine run under full load immediately after starting. Give the lubricating oil time to reach the oiling points to prevent damage to the engine.

Stopping a diesel engine and locking the steering

Release the accelerator pedal. Wait until the engine has reached idle speed, then turn the key from position 'II' to the 'lock' position '0'. This will turn off the engine. The steering will be locked when the key is removed from the switch.

Caution: Do not depress the accelerator pedal. If the engine is switched off at high speed, the turbocharger will continue running after the engine oil pressure has dropped to zero. This will cause premature wear of the turbocharger bearings.

Leaving the key in position 'I' or 'II' will discharge the battery.

Caution: Especially after driving at high engine speeds for any length of time, it is important to let the engine run for a time (1 minute) while stationary before switching it off. This allows the turbocharger turbine blades to cool off, while lubrication is still being fed to the turbocharger bearings.

Engine Starting

Parking the vehicle

When leaving the vehicle, remember the following:

- Whenever the vehicle is being parked, apply the parkbrake and, with automatic transmission, move the gear selector to Park '**P**'.
- Do not leave children or pets in the vehicle unattended.
- Do not leave luggage or valuables on view. Always take your valuables with you or lock them in the luggage compartment.
- Remove the ignition key and spare keys, even when the vehicle is in your garage.
- When the vehicle is unoccupied, close all windows and lock all doors securely.
- Park the vehicle where it can be seen. At night, park in a well-lit area.
- When leaving the vehicle unattended, for maximum security ensure that the doors are double-locked (where fitted).
- Ensure that the keys and the key transmitters are removed from the vehicle before locking the doors, and that all doors, the luggage compartment and the bonnet are closed.

Transmission

Automatic Transmission

The 'J'-gate gear selector lever is designed to accommodate two different driving techniques as follows:

- Automatic selection – the right-hand side of the selector gate.
- Manual selection – the left-hand side of the selector gate to individually select 5th, 4th, 3rd, or 2nd gear.

Gearshift interlock

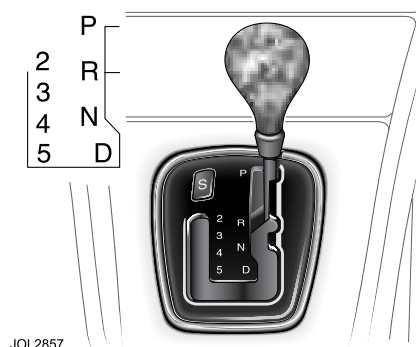
(automatic transmission only)

A brake pedal/gearshift interlock system is incorporated in the automatic gear selector mechanism.

To move the gear selector from Park:

1. Turn the ignition key to position 'II' or start the engine.
2. Press the brake pedal.

Gear Selector Positions



WARNING:

The parkbrake or brake pedal must be applied before selecting forward or reverse drive from a stationary position.

P = Park – Use when parking. In this position the transmission is locked. Do not select if the vehicle is moving.

N = Neutral – Disconnects the driveline from the engine. Use the parkbrake when stopping temporarily.

R = Reverse – Do not select if the vehicle is moving forward.

The reversing lights come ON automatically when reverse gear is selected and the ignition switch is in position 'II'.

D = Drive – All six gears are changed automatically as required by the throttle position and road speed.

2, 3, 4, 5 = Second, third, fourth, fifth – If selected, the transmission operates automatically but will not engage gears higher than the one selected.

Note:

- After selecting forward or reverse drive ranges from Neutral or Park, wait briefly for the transmission to engage before accelerating.
- V8 engines are limited to a maximum speed of 4500 rev/min when Neutral or Park is selected.
- V6 engines are limited to a maximum speed of 7000 rev/min, no matter which position the gear selector is in.

Transmission

- *Diesel engines are limited to a maximum speed of 5000 rev/min, no matter which position the gear selector is in.*

Drive to fifth

When driving in gear position 'D' with sixth gear engaged, the gear selector can be shifted sideways across the gate to '5'. Provided that the vehicle's speed is not too great, the transmission will shift down to fifth. Sixth gear will be inhibited until the gear selector is moved back to 'D'.

Hill climbing and engine braking

When driving on roads with long downhill gradients, selecting '3' or '2' (depending on road/traffic conditions) will give engine braking.

When the gear selector is moved from 'D', '5', '4' or '3' down to '2', downshift to second gear will only take place at road speeds below 64 km/h (40 mph).

Shift inhibit

Reverse is inhibited when the vehicle is moving forward at speeds above 8 km/h (5 mph).

Note: Reverse inhibit will not function in limp-home mode.

Kickdown

Kickdown is operated when the accelerator pedal is pressed fully down, beyond the normal operating spring pressure, to provide maximum engine performance. Kickdown is used in circumstances where rapid acceleration is required, such as when overtaking.

Kickdown causes the transmission to change down to the lowest gear possible to achieve maximum acceleration. The gear engaged depends on the road speed at the time of kickdown.

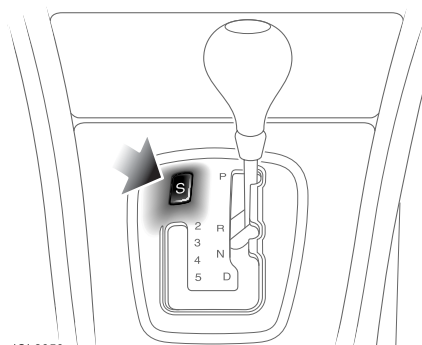
As well as shifting down, the gearshift points are extended to give greater performance. This mode is in effect for as long as the pedal is fully pressed down.

Limp-home mode

In the unlikely event of an electrical or mechanical failure, transmission operation will be impaired. The vehicle gear selector ranges 'P', 'R', 'N', 'D' can still be used to enable the vehicle to be driven to a safe area.

The driver should be aware that the vehicle's performance will be reduced and must take this into account when driving. In this event consult a Jaguar Dealer/Authorised Repairer **immediately**.

Sport mode



The switch marked 'S' on the 'J'-gate surround enables the driver to select either normal 'N' or sport 'S' modes.

Transmission

When sport mode is selected the automatic transmission will operate normally, but the gearshift points are extended to make full use of the engine's power reserves.

To select 'Sport', press the switch. A red light within the switch is illuminated to indicate that sport mode has been selected.

To cancel 'Sport', press the switch again.

Note: Both sides of the 'J'-gate can be used irrespective of the transmission mode, e.g. with 'S' selected the transmission can be operated in full automatic or by manual selection.

In addition to the 'switched' transmission modes ('N' and 'S') the transmission control module will select shift patterns to suit specific conditions.

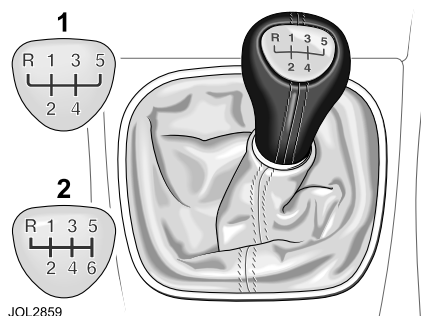
Cruise control – When cruise control is operating at set speed the transmission selects a shift pattern to suit cruise control operation.

Dynamic stability control (DSC) – When DSC is switched ON and the system is activated, the transmission selects a shift pattern to suit traction control conditions.

Gradients – When the vehicle is being driven on roads with uphill gradients, the transmission adapts the shift pattern to make better use of engine power and aid engine cooling.

Under the conditions described above, the relevant transmission mode will override the 'N' or 'S' modes selected by the driver. When such conditions no longer exist, e.g. Cruise control switched OFF, the transmission will revert to the shift pattern previously selected by the driver, i.e. 'N' or 'S'.

Manual Transmission



Gear Selector Lever

A diagram of the gearshift pattern is set in the top of the lever knob, petrol engine (1), diesel engine (2).

Depress the clutch pedal completely when changing gear. To avoid excessive clutch wear do not drive with your foot resting on the clutch pedal.

To select reverse gear, move the gear lever fully to the left-hand side of the gate, against spring pressure and push it forward.

Caution: Do not select reverse gear while the vehicle is moving forwards.

Braking System

Anti-lock Braking System (ABS)

This system helps to prevent the road wheels from locking and skidding during emergency braking, assisting the driver to maintain full steering and directional stability.

The factor controlling ultimate stopping distance and cornering ability is tyre/road adhesion.



WARNING:

- **It remains the driver's responsibility to drive safely according to prevailing conditions.**
- **The fact that a vehicle is fitted with ABS must never allow the driver to be tempted into taking risks which could affect his/her safety or that of other road users.**
- **The addition of ABS cannot overcome the consequences of trying to stop in too short a distance, cornering at too high a speed, or the risk of aquaplaning.**
- **The driver should always take road conditions into account. A slippery road surface always requires more braking distance for a given speed, even with ABS. A possible increase in stopping distance compared to locked wheels may occur during ABS operation on slushy snow, gravel, sand, or some heavily corrugated or ridged warning sections of road surfaces.**

ABS optimises tyre/road adhesion under maximum braking conditions though it cannot provide increased cornering ability.

There is no need for special braking techniques, such as 'pumping' the brakes, to achieve optimum braking distances and control on poor or slippery road surfaces. Tyres must be in good condition to achieve maximum adhesion.

During normal braking the ABS will not be activated. However, if the braking force applied begins to exceed tyre/road adhesion the ABS will automatically activate, preventing the road wheels from locking.

In these circumstances a pulsating effect will be felt from the brake pedal indicating that the system is functioning. The pulsating effect is due to small fluctuations in pressure supplied to the brakes by the system to maintain full tyre/road adhesion.

Under severe braking on some road surfaces tyre noise may be apparent even though the wheels will at no time become locked.

ABS monitoring

The ABS control module monitors the ABS electrical system from ignition switch ON to ignition switch OFF. Any malfunction will be indicated by the anti-lock warning light coming on.

Should a fault develop in the ABS system, the brake system will still operate conventionally and with the same standard of performance as vehicles not equipped with ABS.

Caution: Consult a Jaguar Dealer/ Authorised Repairer immediately if the warning light comes on while driving, a system failure is indicated.

Braking System

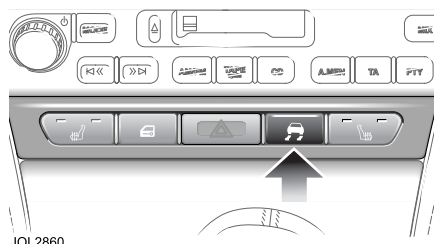
Advice on ABS braking techniques

For optimum ABS performance these instructions on braking techniques during ABS operation should be followed:

- Do not release brake pressure when the pulsating effect is felt. Maintain a constant pressure until the manoeuvre is completed.
- To familiarise yourself with the feel of the brake pedal during ABS braking, practise an emergency stop procedure, always making sure it is safe to do so. With the seat belts fitted to all occupants, drive the vehicle at 32 km/h (20 mph) and brake sharply.
- ABS enables the driver to steer around obstacles during emergency braking. However, the consequences of turning sharply at high speed cannot be overcome by the ABS.
- Do not attempt to 'pump' the brakes to avoid skidding as this can interfere with the ABS operation. The ABS will not allow the wheels to skid under normal road conditions.
- The ABS will tend to keep the vehicle straight during braking. Because braking distances may increase under certain road conditions, it is necessary to plan and make turning manoeuvres as early as possible.

Stability Control

Dynamic Stability Control (DSC)



Dynamic stability control is operational whenever the engine is running, unless it has been switched off. If the system is operating, the warning light in the instrument cluster will flash.

The DSC system controls the anti-lock braking system (ABS), traction control and yaw control of the vehicle.

Yaw control determines the vehicle's direction relative to the driver's inputs (sideslip and under/oversteer). It applies braking pressure to individual wheels if excessive variation is detected. This ensures that the vehicle follows the driver's intended direction of travel.

Traction control will intervene to prevent wheel spin, by automatically reducing the power output from the engine and applying braking to individual wheels.

This improves acceleration, particularly on surfaces with uneven friction, for example, one wheel on ice the other on tarmac.

ABS helps to prevent the road wheels from locking and skidding during emergency braking. When the system is operating, the warning light in the instrument cluster will flash.

The dynamic stability control system can be switched OFF by pressing the switch on the centre console. The warning light in the instrument cluster will remain on and, if fitted, a message will be shown to indicate that the system has been switched OFF. If the switch is pressed again the system will switch ON.

Note: If cruise control is engaged it will automatically disengage if stability control activates.

A system malfunction is indicated by the message 'DSC NOT AVAILABLE' in the message centre and an amber warning light.

The instrument cluster warning light will also be lit.

It is safe to drive the vehicle but the system may not activate under wheel spin or slide conditions. Report the fault to a Jaguar Dealer/Authorised Repairer as soon as possible.



WARNING:

- **The fact that the vehicle is fitted with dynamic stability control must never allow the driver to be tempted into taking risks which could affect his/her safety or that of other road users. In all cases it remains the driver's responsibility to drive safely according to the prevailing conditions.**
- **It is recommended that when using snow chains, DSC should be switched OFF.**

When DSC is switched ON and the system is activated, the transmission selects a shift pattern to suit traction control conditions.

Driving Information

General Driving Information



WARNING:

Ensure the parkbrake is on and the gear selector is in position 'P' or 'N' before attempting to start the engine.

Before driving off, check the gauges and warning lights and messages. Take special note of any warning light that is on.

Seat belts are provided for your safety and it is unwise, and in certain countries illegal, to commence any journey, however short, without wearing them.

In prolonged high speed conditions above 30°C (86°F) ambient temperature, the vehicle's maximum quoted speed may not be achievable.

Warming Up

Do not operate the engine at high speed when first started but allow time for the engine to warm up and the oil to circulate.

Engine Braking on Downhill Gradients

When driving on mountain roads with long downhill gradients it is advisable to select a low gear.

Running-in

Apart from a few precautionary recommendations, there are no strict 'running-in' procedures for this vehicle.

By observing the following advisory notes you will ensure maximum engine, transmission and brake life for your vehicle:

- Allow the engine to warm up thoroughly before operating at engine speeds over 3500 rev/min.
- Vary the speed frequently.

- From 1500 kilometres (940 miles) onwards, gradually increase performance of the vehicle up to the permitted maximum speed.

Running-in for brakes

To ensure that the brake pads can 'bed-in' evenly and reach their optimum wear and performance condition, usually within 480 kilometres (300 miles), the following points are recommended.

- Where possible, avoid heavy braking or rough usage of the brakes as this can result in damage being caused to the brake pads and discs.
- Avoid prolonged use of the brakes, for example, when descending severe gradients.
- Frequent light application of the brakes is desirable. This helps to fully 'bed-in' the brake pads before the normal running-in period is completed and the vehicle is operated at high speeds, when maximum brake efficiency will be required.

The above equally applies when new discs or pads have been fitted.

Use of Headlights in Daylight

When visibility is poor the headlights with dipped beam setting should be switched on so that the vehicle may be seen more easily by other road users. The instrument illumination dimmer control adjusts the brightness of the panel lighting.

Engine Oil Consumption

A certain amount of oil consumption is normal. The rate of consumption will depend on the following:

- The quality and viscosity of the oil.

Driving Information

- The amount of oxidation and dilution of the oil.
- Climatic conditions.
- The speed at which the engine is being operated.
- Road conditions.

Drivers should expect above normal consumption when the engine is new, and after running-in if high speeds are sustained.

Winter Driving

Freeing a frozen door lock

Caution: Do not apply a proprietary lock de-icer through the keyhole.

Should the lock become frozen, warm the end of the key before use.

Windscreen wiper blades

Before driving away, clear any ice from the windscreen and check that the wiper blades are free. Switching on the heated screen will accelerate this process.

Frost precautions

The correct concentration of coolant must be maintained at all times when 'replenishing' or 'refilling' the cooling system.

Touring

Foreign travel

Before planning foreign travel, check with a motoring organisation to ensure that your vehicle will comply with legal requirements of the countries you intend to visit.

It is advisable to carry vital spare parts to ensure serviceability in a remote area.

International motoring organisations are helpful for all aspects of long distance touring advice.

In some countries it is a legal requirement to carry spare vehicle bulbs.

First aid kit

A first aid kit is compulsory equipment in certain countries. Your Jaguar Dealer/Authorised Repairer can supply a first aid kit.

Fire extinguishers

Many countries make it compulsory to carry a fire extinguisher. Your Jaguar Dealer/Authorised Repairer can supply and fit one, see page 194.

Fuel in containers

Some countries forbid the carrying of fuel in containers, as do most ferry and hovercraft operators.

Cellular radio telephones

Ask your motoring organisation about the use of cellular radio telephones before travelling abroad, as some countries exercise controls on the importation and use of such equipment.

Roof-rack

The Jaguar approved roof-rack should be used.

The maximum load, including the weight of the roof rack, must not exceed the load rating indicated on the roof-rack bars and must be deducted from the vehicle maximum luggage load. Do not exceed the roof load capacity (refer to page 228).

Driving Information

When carrying items on the roof, make sure the load is distributed evenly. It is advisable to place heavier items as low in the vehicle as possible. Make sure items placed on the roof do not obstruct the sunroof.

Always ensure that items are securely fastened to the roof-rack or load carrier, to avoid the load from shifting.

Loads on the roof-rack may affect vehicle handling, especially in crosswinds or when cornering. Where possible, avoid heavy braking and sudden acceleration.

Jaguar warning triangle (Where fitted)

A warning triangle to give traffic advanced notice of a disabled vehicle is compulsory in many countries. A triangle, designed to international standards, is standard equipment in certain countries.

Hazard warning lights must be used with the warning triangle.

The warning triangle with its stand legs folded flat, is mounted on the inside of the luggage compartment lid.

In an emergency, remove the triangle and unfold its stand legs. Place the triangle in the road in accordance with local traffic regulations to give oncoming traffic warning of an immobilised vehicle.

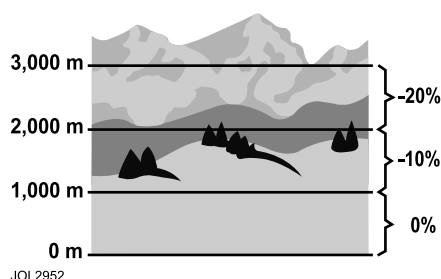
Towing a Caravan or Trailer

Your Jaguar Dealer/Authorised Repairer and the main motoring and caravanning organisations can advise you on towing and towing weight capacities and about regulations that apply in other countries.

The following are important points of safety, stability and comfort upon which further advice should be sought:

- Maximum braked towing weight is permissible, provided long periods of uphill driving on gradients over 8% are not undertaken.
- In high altitude mountainous regions, the thinner atmosphere can reduce engine performance. Above 1000 metres (3280 feet) the stipulated maximum permitted gross train weight must be reduced by 10% for every 1000 metres (3280 feet) in altitude.

Example: Driving on a mountain road of a maximum of 2,400 metres (7874 feet) means a reduction of the gross train weight by 20%. See illustration.



- The kerbside weight of the vehicle can be found on page 227.
- When towing, the nose weight of the caravan or trailer and the tow-bar assembly must be deducted from the permissible maximum load (see page 228).

Driving Information

- When towing at the maximum permissible rear axle load keep within legal towing speeds but in any case do not exceed 100 km/h (62 mph). Increase tyre pressures to 250 kPa (39 lbf/in², 2.5 bar, 2.55 kg/cm²).
- The recommended maximum tow-ball nose weight is shown on page 228. Having a lower nose weight or exceeding the maximum nose weight limit may impair the vehicle's handling.
- When towing with a vehicle with automatic transmission it is advisable to keep the transmission selected to 'D', normal driving mode, do not select 'S' Sport mode.
- It is essential that only a Jaguar tow-bar and Jaguar electrical tow-bar kit are supplied and fitted by a Jaguar Dealer/Authorised Repairer.
- Avoid heavy braking. As the overrun brake on the caravan or trailer is not connected to the ABS, heavy caravan or trailer braking could critically affect the stability of the outfit as a whole.
- Ensure that the towing vehicle's engine, transmission, suspension, brakes and tyres are fully efficient and regularly serviced. Similarly check the wheels, tyres, brakes and wheel bearings of the caravan or trailer.
- Adjust the headlight level to avoid dazzling other road users.

Caution:

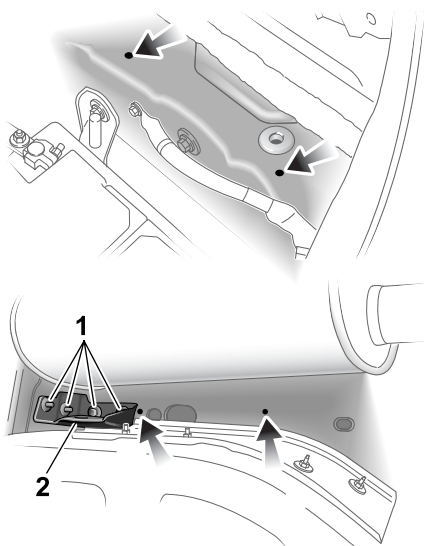
- **Using electrical kits not specifically designed for this Jaguar will damage the electrical system of the vehicle.**
- **When not in use, it is recommended that the removable tow-ball is either securely stowed in the luggage compartment or, preferably, not in the vehicle. Do not leave it loose in the vehicle.**

Diesel models

After towing a caravan or trailer in a hill climb for extended periods, in ambient temperatures above 30°C (86°F), allow the car to idle for five minutes before switching the engine off. This will aid engine cooling.

Driving Information

Tow-bar fixing points

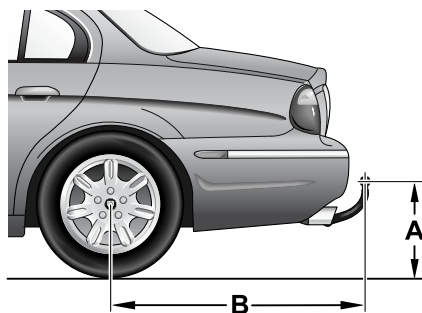


JOL2906

The left and right-hand rear longitudinal members are factory pre-marked for drilling for tow-bar mountings. On each side, there are two upper drilling points (accessed from inside the luggage compartment) and two lower drilling points (accessed from the underside of the vehicle). The illustration shows the right-hand side upper and lower drilling points, indicated by arrows.

The left and right-hand rear tie-down brackets are fixed to the body by four bolts (1).

When the towbar is fitted, bracket (2) is discarded.



JOL2907

Tow-ball centre height from the ground at Gross Vehicle Weight (GVW):

(A) = 370 mm to 382mm (14.57 to 15.2 inches).

Tow-ball centre distance from centre line of rear axle:

(B) = 1165 mm (45.87 inches).

Fuel and Refuelling

Safety Precautions

Before refuelling, switch off the ignition and remove the key.

Note: Do not leave the ignition key in the vehicle; vehicles have been stolen from garage service/filling stations whilst the driver is absent from the vehicle. It is recommended that the vehicle is locked, if left unattended.

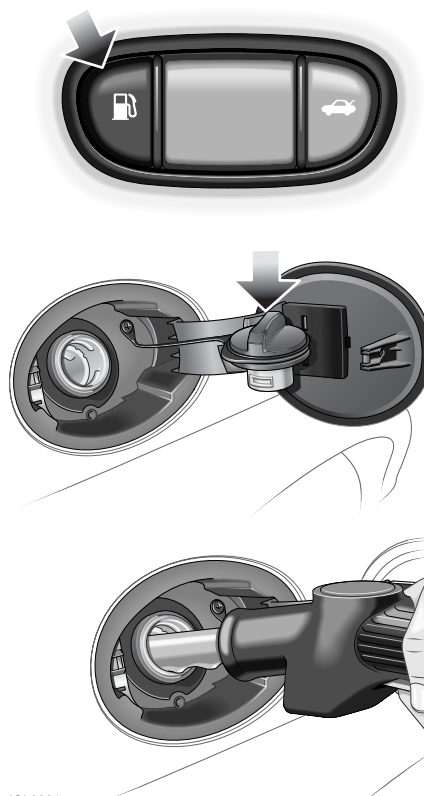
Caution: Do not put additives of any kind (fuel or oil) in the fuel tank. Additives could reduce engine life or affect exhaust emissions.



WARNING:

- Fuel vapour is highly flammable and in confined spaces is explosive and toxic. In the event of inadvertent spillage, and before refuelling, always switch OFF the engine. Do not use exposed flame or light. Do not smoke. Do not inhale fumes.
- Do not fill the tank so that fuel is visible in the fuel filler intake tube. This could cause spillage and danger from exposed fuel.

Fuel Tank Filling



JOL3204

The fuel filler flap release switch is located in the knee bolster switchpack below the fascia. The filler flap is on the right-hand side of the vehicle.

To remove the filler cap, turn it anti-clockwise approximately a $\frac{1}{4}$ turn, until a slight resistance is met, continue turning to release it. Remove the cap from the filler neck.

Fuel and Refuelling

If the vehicle is fitted with a diesel engine, a label on the inside of the fuel filler flap serves as a reminder to fill the tank with the correct fuel.

Note: *Vehicles with a diesel engine have a yellow filler cap.*

The cap, which is held by a retaining strap, can be stowed on the hook on the flap to allow easy access to fill the tank.

When filling, the dispenser nozzle must be inserted into the filler neck sufficiently to open the trap door for fuel to flow into the fuel tank. For quickness and to completely fill the tank, ensure that the fuel nozzle rests on the bottom of the filler neck as shown. Fill the tank until the filler nozzle automatically shuts off. Filling beyond this point could result in fuel spillage.

After refuelling, refit the filler cap in the filler neck and twist the cap clockwise until it clicks three times. Close the flap, which automatically locks shut.

The continuous use of high quality fuel makes the need for additional additives unnecessary. This will help to protect the engine components against corrosion, carbon deposit formation and prevent the fuel injection system from clogging.

If in doubt your local Jaguar Dealer/ Authorised Repairer will advise on which fuel must be used in your vehicle.

Emission control components

Owing to the legislative requirements or options available in some countries, a Jaguar Dealer/Authorised Repairer should be consulted where any doubt exists as to the precise emission control system specification of this vehicle.

Fuel Capacity

Avoid the risk of running out of fuel and never intentionally drive the car 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.

Petrol engines:

Total tank capacity	69.5 litres (15.3 Imp. Gallons)
Fill capacity (when the fuel gauge indicates empty)	64.0 litres (14.1 Imp. Gallons)
Reserve capacity (when the fuel gauge indicates empty)	5.5 litres (1.2 Imp. Gallons)

Diesel engines:

Total tank capacity	65.5 litres (14.4 Imp. Gallons)
Fill capacity (when the fuel gauge indicates empty)	60 litres (13.2 Imp. Gallons)
Reserve capacity (when the fuel gauge indicates empty)	5.5 litres (1.2 Imp. Gallons)

Fuel and Refuelling

Fuel Requirements – Petrol Engines

The filler neck of the fuel tank is a small diameter (except in Japan) to suit the unleaded fuel pump nozzle and will prevent the larger diameter leaded fuel nozzle from entering the filler neck.

Caution: Vehicles with petrol engines must only be filled with 'Unleaded Fuel'. Leaded fuel will damage the catalytic converters.

Unleaded fuel

All vehicles are fitted with a catalytic system and can only use unleaded fuel.

Unleaded fuel must be used for the emission control system to operate properly. Its use will also reduce spark plug fouling, exhaust system corrosion and engine oil deterioration.

The preferred fuel should have an octane rating of at least 95 RON (Research Octane Number).

'Super Green' Plus 98 RON unleaded fuel (where available) may be used as an alternative to the standard 95 RON unleaded fuel.

Some countries have only 91 RON fuel available. The vehicles in these countries are specially calibrated to use this fuel.

Using unleaded fuel with an octane rating lower than recommended can cause persistent, heavy 'spark knock' (a metallic rapping noise). If severe, this can lead to engine damage.

If a heavy 'spark knock' is detected even when using fuel of the recommended octane rating, or if you hear steady 'spark knock' while holding a steady speed on level roads consult a Jaguar Dealer/Authorised Repairer to have the problem corrected. Failure to do so is misuse of the vehicle, for which Jaguar Cars Limited, is not responsible. However, occasional light 'spark knock' for a short time while accelerating or driving up hill, may occur.

Fuels containing alcohol

Caution: Take care not to spill fuel during refuelling. Fuel containing alcohol can cause paint damage, which may not be covered under the warranty.

Some fuel suppliers sell fuel containing alcohol without advertising its presence. Where uncertainty exists check with the service station operator.

Note: *Some difficulty in starting may be encountered when using alcohol blended fuel.*

Ethanol

Fuels containing up to 10 per cent ethanol (grain alcohol) may be used. Ensure 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.

Fuel and Refuelling

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 that contain more than three per cent 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 Jaguar Cars Limited, 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 the ratio of MTBE to conventional fuel does not exceed 15 per cent.

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 designed to further reduce vehicle emissions.

Jaguar fully supports all efforts to protect and maintain ambient air quality and encourages the use of reformulated gasoline where available.

Fuel Requirements – Diesel Engines

Use only high quality diesel fuel according to specification EN 590 or equivalent.

Caution: Do not use RME (bio diesel) except in the case of those proprietary diesel fuels which contain a mix of up to 5%. Jaguar can accept no responsibility for damage caused by using RME in concentrations greater than 5%.

Prolonged use of additives is not recommended. Do not add kerosene/paraffin or petrol to diesel fuels.

Caution: If you inadvertently fill your vehicle with petrol instead of diesel, do not attempt to start the engine.

Contact your Jaguar Dealer/ Authorised Repairer immediately. Attempting to start the engine with petrol in the fuel tank will cause extensive damage to the engine and fuel system, which will not be covered by your Jaguar warranty.

Jaguar Cars Limited can accept no responsibility for any damage caused by running your vehicle with petrol or vegetable oil in the fuel tank.

Winter grade diesel fuel

To ensure reliable diesel engine operation during cold seasonal periods, Winter grade fuel must be used. This fuel is normally available from fuel retailers during these periods and the fuel companies adjust the fuel quality to suit climatic conditions.

If the vehicle is not filled with Winter grade diesel fuel, it is recommended that the engine is idled for a period of over two minutes after starting to prevent fuel solidification during operation.

Fuel and Refuelling

Running Out of Fuel (Diesel Models only)

Vehicles with diesel engines are equipped with a system to prevent the fuel tank from emptying completely. When the fuel reaches a minimum level, the system will activate a reduced power mode (i.e. the engine will not run properly). This will be followed by the engine stopping in approximately 1.6 km (1.0 mile).

This feature prevents the fuel system from running dry, which could cause damage to the vehicle. If the gauge indicates low fuel or the warning light illuminates, the fuel tank should be refuelled as soon as possible at the next filling station with at least 4 litres (0.87 Imp Gallons) of fuel.

If the system protection function has activated, the vehicle must firstly be refuelled, then restarted using the following procedure:

1. Crank the engine for five seconds, then return the ignition key to position '0' (OFF).
2. Turn the ignition key to position 'II' (ON). Crank the engine. The engine should start within approximately five seconds.

Note: If the engine does not start, pause for ten seconds, with the ignition key in the '0' position (OFF), before repeating the procedure from the beginning.

Catalytic Converters

A few precautions on the use of vehicles fitted with catalytic converters are necessary. These are:

- In order to maintain the efficiency of the emission control system it is essential that the correct fuel is used. If the vehicle is fitted with a petrol engine, never refuel with leaded fuel: this will seriously damage the catalytic converters. If the vehicle is fitted with a diesel engine, use only high quality diesel fuel to specification EN 590 or equivalent.
- Heavy impact on the converter casings must be avoided.
- A correctly tuned engine optimises exhaust emissions, performance and fuel economy. It is recommended that the vehicle is regularly maintained.
- The engine settings must not be altered; they have been established to ensure that the vehicle will comply with stringent exhaust emission regulations. Incorrect engine settings could cause unusually high catalytic converter temperatures and thus result in damage to the converter and vehicle. If adjustment to the settings is considered necessary, this should be performed by a Jaguar Dealer/ Authorised Repairer.

Fuel and Refuelling

- Do not continue to operate the vehicle if any engine malfunction is evident; malfunctions should be rectified immediately. For instance, misfire, loss of engine performance, excessive oil consumption or engine run-on may lead to unusually high catalytic converter temperatures and may result in damage to the converters and vehicle.
- The use of catalytic converters increases exhaust system temperatures, therefore, do not operate or park the vehicle in areas where combustible materials such as dry grass or leaves may come into contact with the exhaust system.
- Do not run a petrol engine with either a spark plug lead disconnected or a spark plug removed. Do not use any device that requires an insert into a spark plug hole in order to generate air pressure e.g. tyre pump, paint spray attachment etc., as this could also result in catalytic converter damage.
- The vehicle is designed for normal road use. Below are examples of abuse which could damage the catalytic converters and vehicle:
Competition or off-road use.
Excessive engine speed.
Overloading the vehicle.
Switching off the engine whilst in gear.
These may lead to a dangerous condition due to excessively high catalytic converter temperatures.

Climate Control

Climate Control

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L

Climate Control

Introduction

The cabin is supplied with filtered air from a fully automatic electronic climate control system which also provides individual selection of temperature (dual zone) by the front occupants.

The system can be overridden by manual controls.

The climate control panel is located in the centre console above the radio and audio controls. There are two variants:

- A dedicated control panel with LCD (liquid crystal display) screen, refer to page 162.
- A multi-function touch control and display unit shared with navigation and other systems (See the touch-screen display handbook).

Recommended Operation

Automatic climate control

Automatic climate control provides efficient regulation of the vehicle environment without constant adjustments from the occupant.

Sensors inside the vehicle monitor temperature, humidity and direct sunlight. In response, the electronic control system automatically adjusts the heat input, blower speed, air intake and airflow distribution so as to maintain the selected temperature(s) and reduce misting.

Automatic operation provides optimum comfort under most driving conditions.

It is recommended that automatic control (AUTO) is selected as the normal operating mode.

Use of air conditioning

Air conditioning is an integral part of the climate control system, providing cooled and dehumidified air for occupant comfort; the dry airflow is also effective in preventing misting of the windows.

While the air conditioner can be manually switched off, it is recommended that it is used in all climatic conditions throughout the year, preferably in **AUTO** mode.

Close all windows and the sunroof when the air conditioning is on to ensure satisfactory operation.

Note: When air recirculation is selected, the sound of the airflow will change: this is normal.

Use of air recirculation

The air conditioner/heater system is supplied with fresh air via an intake flap.

Closing the flap causes the air inside the vehicle to be recirculated. This helps to prevent unpleasant odours from being drawn into the vehicle and also to improve the performance of the air conditioner in very hot conditions. However, the use of recirculated air will cause screen misting after a short period and should only be used as necessary.

In **AUTO** mode, the air intake flap is controlled automatically. If required, air recirculation may be manually selected for either a short or indefinite period.



WARNING:

To prevent humidity build up inside the vehicle and possible screen misting, avoid driving with the air conditioning system off or in manual air recirculation for prolonged periods.

Climate Control

General Points

To ensure the satisfactory operation of the climate control system, note the following points:

- Ensure that the external grille at the base of the windscreen, which provides fresh air for the climate control system, is kept clear of leaves, snow or obstructions.
- A solar sensor is mounted on the centre top of the fascia, as shown opposite (1). Ensure that this sensor is not covered.
- Temperature and humidity sensors are located behind the small grille (2). Do not cover or obstruct the opening.
- Air ducts under the front seats supply the rear passenger footwells (see illustration opposite). Objects or material placed under the seats may block or obstruct the open ducts.
- The external air intake to the air conditioner/heater system is fitted with a filter. Ensure that the filter is changed at the specified service intervals to maintain efficient operation.
- If the air conditioning system is not used frequently, it should be run briefly at least once each week, with a cold setting, to prevent the seals from drying out with subsequent refrigerant leaks.
- Moisture removed from the air by the air conditioning unit is discharged onto the road underneath the vehicle. After stopping, puddles of water may form underneath the vehicle: this is normal.

Auxiliary Fuel Fired Heater - Diesel Only

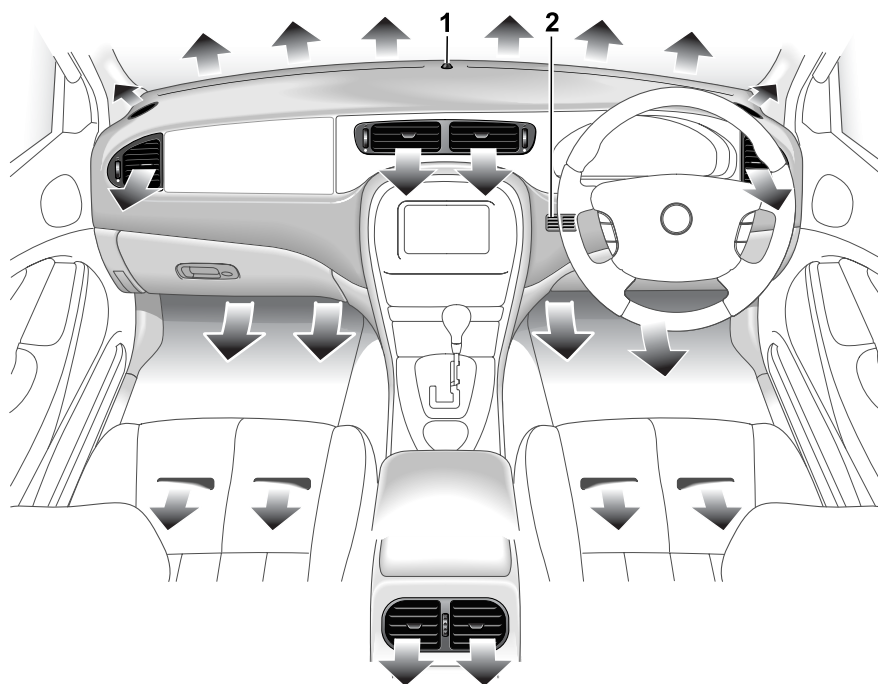
The auxiliary heater aids in warming the engine and interior compartment. It is integrated into the cooling system and is automatically switched on or off depending on the coolant and ambient temperatures, while the engine is running.

It is possible that when the fuel-fired heater is activated, vapour may appear from under the front of the vehicle for a short time. This may be more prevalent when the vehicle is new. This is normal.

Note: *The auxiliary heater will not function if the climate control system is switched off.*

Climate Control

Air Distribution



JOL2863

The illustration above shows the location of the air vents within the vehicle. The airflow from the fascia face level vents is regulated using thumbwheel controls and adjustable direction vanes.

Air distribution between the windscreen, fascia and floor levels is selected automatically when operating in **AUTO** mode but can be selected manually.

Automatic Climate Control

LCD Screen Control Panel



JOL2864

1. Blower speed and system on/off.
2. Display panel.
3. Fahrenheit/Celsius selector.
4. Air conditioner on/off.
5. Select automatic operation.
6. Recirculation/fresh air.
7. Increase right-hand zone temperature.
8. Decrease right-hand zone temperature.
9. Select air distribution.
10. Heated rear screen/door mirrors.
11. Heated front screen (where fitted).
12. Defrost windows.
13. Select dual/single temperature zone.

14. Increase left-hand zone temperature.
15. Decrease left-hand zone temperature.
16. Option without front screen heater.

The climate control functions are selected by push buttons and a rotary control. When a button is pressed, selection of the function is confirmed by a beep; most buttons also have an illuminated LED. Many system functions also have graphic symbols displayed on the LCD (liquid crystal display) screen.

Automatic control (**AUTO**) may be overridden at any time. Defrost/demist operation is available and also manual selection of blower speed, air distribution, recirculation, air conditioning and windscreen heating.

Automatic Climate Control

Panel illumination

With the exterior lighting switched on, the graphics on the panel controls are illuminated by low level backlighting.

The illumination level is adjusted by the common instrument panel dimmer control, refer to page 122.

To Switch the System On

The climate control system operates in position 'II' (run) of the ignition switch.

With the ignition key turned to the run position, the system will switch on in the operating mode last set.

Note: *It is advisable to allow the system to stabilise before making large changes to the temperature setting, particularly at the start of a journey, refer to 'Temperature Selection'.*

For normal usage select **AUTO** mode.

AUTO Mode

Automatic operation provides a controlled environment over a temperature range of 17°C to 31°C (61°F to 89°F) and should be regarded as the normal operating mode.



To select automatic climate control press the **AUTO** button; the word **AUTO** appears on the LCD screen to confirm selection.

Select the required temperature.

Front and rear screen heating and timed air recirculation may be selected in **AUTO** mode. Selecting any other control will cancel **AUTO** operation.

Automatic operation cannot be deselected using the **AUTO** button. To exit **AUTO** mode, select another mode or press the blower control knob to switch the system off.

Temperature Selection



Separate controls allow the driver and passenger zone temperatures to be independently adjusted. Press the red buttons to increase temperature and the blue buttons to decrease temperature.

Both driver and passenger temperatures are always displayed.

Pressing the driver's buttons to select the maximum or minimum temperature settings causes the display to change to HI or LO respectively and cancel **AUTO** mode.

To quickly jump from HI or LO to a convenient midrange temperature of 23°C (73°F), press and hold **AUTO** for a few seconds.

Dual Temperature Zones



With the **DUAL** button LED illuminated, the system provides separate temperature control of the driver and passenger zones.

Press **DUAL** to de-select dual temperature control (LED off); the passenger temperature will change to that of the driver side. Using the driver side temperature control buttons will now change both zone temperatures together.

To select dual temperature control, press either the **DUAL** button or one of the passenger side red/blue temperature control buttons. The **DUAL** LED is illuminated.

Automatic Climate Control

External Temperature

The external (EXT) temperature is displayed at the top of the screen.

Fahrenheit/Celsius Selection



Press the button to change the scale between degrees Fahrenheit (°F) and degrees Celsius (°C) for the displayed internal and external (EXT) temperatures.

Air Recirculation

Timed air recirculation



Press the button briefly to select timed air recirculation.

The fresh air intake is opened and the button LED extinguished at the end of the time out period.

Latched air recirculation



Press and hold the button for a few seconds to select latched air recirculation. Selection is indicated by the screen symbol, two beeps and the button LED flashing four times then remaining illuminated.

Selecting latched air recirculation cancels **AUTO** operation.

To deselect latched air recirculation, press the recirculation button again, or select **AUTO**.



WARNING:

Prolonged operation with recirculation selected in cold, damp conditions could result in screen misting.

Windscreen Defrost/Demist

Frost and heavy misting



To remove frost or heavy misting from the windscreen, press the **DEF** button.

- The blower switches on automatically at maximum speed but the speed can be reduced manually if required.
- Air conditioning switches on automatically (to dehumidify the air) and cannot be deselected.
- Recirculation is cancelled and cannot be selected.
- The front screen heater and the rear screen heater/door mirror heaters switch on automatically, provided the engine is running.

To deselect defrost mode, press **AUTO** (recommended operating mode to maintain a mist-free screen).

Light misting



To prevent or remove light windscreen misting, select manual air distribution to windscreen and feet (see page 165).

Heated Screens and Door Mirrors



The front (**F**), (where fitted) and rear (**R** or **REAR**) screen heaters may be switched on and off in any mode, including system off, but only operate when the engine is running. The door mirror heaters are also controlled by the rear screen heater button.

Automatic Climate Control

The front screen heater (if fitted) switches off automatically after 4 minutes. The rear screen and door mirror heaters switch off automatically after 10 minutes.

The windscreen heaters may be manually deselected during the timed period using the push buttons.

In cold ambient conditions, at the start of a journey, the front and rear screen heaters will switch on automatically for the timed period.

Note: The top three lines of the rear screen pattern are a concealed antenna system and do not defrost the rear screen.

Air Conditioning



Press to switch the air conditioning on or off.

The air conditioning system is controlled automatically in

AUTO mode to maintain the desired temperature and humidity (even if higher temperature settings are selected). Deselecting **A/C** cancels **AUTO** mode.

The air conditioning system is also switched on automatically in defrost mode (**DEF**) in order to dehumidify the air: it cannot be deselected in this mode.

Blower Speed



Set the blower speed as required with the rotary control knob. Blower speed is shown as a series of bars on the LCD screen.

When operating in **AUTO** mode, blower speed is controlled automatically (but not displayed) and any adjustment of the knob will cancel **AUTO** mode.

Note: In **AUTO** mode, the blower only operates at low speed, if heating is required, until the engine is warm.

Manual Air Distribution

Air distribution is automatically controlled in **AUTO** and defrost modes.



Press **MODE** to select manual air distribution. Four air distribution modes are available and are selected in succession by pressing the **MODE** button. A symbol is displayed for the selected mode.



Airflow distributed to the windscreen and feet; select to prevent or remove light misting and when heating the interior.



Airflow directed to foot level; optimum position for heating interior (if warm airflow selected).



Airflow distributed to the face and feet.



Airflow directed at face level only; optimum position for cooling interior (if cool airflow selected).

To Switch the System Off



Press in the blower rotary control knob to switch the climate control system off.

If the blower control knob is pressed again, the system will switch on in the previous mode set.

Automatic Climate Control

Ram Air

With the climate control system switched off, air recirculation is automatically selected (intake flap closed). To select fresh air with the system off, press one of the air distribution buttons.

With the blower switched off, the fresh airflow results from the forward motion of the vehicle (ram air effect).



WARNING:

Selecting ram air (or switching the system off when the windows are closed) may increase the possibility of screen misting due to reduced airflow.

Roadside Emergency

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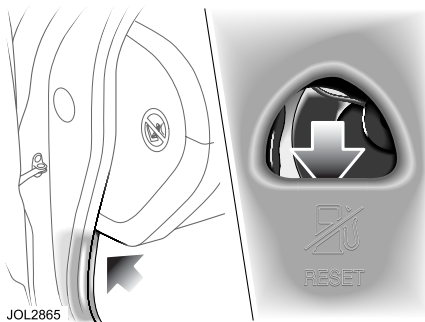
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L

Inertia Switch

Inertia Switch Operation



In the event of an accident, an inertia switch may trip, isolating fuel pump operation. Once the switch has tripped it must be reset before attempting to restart the engine.

The inertia switch is located behind the trim on the left-hand side of the vehicle, forward of the front door post, below the fascia. A finger access hole in the trim allows the driver to reset the switch.

Resetting the switch



WARNING:

To avoid the possibility of fire or personal injury, do not reset the inertia switch if you see or smell fuel.

If no fuel leak is apparent, reset the inertia switch as follows:

1. Turn the ignition switch to position '0'.
2. Press down the rubber reset button on the top of the inertia switch.
3. Turn the ignition switch to position 'II', pause for a few seconds, then return the key to position '0'.
4. Make a further check for fuel leaks.

Emergency Starting

Rolling Start

If the vehicle battery is discharged, inserting the ignition key may not release the electronically controlled steering lock. Also, if the electric parkbrake was applied before the battery was discharged (e.g. vehicle unused for a long period), it will not be possible to release the parkbrake.

In this situation, a manual transmission vehicle cannot be pushed or tow started. If the parkbrake has not been applied, it could be dangerous to attempt to move the vehicle with the steering locked.

Do not push or tow start a vehicle with automatic transmission even with the steering lock and parkbrake released. With a discharged battery it will also not be possible to move the drive selector from the 'P' position.



WARNING:

A vehicle start by pushing or towing must not be attempted because it is possible that the steering lock may not be disengaged. Only jump lead starting or the fitting of a fully charged battery is recommended.

Using Jump Leads

Both the booster and discharged battery should be treated with great care when using jump leads. Always use high quality leads capable of carrying the starter current of the vehicle to be started.

Before commencing, the following precautions must be taken:

- When the battery of another vehicle is being used, ensure that the vehicles do not touch. Alternatively, remove the charged battery and place near to, not on, the vehicle with the discharged battery.
- Ensure that both vehicles have all electrical services OFF, the parkbrakes applied and neutral (manual transmission) or 'P' (automatic transmission) selected.
- Where the jump leads are of a different colour, e.g. red and black, use red for positive (+). This aids identification and helps to avoid crossing positive (+) to negative (-). Take extra care to avoid crossing the polarity when using cables of the same colour.

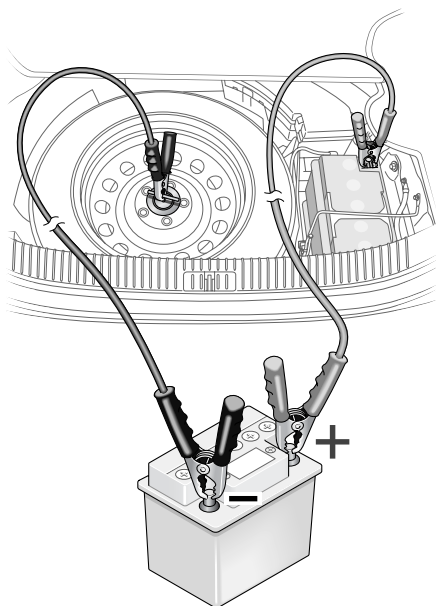
Caution:

- **If using a jump start vehicle, under no circumstances should the vehicles come into contact with each other. This could establish an earth connection, which may cause sparks and damage.**
- **Do not run the jump start vehicle's engine when boost starting a Jaguar vehicle. If the jump start vehicle's engine is running and the jump leads are disconnected, damage to the Jaguar vehicle's electrical system will result.**
- **The booster battery must be of the 12 volt type.**

Emergency Starting

To gain access to the battery, fold the luggage compartment floor panel forward. If a space saver spare wheel is fitted it will be necessary to remove the under floor stowage tray.

Procedure for using jump leads



JOL2866

The following procedure must be followed exactly, being careful not to cause sparks:

1. Unclip the battery positive (+) terminal cover.
2. Attach one end of the red jump lead to the positive (+) terminal of the booster battery and the other end to the positive (+) terminal of the discharged battery. Make sure that a good connection is made.

Caution: Do not connect the negative jump lead directly to the negative (-) terminal of the discharged vehicle.

3. Attach one end of the black jump lead to the negative (-) terminal of the booster battery and the other end to an earth point on the vehicle being started. (If your Jaguar has the discharged battery use only the spare wheel locking stud, as shown.) The earth point must be at least 305 mm (12 inches) from the discharged battery. Make sure that a good connection is made.
4. When started, allow the engine to idle for five minutes before disconnecting the cables.
5. Disconnect the black jump lead from the earth point and the booster battery negative (-) terminal.
6. Disconnect the red jump lead from the positive (+) terminals of both batteries.
7. Refit the positive (+) terminal cover.
8. Refit the luggage compartment floor panels.

After starting the engine, it may be necessary to reset the electric parkbrake (refer to page 132). See also 'After battery reconnection', page 211.

Wheel Changing

Overview

Be prepared for a flat tyre. Know where equipment is stowed and read the wheel changing and jacking instructions carefully.

Pull off the road completely, clear of all traffic and park on as level, solid ground as possible. Switch on hazard warning lights and, where legally required, display the warning triangle.

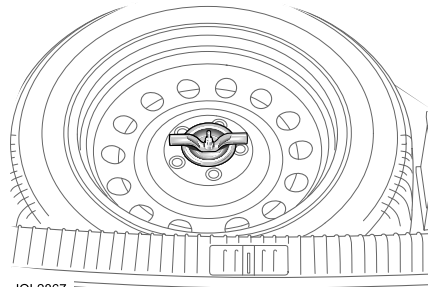
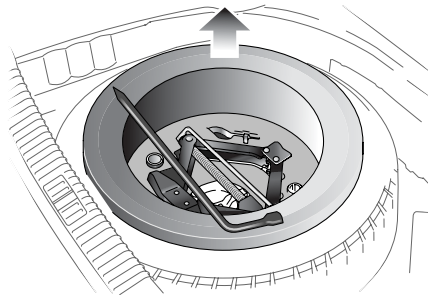
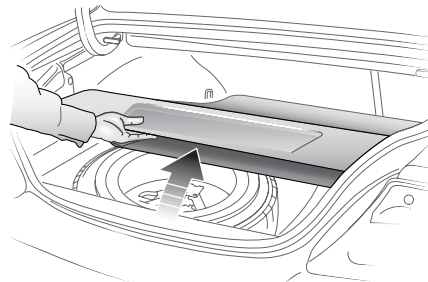


WARNING:

- It can be dangerous to change a wheel when the vehicle is on a slope or soft, uneven ground
- Wheels are extremely heavy. Take care when lifting and particularly when removing and replacing a wheel in its storage position in the luggage compartment.

Spare Wheel Location

The spare wheel and jacking equipment are stored under the luggage compartment floor panel.



JOL2867

To remove the spare wheel, fold the luggage compartment floor panel towards the rear seats. Remove the tray containing the jacking equipment to gain access to the wheel. Unscrew the retaining nut and remove the spare wheel. Remove the jack and wheel nut wrench.

Wheel Changing

Temporary-use Spare Wheel

Observe the following warnings before using the wheel:



WARNING:

- Please note temporary-use spare wheel warning label. Adhere to instructions on the label. Failure to comply can be dangerous.
- When a temporary-use spare wheel is fitted, drive with caution and replace with the specified wheel and tyre as soon as possible.
- Do not fit more than one temporary-use spare wheel and tyre assembly at one time.
- The temporary-use spare wheel must be inflated to the correct pressure.
- Temporary-use spare wheel, maximum speed is 80 km/h (50 mph).

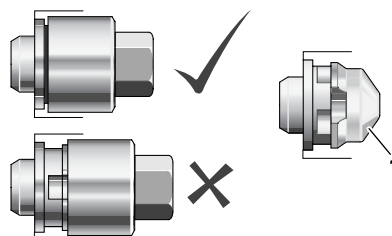
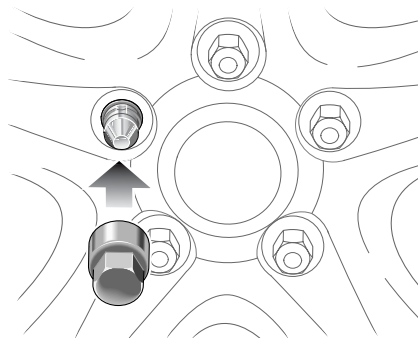
Note: Maintenance information for the temporary-use spare wheel is the same as given for normal tyres. See page 214.

Locking Wheel Nuts

Where Jaguar locking wheel nuts are fitted (one on each wheel), they can only be removed using the correct key socket.

The locking wheel nut comprises two grooved parts, front and rear, which must be turned together to allow the nut to be fitted or removed.

To remove the nut, the front and rear grooves must be aligned. Locate the key socket in the grooves and push it fully over both parts of the nut. Fit the wheel nut wrench over the key socket and loosen the locking wheel nut.



JOL2666

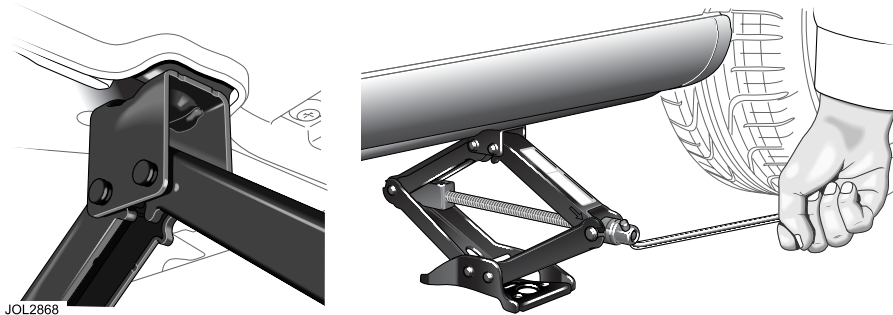
Attempting to remove the nut without the correct key socket (such as attempted theft) or with the socket not located over the rear part of the nut, will cause the front part (1) only to turn.

If this has happened, rotate the front part with the key socket until the grooves are re-aligned and then push the socket fully over the nut.

Should a new key socket be required, contact your Jaguar Dealer/Authorised Repairer. Proof of vehicle ownership will be required.

Wheel Changing

Wheel Changing



1. Ensure that all passengers are in a safe place, clear of the vehicle.
2. Apply the parkbrake and select gear position 'P' (Park) or select a low gear on a manual transmission vehicle.
3. Ensure that the jack is placed on firm and level ground.

Note: When one rear wheel is lifted off the ground the selection of a low gear on manual vehicles or automatic transmission 'P' (Park) position will not prevent the vehicle from moving and possibly slipping off the jack.



WARNING:

- Before attempting to lift the vehicle with the jack, chock the wheel diagonally opposite to the wheel being replaced to prevent the vehicle from rolling when jacked up. A wheel chock is supplied with the jacking equipment for this purpose.
- Never work under the vehicle using only the jack as a support, always use axle stands or suitable supports under the jacking points.

Before raising the vehicle slacken but do not remove the wheel nuts.

Observe the instructions printed on the jack.

Use the jack only for lifting the vehicle during wheel changing, and only use the jack which is stored in the vehicle.

Do not start or run the engine while the vehicle is only supported by a jack.

There are four jacking points, two each side of the vehicle on the underside of the floor. These provide positive location for the jack. The front jacking point is approximately 180 mm (7 inches) from the front wheel and the rear is approximately 280 mm (11 inches) forward of the rear wheel.

The simplest way to correctly locate the jacking point is to feel along the sill panel to the cut-away portion and then fit the jack to the body, not to the sill panel.

Wheel Changing

Caution: Ensure before raising the vehicle that the jack is correctly positioned to avoid any damage to the vehicle sills or sill panels. Use only the correct jacking points, never use bumpers or any other part of the body to lift the vehicle.



WARNING:

- Do not attempt to lift the vehicle unless the jack head is fully engaged in the jacking point.
- Ensure that the parkbrake is applied.

Place the jack squarely beneath the appropriate jacking point. Ensure that the jack head is fully engaged. Carefully raise the vehicle by turning the handle. Stop jacking the vehicle when the tyre just clears the ground. Minimum tyre lift gives maximum vehicle stability.

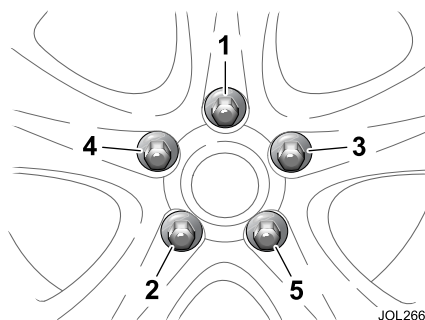
Remove the wheel nuts and the wheel.

When changing the alloy road wheels, transfer the centre badge to the replacement wheel (when a full size spare wheel is used). Using the plastic tipped end of the wheel nut wrench handle from the inside of the wheel, push the centre badge from its housing. Push the centre badge into the replacement wheel. If the temporary-use spare wheel is to be fitted, keep the centre badge safely and fit it to the repaired full size wheel when it has been refitted.

Fit the spare wheel and loosely secure with the wheel nuts.

Using the wheel nut wrench, lightly tighten the wheel nuts alternately using the sequence shown in the illustration.

Tightening the wheel nuts



Lower the jack and tighten the wheel nuts alternately, DO NOT OVERTIGHTEN.

At the earliest opportunity have the wheel nuts tightened with a torque wrench to 125 Nm (92 lb.ft).

This torque must not be exceeded.

Stowing the equipment

Stow the replaced road wheel in the luggage compartment, position the wheel and secure with the retaining nut.

Place the storage tray with the jack and wrench over the wheel.

Reposition the luggage compartment floor panel.

Note: Examine the jack occasionally and clean and grease the threads to ensure it is always ready for an emergency.



WARNING:

When the temporary-use spare wheel has been fitted, drive with caution and replace with the specified wheel and tyre as soon as possible.

Vehicle Recovery

Methods of Recovery

The preferred vehicle recovery method is by using a flat bed transporter or rear suspended tow.

Caution:

- **If the vehicle has defective transmission, to prevent further damage, it must be towed with the rear wheels clear of the ground.**
- **Ensure that the recovery team do not tow with sling-type equipment since damage to the bodywork may result.**
- **Do not tow vehicle by suspending the front end.**

Vehicle failure

The removable towing eye is primarily for emergency use when towing for SHORT DISTANCES, e.g. removing the vehicle if it is causing an obstruction or for winching the vehicle onto a recovery transporter.

To prevent damage to the automatic transmission whilst the vehicle is being towed with the rear wheels on the ground, towing distance must be restricted to 0.8 kilometres (0.5 miles). Towing speed must not exceed 48 km/h (30 mph).

Always obey towing regulations. In certain countries the registration number of the towing vehicle and an 'ON TOW' sign or warning triangle must be displayed in a prominent position at the rear of the vehicle being towed.

When being towed, the vehicle's gear selector lever must be in neutral (position 'N') with the ignition key turned to position 'II' to release the steering lock and render the indicators, horn and brake lights operational.

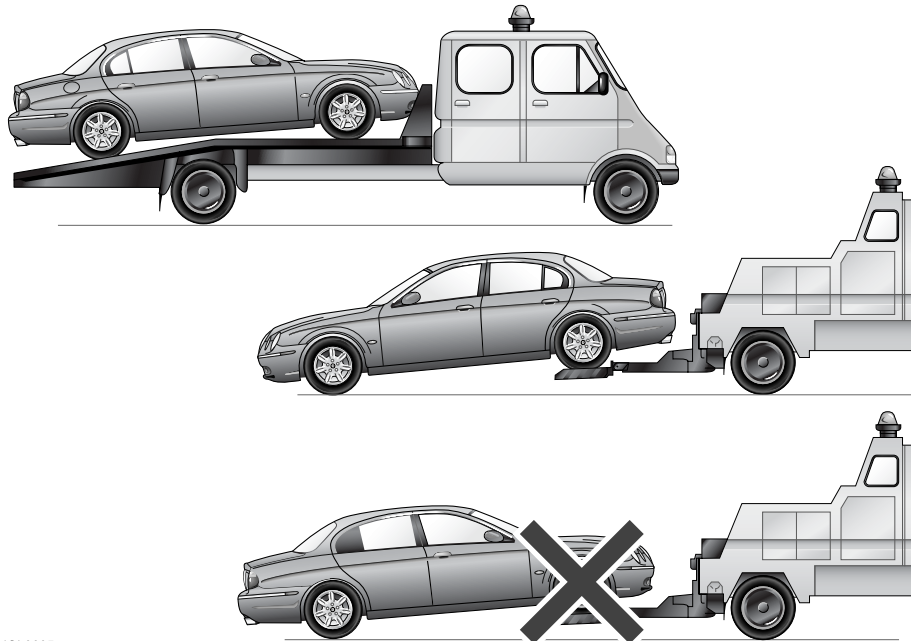


WARNING:

When the engine is not running the steering and brakes will no longer be power-assisted. Therefore, be prepared for relatively heavy steering and the need for greatly increased brake pedal pressure.

Vehicle Recovery

Transporting



JOL3205

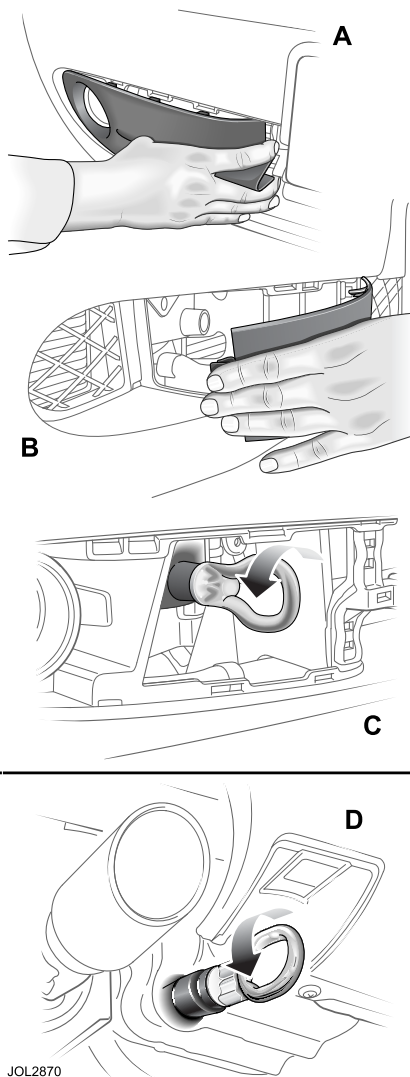
If the vehicle is being transported on a trailer or vehicle flat bed transporter, the parkbrake must be applied, the wheels chocked and the gear selector lever moved to position '**N**' or '**D**' but NEVER to '**P**'.

The vehicle must be securely tied down to the transporter or trailer. Use straps on the front wheels/tyres to secure the vehicle for transportation.

The towing eye is not designed for securing the vehicle during transportation.

Vehicle Recovery

Towing Eye



JOL2870

A screw-in towing eye is provided in the luggage compartment with the jack and can be fitted to the front or rear of the vehicle. The towing eye has a left-hand thread and must be screwed in an anti-clockwise direction when fitting.

Caution:

- The towing eye is not suitable for 'solid bar' towing.
- Care must be taken to avoid damaging the bumpers and front apron.

Front tow point

The front towing point is located behind a plastic cover on the left-hand side of the vehicle (as viewed from the front).

To remove the cover (**A**), press the plastic cover to the left to unclip. Remove the cover.

On 'R' performance vehicles, press the plastic cover (**B**) to the right to unclip. Remove the cover.

Screw the towing eye into the vehicle, right up to the shoulder, turning anti-clockwise (**C**).

Rear tow point (**D**)



WARNING:

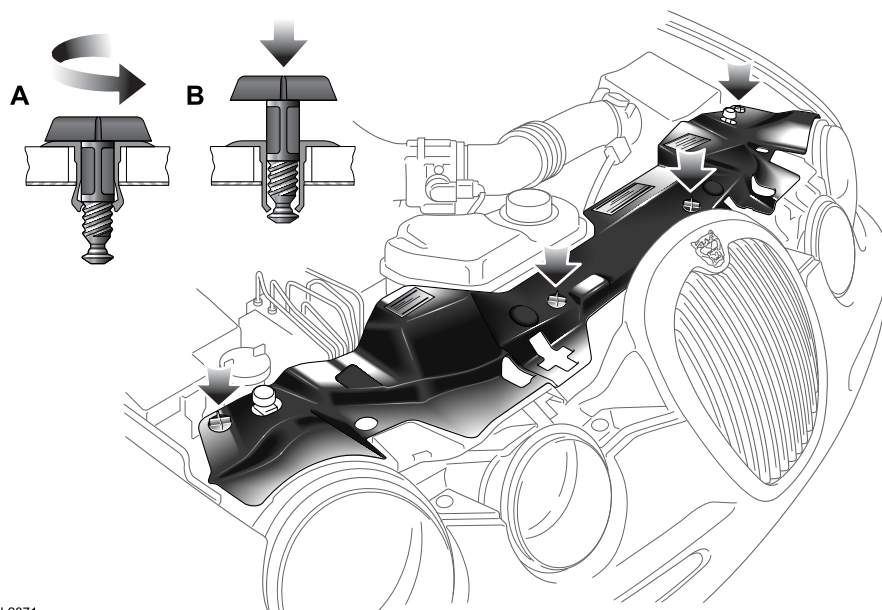
Avoid body contact with a hot exhaust pipe when fitting the eye to the rear towing point.

The rear towing point is alongside the left-hand exhaust pipe.

Remove the small cover from the bumper. Remove the bung and screw the towing eye into the vehicle, right up to the shoulder, turning anti-clockwise.

Bulb Renewal

Overview



JOL2871

It is important that only Jaguar bulbs of the type specified are used when renewing bulbs.

Before renewing bulbs, switch off the ignition and light switches.

Top cover

To gain access to the headlight units, the top cover must be removed.

Turn the fasteners **(A)** approximately one and a half turns anti-clockwise and then remove the top cover.

After changing the defective bulb, refit the cover and push the fasteners **(B)** in place to retain the cover.

Bulb Renewal

Headlight

Halogen bulbs are used in the main beam (inner headlight) positions.

Either halogen bulbs or the optional High Intensity Discharge (HID) Xenon light system are fitted in the dipped beam (outer) headlight positions.

Where HID lighting is fitted, refer to your Jaguar Dealer/Authorised Repairer if the headlight fails to operate.

Caution: Halogen bulbs will be damaged if touched by hand or contaminated with oil or grease. It is important to use clean gloves or cloth when handling a bulb which is to be used again. A contaminated bulb may be cleaned with methylated spirit before refitting.

Dipped beam (outer) headlight

Open the bonnet.

Remove the top cover as shown on page 179.

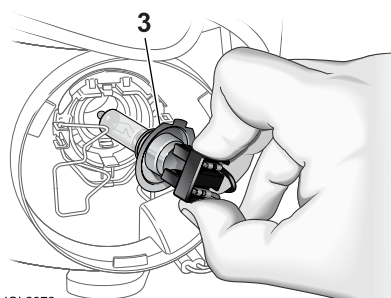
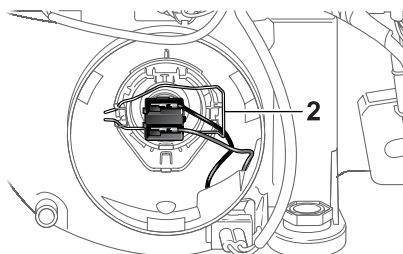
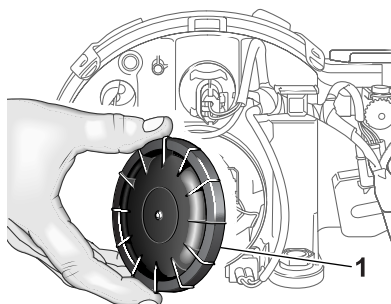
Turn the circular cover (1) anti-clockwise and remove.

Press the spring clip (2) towards the bulb and downwards to release the bulb.

Remove the bulb/connector (3) from the headlight assembly. Pull the connector from the bulb.

Attach the connector to the new bulb, type H7 for dipped beam, and fit to the headlight. The bulb will only correctly fit in one position.

Engage the spring clips to retain the bulb and then fit the circular cover.



JOL2872

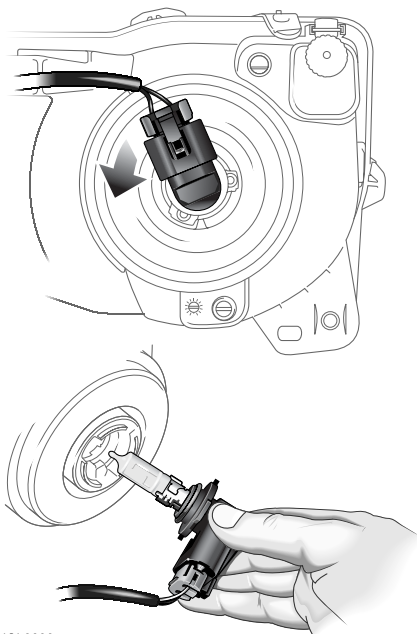
Refit the top cover and close the bonnet.

It is advisable to have the headlight aim checked by a Jaguar Dealer/Authorised Repairer after bulb renewal.

Note: High Intensity Discharge (HID) Xenon light units, type D2S 35W, are not renewable, contact your Jaguar Dealer/Authorised Repairer if the headlight fails to operate.

Bulb Renewal

Main beam (inner) headlight



JOL3206

Open the bonnet.

Remove the top cover as shown on page 179.

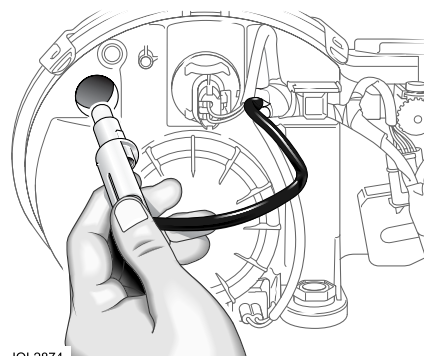
Turn the bulb holder a quarter turn anti-clockwise and remove the bulb and holder from the light unit.

Fit a new bulb to the holder, type HB3 for main beam.

Fit the holder to the light unit, the bulb will only correctly fit in one position.

Refit the top cover and close the bonnet.

Front Parking (Side) Light



JOL2874

Open the bonnet.

Remove the top cover as shown on page 179.

The front parking lights are contained within the outer headlight units.

Rotate the bulb holder anti-clockwise and remove from the headlight.

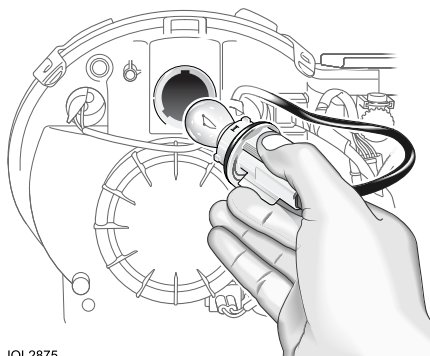
Pull the capless bulb from the holder and fit a new one of the correct type, W5W.

Reposition the bulb holder in the headlight unit and turn clockwise.

Refit the top cover and close the bonnet.

Bulb Renewal

Front Direction Indicator



JOL2875

Remove the top cover as shown on page 179.

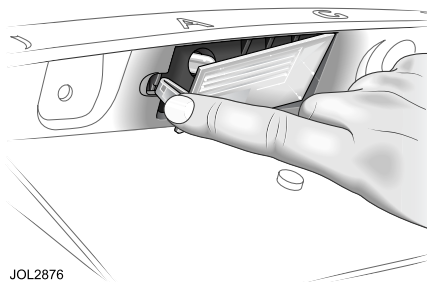
The bulb is contained within the outer headlight. Turn the holder a quarter turn anti-clockwise and remove the bulb and holder.

Remove the bulb and fit a new one of the correct type, PY21W.

Fit the holder to the light unit, it will only fit in one position.

Refit the top cover and close the bonnet.

Number Plate Light



JOL2876

Push the lens clip sideways and remove the lens from the vehicle.

Remove the bulb and fit a new one of the correct type, W5W.

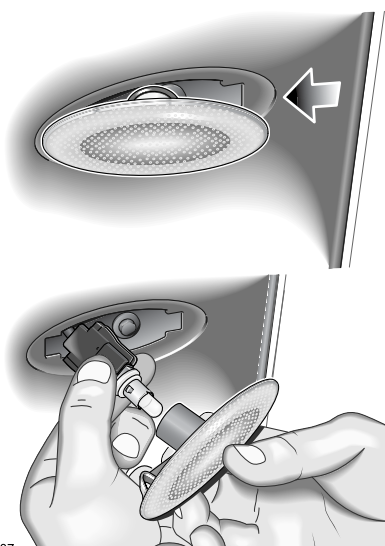
Refit the lens by pressing it firmly into the recess until it clicks into place.

Front Fog Light

It is recommended that the front fog light bulb is renewed by a Jaguar Dealer/Authorised Repairer.

Bulb Renewal

Side Repeater Indicator



JOL3207

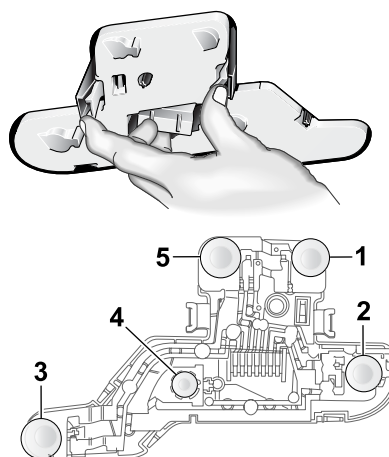
Remove the light unit from the front wing panel by pressing the unit forwards or rearwards to compress the spring clip and remove the complete unit.

Twist the bulb anti-clockwise and remove.

Fit a new bulb of the correct type, W5W.

Press the unit into the recess until it clicks into place.

Rear Light Assembly



JOL3261

The rear light assembly has the following bulbs:

1. Reverse light, type P21W.
2. Stop/tail light, type P21/4W.
3. Fog light, type P21W.
4. Tail light, type R5W.
5. Direction indicator, type PY21W.

Ensure that the lights and ignition switch are OFF before removing any bulbs.

Open the luggage compartment, release the side carpet retaining clip and unclip the rear light bulb carrier.

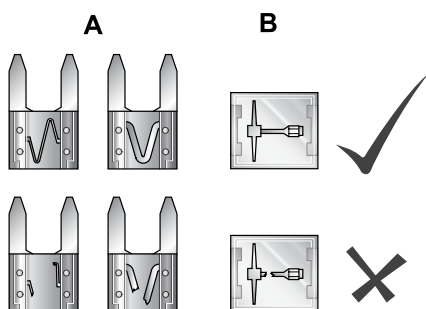
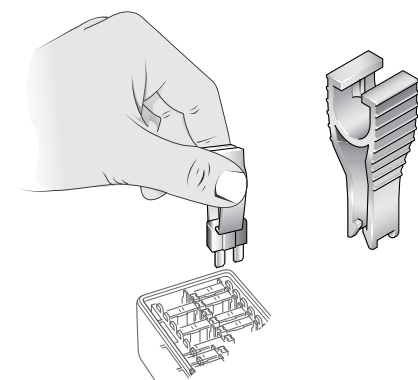
Remove the faulty bulb and fit a new one of the correct type, as illustrated on the bulb holder. Fitment of the correct type is essential.

Refit the bulb carrier assembly, ensuring that the clips are correctly secured.

Refit the carpet.

Fuses

Fuses



JOL3208

Fuse failure is identified by an inoperative circuit.

Do not fit a new fuse if the wiring is damaged; contact a Jaguar Dealer/Authorised Repairer. After renewing a fuse have the circuit checked by a Jaguar Dealer/Authorised Repairer.

Two types of fuses are fitted in the fuse boxes, a mini-type (A) and a cartridge-type (B).

A special tool for removing and replacing mini-fuses is provided in the engine compartment fuse box, together with spare fuses.

Use only the spare fuses supplied. If a spare fuse is used, renew it with a Jaguar approved fuse of the same amperage rating.

Checking/Renewing a Blown Fuse

It is highly recommended that only the mini-type fuses are replaced by the owner. All other fuses and relays should be replaced by a Jaguar Dealer/Authorised Repairer or roadside assistance.

Make sure the new fuse is the correct rating (amperage).

Fuses are colour coded according to the amperage and the rating is also marked on each fuse.

The colour code is as follows:

Tan	5 amp
Brown	7.5 amp
Red	10 amp
Blue	15 amp
Yellow	20 amp
Clear	25 amp
Green	30 amp
Bright Orange	40 amp

Mini-fuse replacement

Push the tool on to the suspect mini-fuse and withdraw it.

If the wire in the fuse is broken, the fuse has blown.

Fit a new fuse using the tool.

Fuses

Cartridge fuse replacement

It is advisable to have these fuses changed by a Jaguar Dealer/Authorised Repairer when blown.

Pull the suspected blown fuse from its holder.

If the wire in the fuse is broken, the fuse has blown.

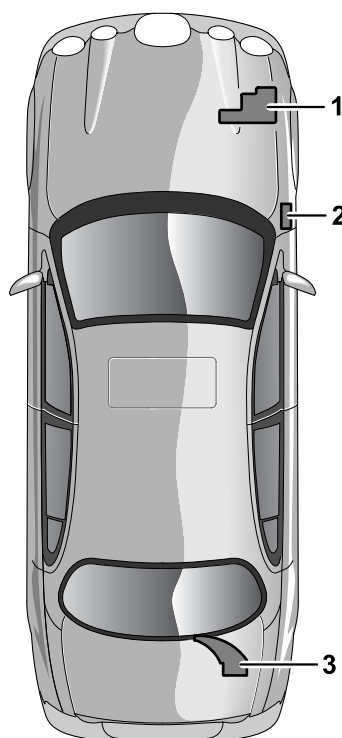
Push a new fuse into the holder.



WARNING:

- Do not fit a fuse of a different amperage from that removed. The electrical circuits may become overloaded with the subsequent possibility of a fire.
- No attempt should be made to repair a fuse that has blown as this may cause a fire hazard or serious damage elsewhere in the electrical circuit.

Fuse Box Locations



JOL3209

There are three separate fuse boxes fitted to the vehicle, each one containing fuses protecting a different group of circuits.

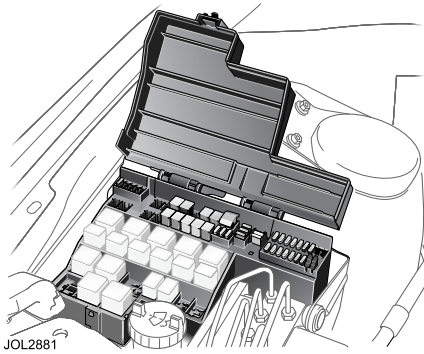
They are located in:

1. The engine compartment.
2. The passenger compartment.
3. The luggage compartment.

Caution: When a fuse box lid is removed, take care to protect the box from moisture, and refit the lid at the earliest opportunity.

Fuses

Engine compartment fuse box



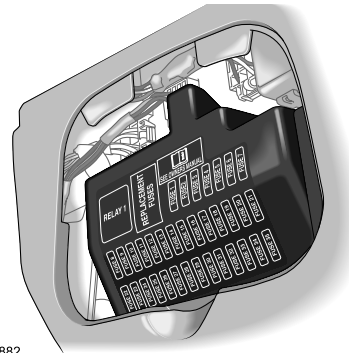
The fuse box is located in the engine compartment on the right-hand side adjacent to the windscreen wash reservoir.

Caution: When a fuse box lid is removed, take care to protect the box from moisture, and refit the lid at the earliest opportunity.

Remove the fuse box lid by pressing the retaining lugs and lifting.

When refitting, press the fuse box lid in the area of the retaining lugs until the lid engages.

Passenger compartment fuse box



The passenger compartment fuse box is located on the right-hand side trim panel in the footwell.

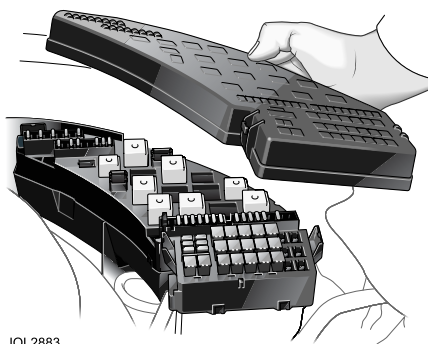
Remove the fuse box lid by pressing the retaining lugs and lifting.

When removing and replacing mini-fuses, use the special tool provided in the engine compartment fuse box lid, together with spare fuses.

When refitting, press the fuse box lid in the area of the retaining lugs until the lid engages.

Fuses

Luggage compartment fuse box



JOL2883

A fuse box is located in the luggage compartment, situated forward of the battery.

Fold the luggage compartment floor panel to gain access to the fuse box. Remove the fuse box lid by pulling the retaining clips and pulling the lid upwards.

When removing and replacing mini-fuses, use the special tool provided in the engine compartment fuse box lid, together with spare fuses.

Reposition the lid and press down until the retaining clips engage.

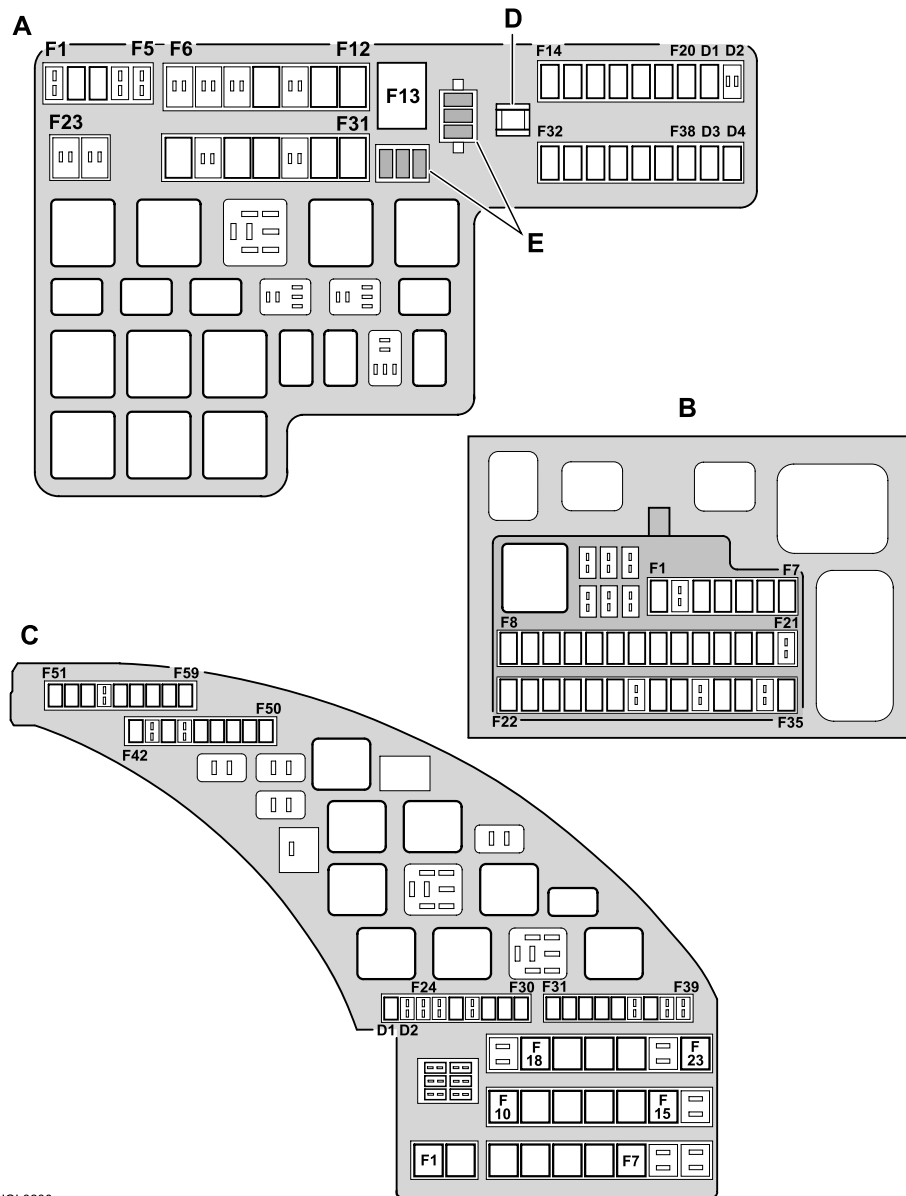
Refit the floor panel.

Fuse and Relay Positions

See illustration on following page:

- A. Engine compartment fuse box.
- B. Passenger compartment fuse box.
- C. Luggage compartment fuse box.
- D. Fuse removal tool.
- E. Spare fuses.

Fuses



JOL3230

Fuses

Engine compartment fuse box (A) - fuses

Fuse No	Rating (amps)	Circuit
F1		Not used.
F2	5A	Engine management system engine control module (battery supply) (Diesel only).
F3	20A	Auxiliary fuel fired heater(Diesel only).
F4		Not used.
F5		Not used.
F6		Not used.
F7		Not used.
F8		Not used.
F9	50A	Petrol- Heated oxygen sensors, throttle, ignition, engine management system relays. Diesel - Engine management system relay
F10		Not used.
F11	40A	Headlight powerwash.
F12	20A	Wipers.
F13	80A	Cooling fan.
F14	15A	Right-hand dipped beam high intensity discharge (HID) light.
F15	15A	Front fog light.
F16	15A	Horns.
F17	15A	Fuel injectors (Petrol only).
F18	20A	Throttle motor (Petrol only).
F19	10A	Petrol - Ignition coil on plugs supply, capacitor, HEGO Relay coil. Diesel - pressure control valve, volume control valve
F20	30A	Right-hand oxygen sensor heaters(Petrol only); engine management system engine control unit (Diesel only).
F21/ D1	5A	Rain sense module.
F22/ D2		Not used.
F23		Not used.
F24		Not used.
F25	40A	Right-hand windscreen heater.
F26		Not used.
F27	30A	Starter motor solenoid.
F28	30A	ABS pump motor.

Fuses

Fuse No	Rating (amps)	Circuit
F29		Not used.
F30	40A	Left-hand windscreen heater.
F31	30A	ABS module (ABS valves).
F32	10A	Air compressor clutch, auxiliary coolant pump.
F33	15A	Engine control module and transmission control module battery supply.
F34	15A	Left-hand dipped beam high intensity discharge (HID) light.
F35	30A	Left-hand oxygen sensor heaters (Petrol only).
F36	15A	Intercooler pump (supercharged model).
F37	15A	Air flow meter, purge valve(Petrol only), inlet manifold tuning valves (V6 only), EGR valve (V8 only), air filter solenoid (V8 S/C only), MAF sensors, VGT, port deact valve (Diesel only), canister close valve.
F38	10A	Engine control module, ignition supply (Petrol only), glowplug module (Diesel only), cooling fan module, air conditioner clutch relay.
D3		Ignition relay(Petrol only).
D4		Engine management control relay (Petrol only).

Passenger compartment fuse box (B) - fuses

Fuse No	Rating (amps)	Circuit
F1	5A	Engine control module/crankshaft sensor.
F2		Not used.
F3	5A	ABS/Dynamic stability control module, ACC module.
F4	5A	Inertia switch (engine management system, fuel pump relay, ignition relay, rear electronics module), instrument cluster.
F5	10A	Restraint control module, airbag occupant sensor, passenger airbag de-activation light.
F6	10A	OBDII connector.
F7	5A	Driver's door module, battery backed sounder, road pricing (Singapore), security LED.
F8	5A	Front right turn indicator, sidemarker, park, repeater light.
F9	10A	Right-hand dipped beam, left-hand HID relay coil.
F10	5A	Front left turn indicator, sidemarker, park, repeater light.
F11	10A	Left-hand main beam.
F12	15A	Screenwash pump.
F13	5A	Instrument cluster.

Fuses

Fuse No	Rating (amps)	Circuit
F14	10A	Climate control system, two stage adaptive damping control module.
F15	5A	Ignition switch feed (RUN) to alternator, 'J'-gate, transmission control module.
F16	10A	Passenger/driver heated seat modules, electrochromic mirror, rain sense module, headlight levelling/HID, tyre pressure module.
F17	5A	Instrument cluster (airbag warning light, alternator warning light, seatbelt chime).
F18	20A	Radio head unit, touch-screen/display unit.
F19	15A	Steering column tilt and reach motors.
F20	10A	Logic supply to instrument cluster, climate control system, front electronic module, rear electronic module, electric parkbrake.
F21		Not used.
F22	10A	Driver's door module battery supply (driver's door mirror, locks).
F23	10A	Right-hand main beam.
F24	5A	Passive anti-theft system.
F25	10A	Left-hand dipped beam, right-hand HID relay coil.
F26	5A	Electric parkbrake switch illumination, AM/FM antenna amplifier, sunblind motor, cigar lighter and power point relay.
F27	10A	Radio head unit, touch-screen/display unit, navigation module, VICS (Japan), centre console switchpack, voice control, phone transceiver.
F28		Not used.
F29	5A	Reversing aid module, telephone transceiver, front electronic module, voice control.
F30	10A	Front electronic module power.
F31		Not used.
F32	10A	Accessory relay and socket.
F33	10A	Front electronic module (instrument dimming, fuel/luggage compartment switchpack.)
F34		Not used.
F35	5A	Brake on/off switch, bottom of clutch switch.

Fuses

Luggage compartment fuse box (C) - fuses

Fuse No	Rating (amps)	Circuit
F1	40A	Passenger compartment fusebox - battery supply.
F2	30A	Cigar lighter and power point relay.
F3	20A	Ignition switch.
F4	20A	Left-hand rear window raise/lower.
F5	20A	Driver's window raise/lower.
F6	20A	Front passenger's window raise/lower.
F7	20A	Right-hand rear window raise/lower.
F8		Not used.
F9		Not used.
F10	30A	Fan motor.
F11	30A	Passenger seat.
F12	30A	Switch system power 1 relay.
F13	30A	Switch system power 2 relay.
F14	30A	Switch system power 3 relay.
F15	30A	Driver's seat.
F16		Not used.
F17		Not used.
F18	30A	Driver's seat.
F19	30A	Passenger's seat.
F20	30A	Switch system power 4 relay.
F21	30A	Heated rear window.
F22		Not used.
F23	30A	Fuel pumps.
D1		Fuel pump relay (Petrol only).
D2		Not used.
F24	5A	Tyre pressure module.
F25	5A	CD player.
F26	15A	Adaptive damping.
F27		Not used.
F28	30A	Remote audio power amplifier.
F29	10A	Telephone, Navigation, VICS (Japan only).
F30	5A	Alternator sense (V8 S/C only and diesel).
F31	20A	Sunroof control module.
F32	10A	Driver's seat.
F33	5A	Transit relay.

Fuses

Fuse No	Rating (amps)	Circuit
F34	20A	Left/right-hand heater seat module.
F35	30A	Electric parkbrake.
F36		Not used.
F37	10A	Passenger seat.
F38		Not used.
F39		Not used.
F40		Not used.
F41		Not used.
F42	10A	Driver/passenger heated door mirrors.
F43		Not used.
F44	10A	Left-hand rear reverse light, direction indicator, side marker, trailer tow relay and module.
F45		Not used.
F46	10A	Luggage compartment lid and interior lights, fuel filler flap solenoid.
F47	15A	Rear electronic module, fuel pump driver (Petrol only), fuel pump lift (Diesel only).
F48	10A	Right-hand rear reverse light, direction indicator, side marker, number plate light.
F49	15A	Secondary fuel pump module (S/C only).
F50	5A	Transit relay.
F51	5A	ACC.
F52	5A	Electric parkbrake.
F53	10A	Right-hand rear stop, tail and fog lights, high mounted stop light.
F54		Not used.
F55	10A	Footwell lights, roof courtesy lights, map lights, visor light, puddle light, glove compartment light, garage door opener.
F56	15A	Cigar lighter.
F57	10A	Left-hand rear stop, tail and fog lights.
F58	20A	Power point.
F59	15A	Rear electronic module, rear and passenger door locks, boot solenoid.

Fire Extinguisher

Dealer Fitted Fire Extinguisher

Many countries make it compulsory to carry a fire extinguisher. Your Jaguar Dealer can supply and fit one.

Factory Fitted Fire Extinguisher (Where fitted)

Some countries have a factory fitted fire extinguisher which contains BC powder pressurised with nitrogen to a working pressure of 180 psi (12 bar) at 20°C (68°F).

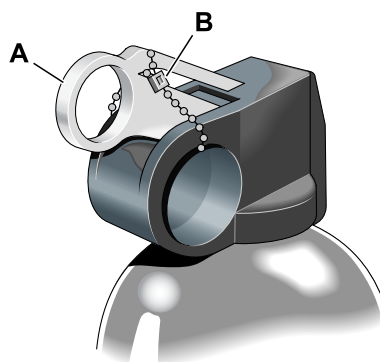
This extinguisher can be used on liquid fires, electrical equipment fires and, if no explosion risk, gasoline fires.



WARNING:

- **Do not test the fire extinguisher prior to use. Partial discharge will render the extinguisher inoperative.**
- **Do not use the fire extinguisher closer than 2.4 m (8 feet) to the base of a liquid fire as the force may splatter the burning liquid to the surrounding area.**

Operating the fire extinguisher



JOL3026

1. Unclip and remove the extinguisher from the bracket.
2. Put your finger through the yellow safety wedge ring (A) and pull hard to remove the wedge. The operating lever will be exposed.
3. Hold the extinguisher upright and aim at the base of the fire.
4. Press the lever down firmly.
5. Release the lever to stop the flow of powder.

Maintenance

Every six months:

- Remove the extinguisher from its bracket and check that the nozzle is clear.
- Check that the safety wedge strap (B) is secure.

Check the pressure gauge on the base of the extinguisher. If the gauge is in the red area report it to your Jaguar Dealer/ Authorised Repairer immediately as the extinguisher may not work in an emergency.

Maintenance

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Regular Checks

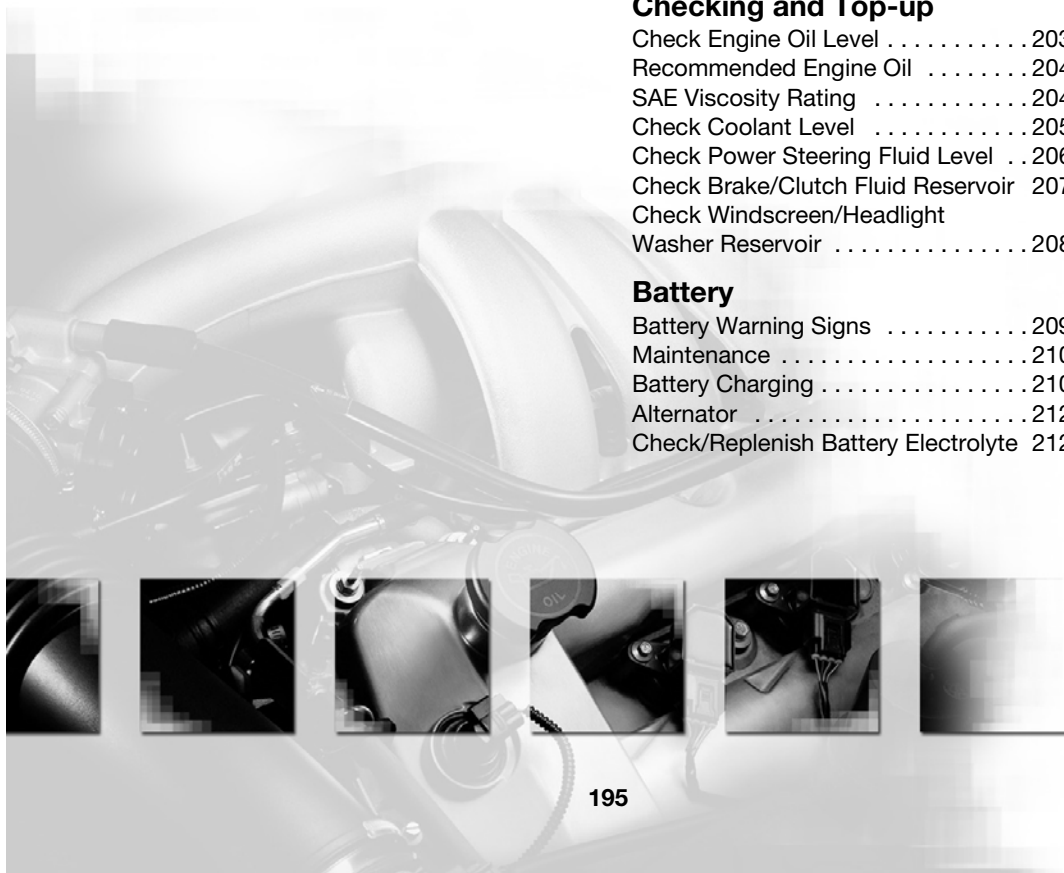
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General Maintenance

Introduction

Owners are responsible for ensuring that the vehicle is regularly serviced at the correct distance/time intervals as specified in the 'Service Portfolio'. The first part of this section deals with regular servicing.

The condition of the tyres is of the utmost importance. Advice about tyre wear and correct usage is given in this section. If in any doubt about the condition of your tyres, contact a Jaguar Dealer/Authorised Repairer.

Regular Servicing

Each vehicle is given a full 'Pre-Delivery Inspection' to ensure that all systems function correctly and the vehicle meets its specification.

Regular maintenance and servicing is the responsibility of the owner. Failure to implement maintenance at the recommended intervals could result in deterioration of vehicle performance and possible infringement of regulations.

Your Jaguar Dealer/Authorised Repairer will be pleased to arrange periodic servicing in accordance with the 'Service Portfolio' book.

Battery/ignition isolator switches

Non-approved battery isolator switches, which disconnect the power supply to all electrical circuits, are not recommended.

Used Engine Oil



WARNING:

Prolonged and repeated contact may cause serious skin disorders, including dermatitis and cancer.

Always use a hand cream to protect the skin from oil contamination. Avoid contact with the skin as far as possible and wash thoroughly after any contact. Keep oils out of reach of children.

Protect the Environment

Care should be taken at all times to avoid polluting the environment. Used materials, e.g. batteries, tyres, fluids and filters, should be disposed of at suitable disposal facilities in accordance with local legislation. If in doubt, clarification should be sought from your local authority/regulator.

Engine and Throttle Settings

Do not attempt to make adjustments to the engine or throttle settings. Many vehicle systems are controlled by complex electronic devices and require specialist knowledge. Such work should be entrusted to a Jaguar Dealer/Authorised Repairer.

Hydraulic Fluid

The brake hydraulic fluid in the master cylinder and brake operating system uses non-mineral polyglycol based brake fluid with a minimum standard of JAGUAR SUPER DOT 4. ONLY FLUID OF THIS TYPE AND STANDARD MAY BE USED.

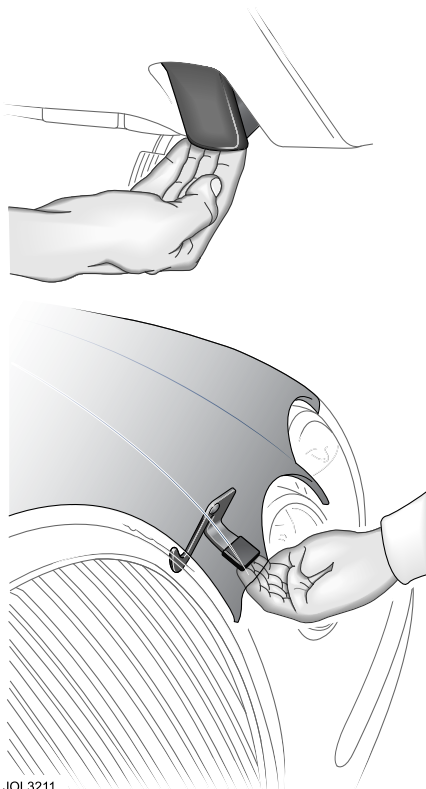


WARNING:

Contamination of the brake system fluid by as little as 1 per cent will cause rapid deterioration of the system seals. Ensure that the brake fluid reservoir cap is securely fitted.

Bonnet Release

Operation



Lift the bonnet slightly and pull up the safety catch under the bonnet, located to the right of the grille. The gas filled struts will assist raising the bonnet, and retain it in the fully open position.

To close the bonnet



WARNING:

Before closing the bonnet ensure that no one is obstructing the closing area and that hands and clothes are clear. Remove tools, cleaning cloths, etc., from the engine compartment.

Close the bonnet to within a distance of 300 to 350 mm (12 to 14 inches) of the fully closed position, then let go to allow the bonnet to shut.

Caution: Do not press downward on the top of the bonnet to close it, especially within the final centimetres (inches) of closing, as this may damage the bonnet.

To check that the bonnet is closed, pull the bonnet upwards to ensure that both the right-hand and left-hand latches are engaged.

To open the bonnet



WARNING:

Take care to keep away from rotating components if the engine is running when you open the bonnet.

Release the bonnet lock by pulling the lever below the fascia on the driver's side of the vehicle.

Regular Checks

Check Intervals

In the interests of safety and reliability, it is advisable to carry out the following checks at the recommended intervals, and always before starting on a long journey.

Daily

Check that there is sufficient fuel for the journey intended, particularly at night and before entering motorways.

Weekly

Tyres - Check the tyres, including the spare, for condition and pressure.

Lights - Check that all exterior lights and direction indicators function correctly and that the lenses are clean.

Engine oil - With the vehicle standing on level ground, check the oil level and top up if necessary with oil of the correct grade.

Engine coolant - With the engine cold, check the level of the coolant in the coolant reservoir header tank. Any loss of fluid must be checked by a Jaguar Dealer/Authorised Repairer.

Brake/clutch fluid - Check the level of the fluid in the brake fluid reservoir. Top up if necessary with new, unused Jaguar approved brake fluid.

The reservoir is initially nearly full, but the level will drop as the brake pads wear. If the level appears unusually low, location of the fluid leakage must be checked by a Jaguar Dealer/Authorised Repairer.

Power steering fluid - With the engine cold check the level of the fluid in the power steering fluid reservoir. Top up if necessary with fluid of the correct specification. Any loss of fluid should be checked by a Jaguar Dealer/Authorised Repairer.

Windscreen washer fluid - Top up with recommended windscreen washer fluid and clean soft water. Check the operation of the washer. Use Jaguar Windscreen Washer Fluid to keep the glass clean and also to prevent the fluid from freezing during cold weather.

Monthly

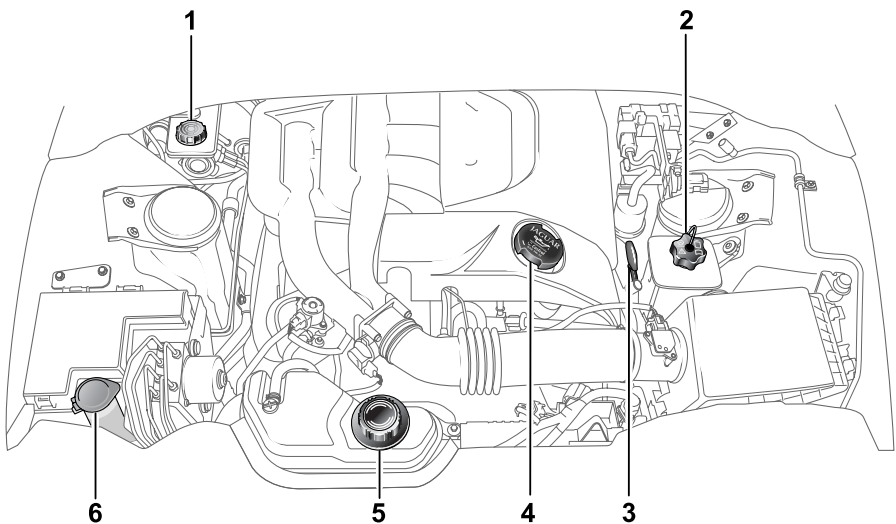
Wiper blades - Check the quality of the wipe. If smearing or juddering is evident, clean the windscreen and renew the wiper blades.

Transmission and rear axle

The rear axle (final drive unit) and automatic and manual transmission units (gearboxes) will not normally require to be checked or topped up, they are 'fill for life', levels, which should be checked by a Jaguar Dealer/Authorised Repairer.

Regular Checks

Reservoir and Dipstick Locations: V6 Engine



JOL3224

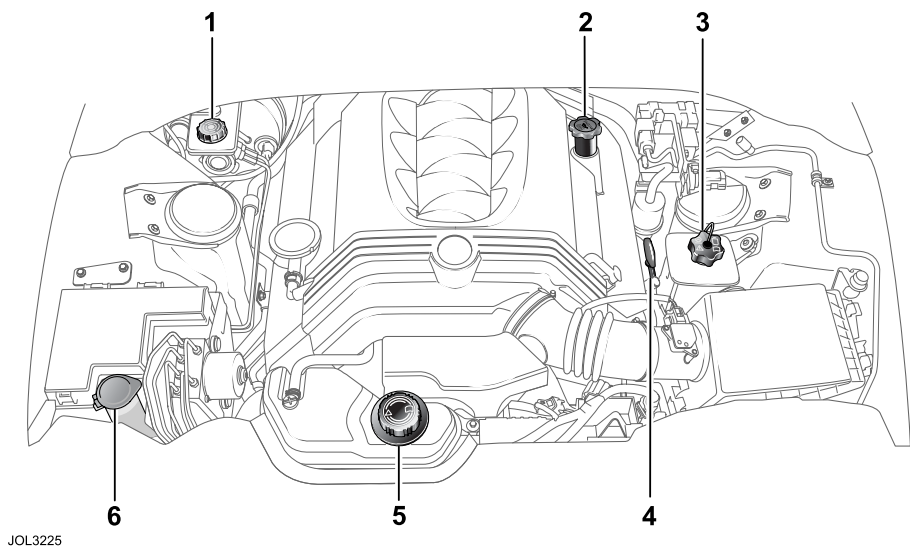
- | | |
|------------------------------|-------------------------------|
| 1. Brake/clutch reservoir. | 4. Engine oil filler. |
| 2. Power steering reservoir. | 5. Coolant reservoir. |
| 3. Engine oil dipstick. | 6. Windscreen wash reservoir. |

Capacities

	Litres	Imperial Pints
Engine oil, including oil filter.	6.5	11.4
Cooling system, including reservoir and climate control.	10.4	18.3
Windscreen washer reservoir:		
Without headlight power wash.	3.8	6.7
With headlight power wash.	6.6	11.6

Regular Checks

Reservoir and Dipstick Locations: V8 Engine



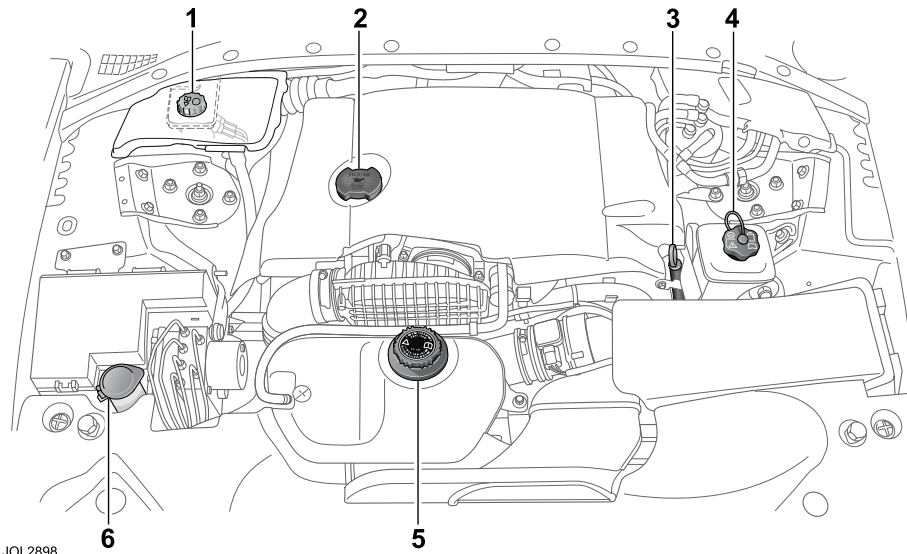
- | | |
|------------------------------|-------------------------------|
| 1. Brake/clutch reservoir. | 4. Engine oil dipstick. |
| 2. Engine oil filler. | 5. Coolant reservoir. |
| 3. Power steering reservoir. | 6. Windscreen wash reservoir. |

Capacities

	Litres	Imperial Pints
Normally aspirated - engine oil, including oil filter.	6.0	10.6
Supercharged - engine oil, including oil filter.	6.8	12.0
Cooling system, including reservoir and climate control.	10.0	17.5
Windscreen washer reservoir:		
Without headlight power wash.	3.8	6.7
With headlight power wash.	6.6	11.6

Regular Checks

Reservoir and Dipstick Locations: Diesel Engine



- | | |
|----------------------------|-------------------------------|
| 1. Brake/clutch reservoir. | 4. Power steering reservoir. |
| 2. Engine oil filler. | 5. Coolant reservoir. |
| 3. Engine oil dipstick. | 6. Windscreen wash reservoir. |

Capacities

	Litres	Imperial Pints
Engine oil, including oil filter.	6.6	11.6
Cooling system, including reservoir and climate control.	13.7	24.1
Windscreen washer reservoir:		
Without headlight power wash.	3.8	6.7
With headlight power wash.	6.6	11.6

Checking and Top-up

Check Engine Oil Level

The oil consumption of your engine is influenced by many factors: new engines reach the normal value only after approximately 5,000 km (3,000 miles). Diesel engines consume slightly more oil than petrol engines. Under high loads your engine will also consume more oil.

Check the oil level regularly with the vehicle on flat, level ground.

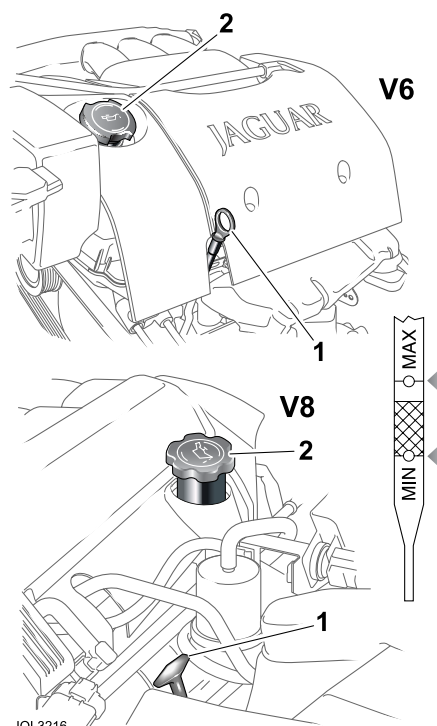
Refer to pages 200, 201 and 202 for dipstick and oil filler locations.

It is preferable to check the oil level after the vehicle has been standing, that is, with the engine completely cold.

If the engine has been started do not check the oil level until the engine has reached normal operating temperature. Stop the engine and wait for a minimum of 5 minutes to allow the oil to drain back into the sump.

Caution: Do not use oil additives of any type. Use only specified lubricants.

Petrol engine oil level



JOL3216

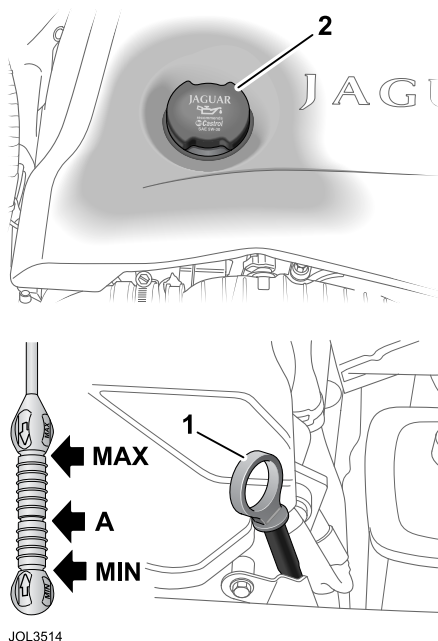
Remove the dipstick (1) and wipe clean with a non-fluffy cloth. Replace fully, then withdraw the dipstick. If the oil level is above the lower of the two dots on the dipstick then no additional oil is required.

If the oil level reaches the lower of the two dots, remove the oil filler cap (2) and add 1.0 litres (1.76 Imp.pints) of oil, to the specification shown in 'Recommended Engine Oil', on page 204.

Refit the dipstick and filler cap and securely tighten the filler cap by hand.

Checking and Top-up

Diesel engine oil level



Remove the dipstick (1) and wipe clean with a non-fluffy cloth. Replace fully, then withdraw the dipstick. If the oil level is above the mark (A) on the dipstick then no additional oil is required.

The mark (A) is for the oil fill top-up requirement.

If the oil level is lower than the mark, remove the oil filler cap (2) and add 1.0 litres (1.76 Imp.pints) of oil, to the specification shown in 'Recommended Engine Oil', on page 204.

Refit the dipstick and filler cap and securely tighten the filler cap by hand.

Recommended Engine Oil

Jaguar recommends 

Oil specification – Petrol engine

An oil of 5W-30 viscosity meeting Jaguar specification WSS M2C913 – A or B is preferred. Where this is not possible, oil meeting API SJ/EC and ACEA A1 98 or A3 98 may be used.

Oil specification – Diesel engine

An oil of 5W-30 viscosity meeting Jaguar specification WSS M2C913 – B must be used in all vehicles with a diesel engine.

For **top-up purposes only**, where the WSS M2C913 - B specification cannot be found, ACEA B1 or ACEA B3 specification oils may be used.

SAE Viscosity Rating

For climates ranging from -30°C (-22°F) to +50°C (+122°F), the following oil viscosities may be used:

0W-30

5W-30 (preferred)

0W-40

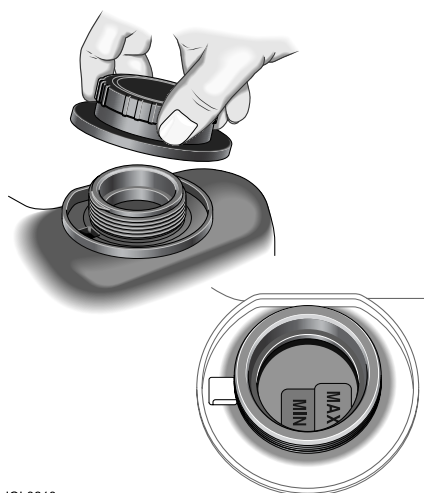
5W-40

It is recommended that the oil level is topped up using oil of the same viscosity. If you are unsure which oil viscosity is used in your car, your Jaguar Dealer/ Authorised Repairer will be able to advise.

If you are operating this vehicle in climates outside the above temperature range, contact your Jaguar Dealer/ Authorised Repairer for advice.

Checking and Top-up

Check Coolant Level



JOL3213



WARNING:

Do not remove the coolant header tank filler/pressure cap while the engine is hot. If the cap must be removed, protect the hands against escaping steam and slowly turn the cap anti-clockwise until the steam pressure starts to escape. Leave the cap in this position until the pressure is released, and then remove the cap completely.

Refer to pages 200, 201 and 202 for coolant header tank location.

The coolant level MAX and MIN indicators are located inside the reservoir and are only visible when looking into the filler neck with the cap removed.

Check the level only when the engine is cold. The coolant level should be between the MAX and MIN indicators. If persistent coolant loss is noticed, have a Jaguar Dealer/Authorised Repairer investigate the cause immediately.

Topping up



WARNING:

- **Do not allow anti-freeze to make contact with skin or eyes. If this should happen, rinse the affected area immediately with plenty of water.**
- **Coolant fluid is toxic and in concentrated form is flammable. Be sure to observe all warnings indicated on the container.**

Caution: Anti-freeze will damage paintwork. Avoid spillage.

Top up with a mixture of 50% water and 50% anti-freeze until the coolant is between the MAX and MIN indicators inside the header tank. Use anti-freeze to specification WSS M97B44, coloured orange, Extended Life Coolant.

Refit the filler cap and hand-tighten securely until the ratchet operates.

Checking and Top-up

Engine anti-freeze

When used at the correct concentration, anti-freeze not only protects the engine from frost damage in winter, it also provides all year round protection against internal corrosion.

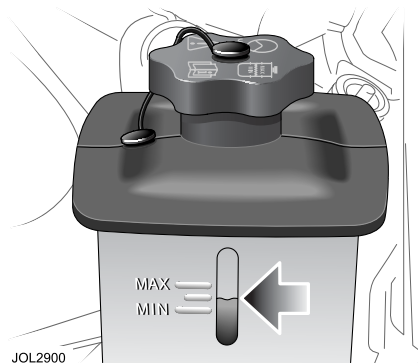
The cooling system should always be topped up or refilled with the specified anti-freeze at the correct concentration.

This 50/50% mixture gives frost protection for temperatures down to -40°C (-40°F).

Do not mix any other anti-freeze with that specified; inferior quality anti-freeze may be ineffective in maintaining adequate frost and corrosion protection to the cooling system.

The coolant solution may remain in the cooling system for five years or 250,000 km (156,000 miles) after which the system should be drained, flushed and refilled.

Check Power Steering Fluid Level



Caution: It is imperative that the power steering system does not become contaminated in any way. Always dispense fluid from a fresh sealed container and clean the area around the reservoir neck both before and after topping up. Never return drained fluid to the system.

Refer to pages 200, 201 and 202 for power steering fluid reservoir location.

Check the fluid level when the engine is 'COLD' and the vehicle is on a flat, level surface.

Wipe clean and remove the filler cap from the reservoir; take great care to prevent any foreign matter from entering.

Check that the fluid level is between the marks on the dipstick or between the MAX/MIN indications on the outside of the transparent reservoir.

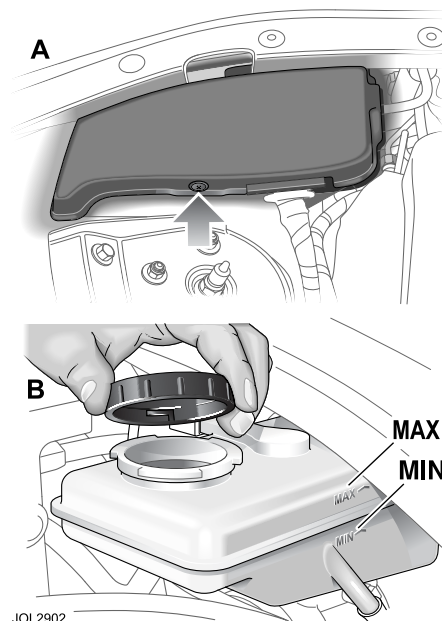
If necessary, top up with DEXTRON III power steering fluid, DO NOT OVERFILL.

Refit the filler cap.

Should the level be very low, report the loss of fluid to the nearest Jaguar Dealer/ Authorised Repairer.

Checking and Top-up

Check Brake/Clutch Fluid Reservoir



The manual transmission clutch fluid is shared with the brake fluid in a common reservoir. Refer to pages 200, 201 and 202 for brake/clutch fluid reservoir location.

Caution:

- While handling brake fluid, take extreme care; brake fluid must not contact the vehicle paintwork.
- Always use fresh, clean fluid from a new container. Never introduce used brake fluid into the system.

The fluid is visible through the translucent casing of the reservoir and must be maintained at the 'MAX' mark.



WARNING:

The fluid level will drop as the brake pads wear. If the level is very low report the loss of fluid to the nearest Jaguar Dealer/Authorised Repairer. Do not drive the vehicle until the cause is rectified.

If necessary, top up as follows.

Note: On the diesel engine, the reservoir top cover (A) will require removal.

Before removing the cap (B), clean the reservoir and cap thoroughly with a non-fluffy cloth to ensure that no foreign matter enters the reservoir.

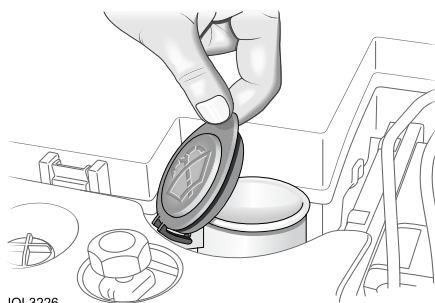
Unscrew the filler cap and top up to the 'MAX' level using brake fluid to specification **Jaguar Super DOT 4 (ESA-M6C25-A)**.

Refit the filler cap securely.

To avoid contamination should any brake fluid be spilt, replace the cap on the reservoir before cleaning the spilt fluid from the vehicle.

Checking and Top-up

Check Windscreen/Headlight Washer Reservoir



JOL3226

Refer to pages 200, 201 and 202 for windscreen washer reservoir location.

The washer reservoir contains the fluid for the windscreen washers and the headlight powerwash system (where fitted).

Fill to just below the neck with Jaguar Windscreen Washer Fluid diluted with clean, preferably soft water as specified in the instructions on the bottle. Do not over fill.

Using a non-approved fluid may adversely affect the wiper blade rubber, resulting in ineffectual and noisy wiping.

Cold weather precautions

To prevent damage to the pump during freezing conditions, use Jaguar Windscreen Washer Fluid at the strength shown on the bottle, for the anticipated ambient temperature.



WARNING:

- Windscreen washer fluid is toxic and in concentrated form is flammable. Be sure to observe all warnings indicated on the washer solution container.
- Under no circumstances must cooling system anti-freeze be used, since this will damage the paintwork.

Battery







Battery Warning Signs








JOL2689

There are two labels on the battery (see illustration above) depicting a number of warning signs. The warning signs are as follows:

Label A

-  No smoking, no naked flames, no sparks (Red)
-  Keep away from children (Red)
-  Shield eyes (Blue)
-  Note operating instructions (Blue)
-  Battery acid (Yellow)
-  Explosive gas (Yellow)

Label B

-  DANGER/POISON
-  SHIELD EYES
EXPLOSIVE GASES can cause blindness or injury
-  NO
 - SPARKS
 - FLAMES
 - SMOKING
-  SULFURIC ACID can cause blindness or severe burns
-  FLUSH EYES
IMMEDIATELY WITH
WATER
GET MEDICAL HELP
FAST

General warning on the label:
KEEP OUT OF THE REACH OF CHILDREN
DO NOT TIP
KEEP VENT CAPS TIGHT AND LEVEL

Battery

Maintenance

A low maintenance battery specifically designed for use with this vehicle is fitted in the luggage compartment.



WARNING:

- **The cell plugs and vent pipe must be in place at all times when the battery is in the vehicle. Failure to fit, or incorrect fitting of these items is potentially hazardous. Ensure vent pipe is free from kinks or damage.**
- **To avoid injury do not use an open flame or cause an electric spark when checking the battery. Hydrogen gas generated by the battery is flammable and may explode.**
- **Do not connect any 12 volt equipment, (for example, a 12 volt lead lamp), directly to the battery terminals. Use the cigar lighter sockets for temporarily connecting Jaguar approved accessories.**
- **Do not let battery acid electrolyte come into contact with skin or eyes. If you get any in your eyes or on your skin, immediately rinse with cold water and consult a doctor.**
- **Never charge or boost a frozen battery.**
- **Switch off ignition before disconnecting battery terminals. Always disconnect the earth terminal first and reconnect last.**
- **Do not let battery acid come into contact with painted surfaces or fabric.**

The exterior of the battery should be occasionally wiped clean to remove any dirt or grease.

If a new battery is to be fitted, it must be the same type as the original.

The use of unapproved batteries is not recommended and could invalidate the vehicle warranty.

Note: *The service life of the battery is dependent on its condition of charge. It must always be sufficiently charged for the battery to last an optimum length of time.*

We recommend that the battery charge is checked frequently if the vehicle is used mostly for short distance trips, or if it is not used for long periods of time.

Battery Charging



WARNING:

Batteries produce combustible gas (hydrogen) when being charged. The battery must be removed from the vehicle before charging commences.

To disconnect the battery, refer to 'Battery lead disconnection'.

When charging the battery ensure that the charger type and setting is appropriate for the vehicle battery.

Switch off the charger before connecting or disconnecting terminal connections to avoid sparks and short circuits.

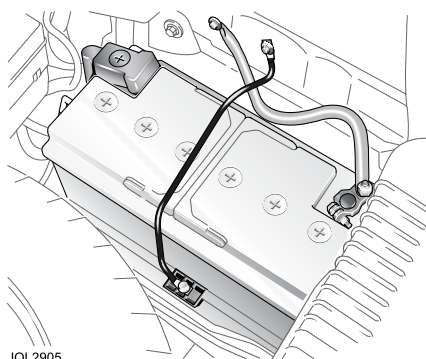
Ensure that the charger positive (+) lead is connected to the positive (+) terminal of the battery and the negative (-) lead is connected to the negative (-) terminal of the battery.

Do not remove or loosen any of the cell plugs when charging the battery.

Battery

Check, and if necessary replenish, the electrolyte level when the battery is fully charged, see page 212.

Battery lead disconnection



Caution:

- **Under no circumstances should a battery be disconnected whilst the ignition circuit is live, as permanent damage to the instrument cluster may occur.**
- **Disconnect the negative lead (earth terminal) first.**

Fold the luggage compartment floor panel forwards.

Slacken the negative lead pinch bolt and disconnect the negative (–) battery lead. Slacken the positive lead pinch bolt and disconnect the positive (+) battery lead.

Clean the battery posts and coat the post bases with petroleum jelly.

Battery lead connection

Note: Upon battery reconnection the security system will be armed. Opening any protected entry will sound the alarm. Make sure that a key or key transmitter is available.

Caution: Do not overtighten the pinch bolts.

Connect the positive (+) lead, tighten the pinch bolt and clip the positive terminal cover on the battery. Connect the negative (–) lead and tighten the pinch bolt.

After the battery has been reconnected and the ignition switch is turned to position 'II', the message centre display, if fitted, will initially show an erroneous reading i.e. -----. This will remain until after the bulb check sequence, when the correct recorded mileage will be displayed. This is a normal function of the instrument cluster.

After battery reconnection

After reconnecting the battery:

- Reset the electric parkbrake; see page 132.
- Reset the electrically operated windows anti-trap function; see page 85.
- The trip computer will lose all recorded trip data and all trip functions will be reset to zero. The vehicle total odometer reading is retained.
- The radio will not operate until the correct security code has been re-entered. Refer to the Audio Systems Handbook or touch-screen display handbook.
- If the battery is disconnected for more than 72 hours the radio preset channels will need to be reset.
- Reset the clock to the correct time.
- Recalibrate the seat memory positions; see page 88.

Battery

The engine electronic control system automatically adapts to certain characteristics of the vehicle. When the battery is disconnected, these adaptations are lost.

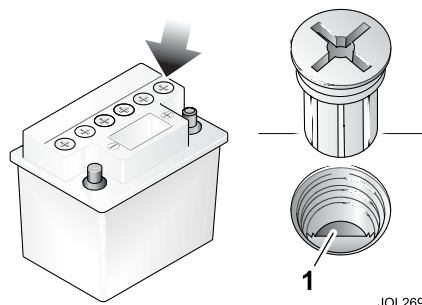
On reconnection, therefore, some slightly abnormal drive symptoms may occur and the vehicle may need to be driven 16 kilometres (10 miles) or more while the control system re-adapts.

Alternator

To prevent damage to the alternator, do not run the engine while the battery or any of the charging circuit cables are disconnected.

The alternator has polarity-sensitive components that may be irreparably damaged if subjected to incorrect polarity. Ensure that the battery earth lead is always connected to the battery negative terminal.

Check/Replenish Battery Electrolyte



Note: In normal climates this must be carried out at least once a year. In hot weather/climates the electrolyte level must be checked at least every three months.

Fold the luggage compartment floor panel forwards.

Unscrew the six cell plugs. Check that the electrolyte is level with the plastic level indicator (1). If necessary, top up with distilled water but do not overfill.

If illumination is required, use a hand-held flashlight to inspect the electrolyte level.

Refit the six cell plugs and refit the battery cover.

Wiper Blades

Maintenance

Use Jaguar Screen Clean Paste to remove contamination from the windscreen to ensure effective wiping or if smearing or juddering becomes evident. A more aggressive cleaning agent may be required to remove stubborn contamination. Contact a Jaguar Dealer/ Authorised Repairer for advice.

To ensure that the windscreen remains smear free, the washer system should be operated whenever the wiper is used, even when it is raining.

Windscreen wiper blades – inspect and clean

Lift the wiper blades clear of the windscreen and wipe the blades with a clean, soft cloth moistened with water to which a mild liquid detergent has been added.

Windscreen washers

The windscreen washer jets are mounted on the wiper arms.

Note: *The windscreen wiper jets and headlight washer jets are not adjustable.*

Tyres

Overview

Tyres of the correct type, manufacturer and dimensions, with correct cold inflation pressures are an integral part of every vehicle's design. Regular maintenance of tyres contributes not only to safety, but to the designed function of the vehicle. Road-holding, steering and braking are especially vulnerable to incorrectly pressurised, badly fitted or worn tyres.

Tyres of the correct size and type, but of different make have widely varying characteristics. It is therefore recommended that Jaguar approved tyres are fitted to all wheels.

Always ensure that the wheel nuts are fully seated before finally tightening the nuts in alternate sequence.

Tyre Pressures

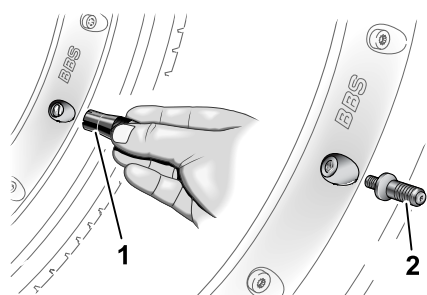
The recommended tyre pressures are listed on a label attached to the driver's side 'A' post (near the hinges of the driver's door). These tyre pressures provide optimum ride and handling characteristics for all normal operating conditions. The pressures should be checked, and correctly set each week with the tyres cold.

Tyre temperatures and pressures increase when running. Deflating a warm tyre to the recommended pressure will result in under inflation which may be dangerous.

A slight natural pressure loss occurs with time. If this exceeds 14 kPa (2 lbf/in², 0.14 bar, 0.14 kg/cm²) per week, the cause should be investigated and rectified.

If winter tyres are fitted, see tyres pressure information on page 216.

'R' performance wheels



JOL2693

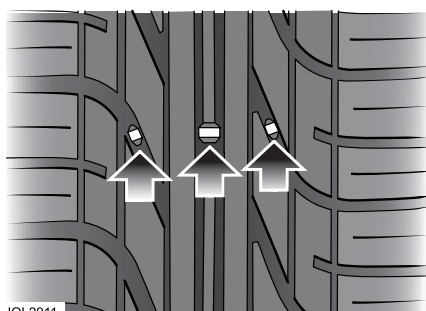
Some 'R' performance wheels have a slotted screw valve cover on the wheel face. This requires to be removed and an adaptor fitted so that the tyre pressure can be checked. A pouch containing a 'T'-shaped screwdriver and a valve adaptor, for use with these wheels, is stowed in the glove compartment.

To access the valve, remove the slotted screw valve cover using the screwdriver (1). Screw in the adapter (2) and hand-tighten. After checking the pressure, remove the adapter and refit the valve cover.

It is an offence in certain countries to drive a vehicle with tyres that are not inflated in accordance with the vehicle's proper use.

Tyres

Wear



All tyres fitted as original equipment include tread wear indicators (TWI) in their tread pattern. When the tread has worn to a remaining depth of 1.6 mm the indicators appear at the surface as bars which connect the tread pattern across the full width of the tyre.

It is illegal, in certain countries, to continue to use tyres after the tread has worn to less than 1.6 mm over three quarters of the width and the entire circumference of the tyre.

It should be noted that the properties of many tyres alter progressively with wear. In particular the 'wet grip' and aquaplaning resistance are gradually but substantially reduced. Extra care and speed restriction should therefore be exercised on wet roads as the effective tread depth diminishes.

Incorrect wheel alignment will accelerate tyre wear. Fins on the inner or outer edges of the tread pattern are caused by excessive toe-in or toe-out respectively. As fins may also be caused by high cornering speeds or road camber, it is advantageous to have the cause detected by having the wheel alignment checked.

Tyre Repair

It is recommended that damaged tyres are discarded and new tyres fitted. They must not be repaired in view of the high performance capability of the vehicle.

Damage

Excessive local distortion can cause the casing of a tyre to fracture and may lead to premature failure. Tyres should be examined especially for cracked walls, exposed cords, etc. Flints and other sharp objects must be removed from the tyre tread; if left in they may work through the cover. Clean off any oil or grease contamination by using a suitable cleaner.

Caution: Do not use paraffin (kerosene), because this has a detrimental effect on rubber.

Tyre Renewal

When renewing tyres, it is preferable to fit a complete vehicle set. If either front or rear tyres only need to be renewed, new tyres must be fitted, as axle sets, to replace worn ones.

After new tyres have been fitted the wheels need to be dynamically balanced.

The radial ply tyres specified are designed to meet the high-speed performance capability of this vehicle (see page 229).

Do not fit tyres with a different tread pattern, size or speed rating.

Tyre Use After Vehicle Storage

After a long period of a vehicle standing, tyres may become locally distorted with a flat area. This will cause an uneven ride for a few miles until the tyres have warmed up and the 'flat' rounds off.

Tyres

However, to reduce the effects of flat-spots, the tyres of a stored vehicle may be inflated to pressures not exceeding 420 kPa (60 lbf/in², 4.2 bar, 4.3 kg/cm²).

Winter (Snow) Tyres

The tyres fitted as original equipment are designed with a rubber compound, tread pattern and width specially suited for high speeds in normal road conditions, but they are less suitable during extremes of low temperatures, snow and ice. The use of winter tyres will considerably improve the vehicle's handling during these conditions.

It is recommended that only Jaguar approved winter tyres are used, as follows:

Winter 16 inch wheels

Pirelli Winter 210 Snowsport 225/55R16 95H

Continental TS770 and TS790

Winter 17 inch wheels

Pirelli Winter 210 Snowsport 225/50R 17 100H

Winter 18 inch wheels for Supercharged vehicle

Pirelli Winter 240 Snowsport 235/40R18 95V X/L

Pirelli Winter 240 Snowsport 265/35R18 95V X/L

Winter 18 inch tyre pressures:

	Up to 160 km/h (100 mph)
Front (235)	2.0 bar (30 lbf/in ² , 207 kPa, 2.1 kg/cm ²)
Rear (265)	2.3 bar (34 lbf/in ² , 230 kPa, 2.4 kg/cm ²)
	Over 160 km/h (100 mph)
Front (235)	2.6 bar (38 lbf/in ² , 260 kPa, 2.6 kg/cm ²)
Rear (265)	2.9 bar (42 lbf/in ² , 290 kPa, 3.0 kg/cm ²)

Tyre directional indicators must be rotating in a clockwise direction when viewed from the right-hand side of the vehicle, and anti-clockwise when viewed from the left-hand side of the vehicle.

Do not exceed 210 km/h (130 mph) when using Jaguar approved winter tyres.

Winter tyres must be used in vehicle sets, that is, fitted on all four wheels.

If non-Jaguar approved winter tyres are fitted, refer to the tyre pressure information label, attached to the driver's side 'A' post.

Tyres

Snow Chains

Snow chains, of the recommended type, may only be fitted to rear wheels.

Contact your Jaguar Dealer for details and availability of approved snow chains.

The maximum speed when using snow chains is 48 km/h (30 mph).

Remove the snow chains immediately the roads are clear of snow.

Ensure the fitting instructions supplied with the snow chains are kept in a safe place, for example, with this literature pack.

Note: *Dynamic stability control MUST be switched OFF when using snow chains.*

Temporary-use Spare Wheel (Where fitted)

Steel road wheel size	4.5 x 16
Tyre type/size	T145/80 R16 105 Continental
Alloy road wheel size	4 x 18
Tyre type/size	T115/85 R 18 96 Pirelli



WARNING:

Failure to comply with the following can be dangerous. When a temporary-use spare wheel is fitted, switch off dynamic stability control, drive with caution and replace with the specified wheel and tyre assembly as soon as possible. Do not fit more than one temporary-use spare at one time. Temporary-use spare, maximum speed is 80 km/h (50 mph).

For information about temporary-use spare wheel, refer to page 173.

Vehicle Care

Interior Care

Brush and clean the interior regularly. Use a vacuum cleaner where possible to remove all dust from the interior and trim.

Valet kit

A valet kit containing a selection of Car Care products is available from the Jaguar accessory range.

Carpets

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. See your Jaguar for advice.

Headlining

Remove dust in the headlining with a vacuum cleaner. To remove stains, dab gently without pressing, using a fluff-free white cloth, moistened with Jaguar Upholstery Cleaner.

Do not use methylated spirit or solvents as this may cause damage or discoloration to the headlining.

Leather upholstery

Refer to page 26 for detailed information on leather upholstery care.

Cloth upholstery

Weekly light vacuuming can extend the life of the fabric.

Using Jaguar Upholstery Cleaner, following the instructions, will preserve and enhance cloth upholstery. Test the upholstery cleaner solution on an unseen part of the seat. Do not over wet.

Caution:

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

Removing stains

Most stains on woollen fabric can be removed if treatment is carried out immediately, before the stain has a chance to 'dry-in'.

Keep the necessary cleaning materials in a convenient place.

Most stains can be treated with one of three cleaning fluids: Jaguar Upholstery Cleaner, dry cleaning fluid or clean water.

Mop up excess liquid with absorbent tissue (preferably white) or absorbent cloth; scoop up dry solids. Work inwards from the edge of the stain to prevent spreading. Use small amounts of cleaning liquid, blotting between applications.

Work slowly and thoroughly using light pressure. If the stain cannot be removed, contact a reputable dry cleaners.

Note: All the cleaning materials mentioned in this section are available from the Jaguar Accessory Range.



WARNING:

Dry cleaning fluids may be toxic or flammable. Take adequate precautions when handling these products.

Vehicle Care

Exterior Care

Washing

For best results, do not wash the vehicle under strong sunlight. Always allow the vehicle to cool down before washing.

Do not use a dry cloth to wipe dirty paintwork. Dust and gritty substances are abrasive and will scratch the paintwork. Remove dirt using a cellulose sponge and plenty of warm (never hot) water. Rinse off with clean water and dry using a clean, damp chamois leather.

Do not use household soaps or detergents. The use of Jaguar Vehicle Shampoo is recommended.

Do not direct hoses at full force around door and luggage compartment seals. Using high pressure water jets on the paintwork is not recommended.

Do not allow bird droppings or tree sap to harden. Remove from paintwork immediately with a lukewarm soap and water solution.

In winter, when salt is used on the roads, wash the vehicle frequently, and immediately after encountering such conditions. Clean undersides and wheel arches using a high pressure jet.

Automatic car wash

Note: Regular use of automatic car washes tends to dull the lustre of the paintwork.

After leaving the car wash, switch on the windscreen wiper immediately to remove water and prevent a build up of wax.

Jaguar Screen Clean Paste can be used to clean any residual wax from the glass.

Removing grease or tar

Remove grease or tar with Jaguar Tar Remover or methylated spirit (alcohol). White spirit is also effective, but must not be applied to rubber, particularly the windscreen wiper blades.

Glass surfaces

To avoid scratching glass surfaces, do not clean dirty glass with dry paper or cloth. Use clean, warm water and a chamois leather which is reserved for glass only.

The following products will ensure glass surfaces and windscreen wipers are kept in good condition:

Jaguar Screen Clean Paste – Apply to the exterior of the windscreen only to ensure effective operation of the windscreen wiper.

Jaguar Glass Cleaner – Interior and exterior of all other glass surfaces.

Jaguar Screen Wash – Washer reservoir additive.

Jaguar Winter Care Kit comprising de-icer, ice scraper, anti-mist wipe cloth and aerial cleaner – for use in adverse weather conditions.

Note:

- Renew the wiper blades when worn to prevent scratching. Clean the rubber wiper blades regularly with a mild detergent solution.
- It is advisable to clean the windscreen with Jaguar Screen Clean Paste at regular intervals.

Vehicle Care

Cleaning the rear screen

To avoid damaging the heating and radio 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.

Polishing paintwork and brightwork

For maximum protection against road dust, salts, industrial fall-out etc., it is recommended that the vehicle is polished regularly using Jaguar Polish and a Polishing Cloth.

Note: *The vehicle's brightwork should be cleaned in the same way as the paintwork: Chrome polish or other abrasive cleaners must not be used.*

Paint chips

Scratches and chips should be touched in before weathering action begins. Inspect the paintwork immediately after the vehicle has been washed.

Underbonnet cleaning

Underbonnet cleaning using high pressure hoses or steam cleaners should be done by a Jaguar Dealer/Authorised Repairer. Indiscriminate use of cleaning equipment could damage or contaminate the electronic control modules and fuse boxes.

Care of Alloy Road Wheels

The alloy road wheels are covered with a protective anti-corrosion coating. To prevent corrosion it is essential that this coating is not damaged.

When removing or fitting tyres always advise the tyre fitter to treat the alloy wheels with great care and to only use equipment with spigot or stud hole clamping. The equipment must not have any moving parts which contact the wheel, and tyre levers must not be used.

Wash the wheels with soap and water at two week intervals to avoid an accumulation of particles which could become embedded in the wheel surface. In salty conditions the wheels should be cleaned weekly.

Jaguar acid-free wheel cleaner can be used to remove heavy soiling, however, non-approved acid based cleaners should not be used.

In compliance with German Road Traffic Law the size of the wheel rims is stamped or cast on all wheels.

Electrical Accessories

Plug-in Accessories

**WARNING:**

Alterations to the electrical system, including the fitting of accessories not designed for this Jaguar, will cause damage to the electrical circuits and systems. In some circumstances this could result in a malfunction or fire. All accessory work should be entrusted to a Jaguar Dealer/Authorised Repairer.

Caution:

- Under no circumstances must the power supply be obtained directly from either battery terminal.
- The use of non-approved accessories can reduce the battery capacity and charge period to an unacceptable level, therefore, Jaguar cannot accept any liability for the fitment of any such item.

Earth Points

If an accessory needs to be connected to an earth point, consult a Jaguar Dealer/Authorised Repairer.

Caution: Under no circumstances must holes be drilled in the bodywork to accept earth terminals.

L

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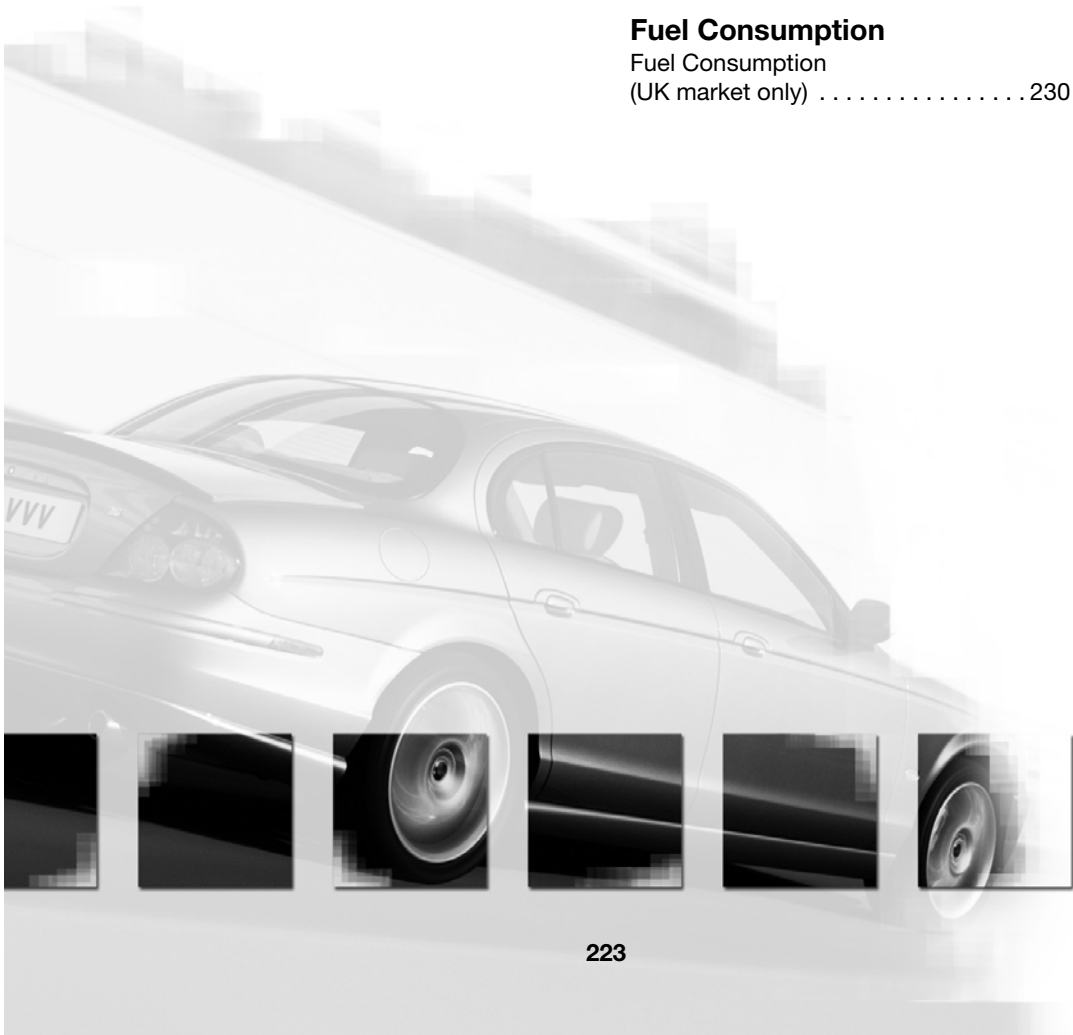
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L

Engine Data

Engine Data

Engine	2.5 litre	3.0 litre	4.2 litre	2.7 litre diesel
Type	V6, dual overhead camshafts, 4 valves per cylinder	V6, dual overhead camshafts, 4 valves per cylinder	V8, dual overhead camshafts, 4 valves per cylinder	V6, dual overhead camshafts, 4 valves per cylinder
Capacity	2495 cm ³ (152 inch ³)	2967 cm ³ (181 inch ³)	4196 cm ³ (256 inch ³)	2720 cm ³ (166 inch ³)
Bore	81.6 mm (3.212 inch)	89.0 mm (3.504 inch)	86.0 mm (3.386 inch)	81.0 mm (3.188 inch)
Stroke	79.5 mm (3.130 inch)	79.5 mm (3.130 inch)	90.3 mm (3.555 inch)	88.0 mm (3.464 inch)
Compression ratio	10.5:1	10.5:1	11.0:1 (normally aspirated) 9.1:1 (super-charged)	17.3:1

Dimensions

Dimensions

	mm	inch
Overall length	4905	193.1
Overall width including mirrors	2060	81.1
Overall width without mirrors	1819	71.6
Overall height at gross vehicle weight (nominal)	1447	57.0
Wheelbase	2909	114.5
Turning circle (kerb to kerb)	11.48 metres	37.7 feet

Track:

For the required information please consult your Jaguar Dealer/Authorised Repairer.

Weights

Weights (Average/Approximate)

	Vehicles with V6 petrol engines		Vehicles with V6 diesel engines	
	kg	lb	kg	lb
Kerb weight (no options fitted)	1620	3572	1722	3796
Front axle kerb weight	835	1841	953	2101
Rear axle kerb weight	785	1731	769	1695
Gross vehicle weight (G.V.W.)	2180	4806	2255	4972
Gross front axle weight	1000	2205	1077	2375
Gross rear axle weight	1180	2601	1178	2597
Gross combination weight (except V6 2.5 litre manual)	4030	8885	4105	9052
Gross combination weight (V6 2.5 litre manual only)	3780	8335		

	Vehicles with V8 engines (normally aspirated)		Vehicles with V8 engines (supercharged)	
	kg	lb	kg	lb
Kerb weight (no options fitted)	1735	3826	1800	3969
Front axle kerb weight	920	2029	965	2128
Rear axle kerb weight	815	1797	835	1841
Gross vehicle weight (G.V.W.)	2195	4839	2255	4972
Gross front axle weight	1030	2271	1077	2375
Gross rear axle weight	1165	2568	1178	2597
Gross combination weight	4045	8919	4105	9052

Note: Gross combination weight is the gross vehicle weight plus recommended trailer weight.

Load Weights

Roof-rack Capacity and Trailer Weights

Roof-rack Weight	kg	lb
Roof-rack (Jaguar approved only) capacity including weight of rack	75	165
<i>Note: The roof-rack capacity shown above is included in the total vehicle carrying capacity, and the maximum permissible axle weights shown on the Vehicle Identification Plate must not be exceeded. In addition, the tyres must be inflated to the pressures given for speeds above 160 km/h (100 mph).</i>		
Luggage Compartment Weight		
Maximum permitted luggage compartment load with four passengers and driver	60	132
<i>Note: The maximum permitted luggage compartment load shown above can be exceeded provided that the requirements regarding the maximum permissible axle weights and tyre pressures are followed.</i>		
Trailer Weights		
Braked (petrol except V6 2.5 litre manual)	1850	4070
Braked (petrol V6 2.5 litre manual only)	1600	3528
Unbraked (petrol maximum recommended)	750	1650
Braked (diesel automatic)	1850	4070
Braked (diesel manual)	1850	4070
Unbraked (diesel maximum recommended)	750	1650
Trailer nose load	75	165

Wheels and Tyres

Recommended Tyre Fitment

The following chart details the tyres recommended for use in the countries listed below:

- A.** Australia, Bahrain, Egypt, Israel, Jordan, Kuwait, Lebanon, Malaysia, Mexico, Morocco, Oman, Qatar, Saudi Arabia, South Africa, Syria, Thailand, United Arab Emirates.
- B.** Argentina, Belarus, Brazil, Bulgaria, Chile, Dominican Republic, Estonia, Guatemala, Indonesia, Kazakhstan, Panama, Philippines, Russia, Sri Lanka, Ukraine, Uzbekistan.

2.5 litre petrol

Tyre size	Pattern	A	B
235/50R17 96Y	Pirelli P6000 Powergy	yes	no
235/50R17 96W	Pirelli P Zero	yes	yes
245/40R18 97Y	Pirelli P Zero	yes	yes

3.0 litre, 4.2 litre petrol and 2.7 litre diesel

Tyre size	Pattern	A	B
235/50R17 96Y	Pirelli P6000 Powergy	yes	no
235/50R17 96W	Pirelli P Zero	no	yes
245/40R18 97Y	Pirelli P Zero	yes	yes

S-TYPE 'R' Wheels

Wheel size	Tyre size/manufacturer	A	B
8 x 18 ('R' model - front)	245/40 ZR 18 Continental ContiSport Contact	yes	yes
9.5 x 18 ('R' models - rear)	275/35 ZR 18 Continental ContiSport Contact	yes	yes

For all other countries refer to your local Jaguar Dealer/Authorised Repairer for specific tyre fitment.

Fuel Consumption

Fuel Consumption (UK market only)

	Urban cycle		Extra-urban cycle		Combined		
	l/100 km	mpg	l/100 km	mpg	l/100 km	mpg	CO ₂ g/km
2.5 litre V6 Manual	13.3	21.2	7.3	38.7	9.5	29.6	229
2.5 litre V6 Auto	14.5	19.4	7.9	35.8	10.3	27.4	249
3.0 litre V6 Manual	14.7	19.2	7.7	36.7	10.3	27.4	249
3.0 litre V6 Auto	15.3	18.5	8.0	35.1	10.7	26.4	259
4.2 litre V8 Auto, Normally aspirated	17.1	16.5	8.2	34.2	11.5	24.5	274
4.2 litre V8 Auto, Super-charged	18.5	15.3	9.2	30.5	12.5	22.5	314
2.7 litre V6 Auto, Diesel	10.9	25.9	6.1	46.5	8.0	36.0	208
2.7 litre V6 Manual, Diesel	9.7	29.2	5.7	49.7	7.1	40.0	189

Diesel engines only: Driver's should expect above normal fuel consumption when the engine is new and 'bedding-in'. After a period, the fuel consumption will gradually improve to expected fuel consumption levels.

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