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Jaguar S-TYPE Driver's Handbook

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

To complement the features, systems and technology of your new vehicle we have produced this Driver's Handbook. In it we have undertaken to make the control of complex systems easy to understand and operate.

The information contained herein 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.

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.

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General information

Whether you are new to the Jaguar marque or have previously owned Jaguar or Daimler 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.

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

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

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

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 replaced.

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, low impedance voltmeters, etc.). The fitting of any electrical accessory should only be entrusted to a Jaguar Dealer.

Genuine Jaguar parts and accessories

Your Jaguar Dealer 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 stock a large number of parts to keep your vehicle maintained and back on the road as quickly as possible. Their service is backed-up by Jaguar's central parts warehouse in Coventry, England, providing next day delivery to most of Europe's Dealers and world-wide within two to three days.

1-2 Owner Information

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.

Vehicle literature

The vehicle literature is in a single pack and comprises the following:

- Quick Reference Guide.
- Driver's Handbook.
- Audio Systems Handbook
- Voice Activation Handbook (where fitted in USA only).
- Navigation Handbook (where fitted in USA only)
- Passport to Service (Except Mexico).
- Service Record and Warranty Book (Mexico only).

Regular servicing

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

Owners are responsible for the regular maintenance and servicing of the vehicle. Jaguar Dealers 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.

USA and Canada:

Jaguar Dealers will arrange for appointments on a mileage/distance or time interval basis to ensure that all routine and corrective maintenance work is undertaken and recorded in the 'Passport to Service' Booklet. This booklet not only contains a record of vital information, but also information about warranties, Jaguar Cars, Jaguar Car Clubs, Tire Manufacturers and change of ownership or address vouchers.

Mexico:

Jaguar Dealers will arrange for appointments on a mileage/distance or time interval basis to ensure that all routine and corrective maintenance work is undertaken and recorded in the Service Record and Warranty Book. This booklet not only contains a record of vital information, but also information about warranty and a change of ownership card.

Warranties

USA and Canada

The 'Passport to Service' Booklet contains warranties applicable to the vehicle, which include:

- The Limited vehicle Warranty.
- The Emission Control System Warranty and covered parts list.
- The Corrosion Warranty.

Note: Tires are not warranted by Jaguar Cars, but by the specific manufacturer of the tires on the vehicle. Details of tire warranties are included in the vehicle literature pack.

Mexico

The Service Record and Warranty Book contains warranties applicable to the vehicle, which include:

- The Limited vehicle Warranty.
- The Emission Control System Warranty and covered parts list.
- The Corrosion Warranty.

Vehicle identification

Vehicle Identification and Certification Label

The USA, Canada and Mexico Certification Label is adhered to the left-hand front door shut face below the door lock assembly and is visible when the door is opened.

The label indicates the month and year of manufacture and the Vehicle Identification Number, it also provides paint and trim codes.

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.

Transmission number

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

Engine number

V6: Stamped on a raised/machined boss above the oil pan seam directly behind the oil filter adapter plate.

V8: Stamped on a raised pad on the front of the engine block near the thermostat housing.

Tire information

All tires fitted to vehicles sold in the USA, Canada and Mexico have data, necessary to conform to Federal Regulations, moulded onto the tire.

The data on the tires gives the following information:

Maximum pressure.

Maximum load rating.

Further information is given on the tire recommendation label located on the driver's door post as follows:

Vehicle capacity weight.

Designated seating capacity.

Designated seating distribution.

Recommended tire pressures.

Recommended tire size.

1-4 Owner Information



Warning symbols on the vehicle

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.

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

Warnings and cautions

Take particular note of WARNINGS and CAUTIONS 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.

Reporting Safety Defects (USA only)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Jaguar Cars.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign.

However, NHTSA cannot become involved in individual problems between you, your Dealer, or Jaguar Cars.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to:

NHTSA, U.S. Department of Transportation, Washington, D.C. 20590.

To contact Jaguar Cars, call 1-800 4 Jaguar.

You can also obtain other information about motor safety from the Hotline.

Health and safety



WARNING:

1. 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 antifreeze, brake fluid, fuel, windscreen washer additives, lubricants and various adhesives.
2. The presence of any unusual fumes (e.g. petrol or exhaust fumes) in the passenger compartment and/or luggage compartment should be corrected immediately by a Jaguar Dealer. If you must drive under these conditions do so only with all windows fully open.
3. By operating other electronic equipment (for example; a mobile phone without an exterior antenna) electromagnetic fields can cause malfunctions of the vehicle electronics. Therefore, you should observe the instructions of the equipment manufacturers.
4. 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.
5. 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.
6. No attempt should be made to repair a fuse that has blown. Always install a 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.
7. 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.
8. 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.
9. California Proposition 65:

Engine exhaust, some of its constituents and certain vehicle components, contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

1-6 Owner 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.

Check the laws and regulations on the use of cellular telephones in the areas where you drive. Always obey them. Also, give full attention to driving.

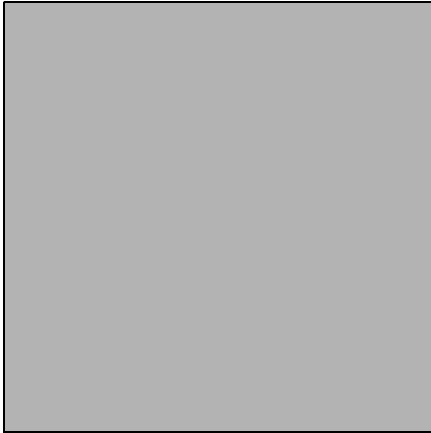
Use hands-free operation (if fitted) and pull off the road and park before making or answering a call if driving conditions so require.

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, tires, engine, brake and coolant fluids at your local authorised waste disposal facilities.



Ignition switch

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

0 __ ignition OFF, and the only position in which the key can be inserted or removed.

I __ auxiliary position: this position allows use of some electrical circuits, for example, window operation.

Note: The airbag system is activated when the switch is turned to position 'I'.

II __ ignition ON, all electrical circuits except the starter motor are activated. The key remains in this position when driving.

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

If a key is left in the ignition switch and a door is opened, a key-in reminder chime will sound. The chime will stop when the door is closed or the key is removed from the switch.

To remove the ignition key

Apply the handbrake and turn the key to position '0'.

Vehicles with automatic transmission have a key interlock feature.

The automatic transmission gear selector must be placed in Park 'P' before the key can be removed from the ignition switch. Removing the key will lock the gear selector in Park.

Note: To move the gear selector from Park, see 'Gear-shift interlock' on page 4-41.

2-2 Security and locks

Vehicle security

When leaving the vehicle unoccupied, remember the following:

- Whenever the vehicle is being parked, apply the handbrake and with automatic transmission, move the gear selector to Park 'P'.
- 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.

- Do not leave children or pets in the vehicle unattended.
- Ensure that the keys and the key-ring transmitter are removed from the vehicle before locking the doors, and that all doors, the luggage compartment and the hood are closed.

Battery reconnection

If the battery is disconnected, the alarm system will re-arm when the battery is reconnected.

Ensure that a key-ring transmitter or key is available to disarm the alarm system when reconnecting the battery.

Security features

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.

Keys

Three keys are supplied with the vehicle. The key number is recorded on a plastic tag which is attached to each key. Detach the tag and keep safely, not in the vehicle.

Each black-headed key will operate the ignition switch and lock the doors, luggage compartment and the glove box.

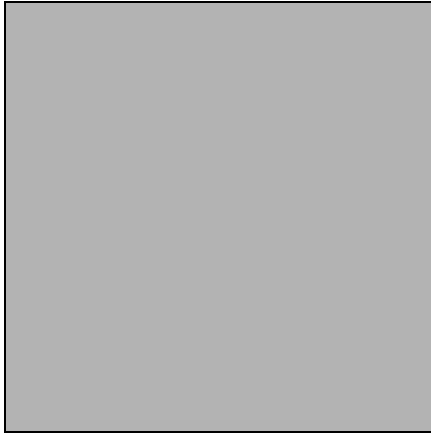
The green-headed key is a valet key which will not unlock a locked glove box or locked luggage compartment lid when the valet switch has been set.

It is important to keep your keys and key-ring transmitters 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.

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 the vehicle electronics recognise the correct key and allow engine start. The engine cannot be started with a key not programmed to the vehicle electronic systems.

Up to eight keys can be used provided a Dealer programmes them all to the vehicle.

2-4 Security and locks



1. Locks and arms the vehicle.
2. Unlocks and disarms the vehicle.
Pressing and holding the button will globally open the vehicle windows (and sunroof, if fitted), see page 2-7.
3. Releases luggage compartment lock.
4. Sounds the Panic alarm.

Key-ring transmitters

The security system is controlled remotely by a radio frequency, battery-operated transmitter.

The transmitter is activated by pointing it towards the vehicle and pressing one of the operating buttons.

Key-ring transmitters will not operate if a key is in the ignition switch.

Two transmitters are supplied with the vehicle, but up to four can be used provided they are all programmed to the vehicle by a Dealer.

Care of key-ring transmitters

The key-ring transmitters must be treated with care and not exposed to extremes of heat, dust, humidity or be in contact with fluids. The battery is the only serviceable part.

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

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



Transmitter battery renewal

When the battery needs renewal there will be a significant decrease in the effective range of the key-ring transmitter.

To renew the battery, insert a slim blade into the groove between the covers and prise the covers apart exposing the battery cell. Fit a new cell, type CR2032, available from your Jaguar Dealer, with the side marked with the positive symbol (+) downwards in the battery receptacle. Refit the cover and click into place with thumb pressure.

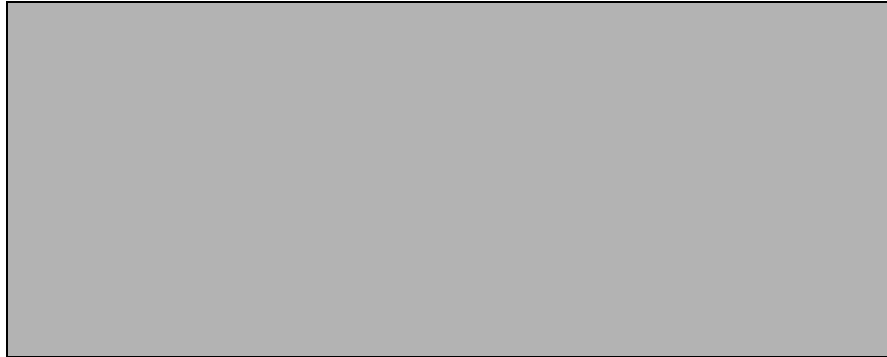
Radio frequency approval

The radio frequency remote system operates on a radio frequency subject to USA Federal Communications Commission (FCC) rules.

This device complies with Part 15 of the FCC rules and RSS-210 of the Industry Canada. Operation is subject to the two following conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

2-6 Security and locks



Door locks and handles

Only the driver's door has a key lock.

The luggage compartment and glove compartment can be locked and unlocked, but only with a black-headed key.

All doors and the luggage compartment can be locked and unlocked using a key-ring transmitter.

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 the driver's door only, will then become unlocked.

If the front passenger door locking lever is used to lock the doors then all doors will become locked and then unlocked. The vehicle can then be locked using the key in the driver's door lock or a key-ring 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-ring transmitter, or
- Put the key in the driver's door lock, turn the key clockwise and release.

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

If a door, the hood or the luggage compartment lid are open and an attempt is made to lock the vehicle, the direction indicators will flash five times as a warning that the vehicle is not secure.

Note: If the key-ring transmitter lock button is pressed twice within three seconds, the horn will chirp to indicate that the vehicle is locked and armed.

To unlock the vehicle and disarm the alarm system

- Press the unlock button on the key-ring transmitter, once to unlock the driver's door and then press again to unlock the passenger doors.

This unlocks all doors and the luggage compartment.

- Put the key in the driver's door lock, turn the key anti-clockwise and release.

This only unlocks the driver's door; a second turn is required to unlock all doors and the luggage compartment.

Unlocking the vehicle turns on the interior lights for twenty seconds. The exterior direction indicators give two flashes as unlocking takes place.

Global closing



WARNING:

Ensure that all occupants are kept clear of the windows and sunroof aperture.

Using the key in the driver's door, lock the vehicle and hold in this position to close all the windows (and sunroof, if fitted).

Global opening

Press and hold the key-ring transmitter unlock button, or use the key to unlock the vehicle and hold in this position to open all the windows (and sunroof, if fitted).

2-8 Security and locks



Internal door locking and unlocking

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

To lock a rear door, press the lock lever.

To unlock a front door, pull the release handle or the lever.

To unlock a rear door, pull the lock lever.

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

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 this feature to operate, the ignition switch must be in position 'II', the gear selector lever moved out of the 'P' or 'N' position and the vehicle moving forward at a speed above 3 mph (5 km/h).

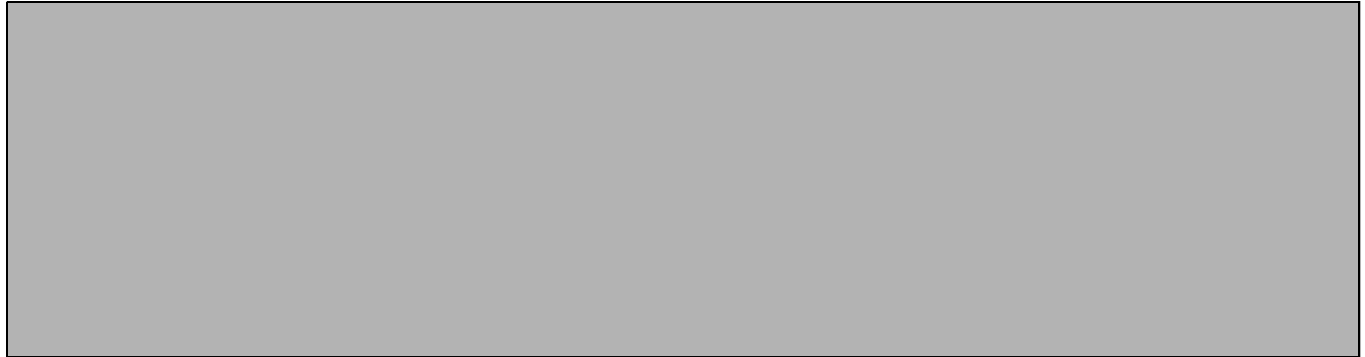
If a door is opened during a journey, the doors will automatically lock again when the vehicle starts to move.

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



Valet switch

Before handing the green-headed valet key to the parking attendant, open the glove box, press the valet switch and then close and lock the glove box with a black-headed key. The attendant can then lock the car after parking, but cannot open the glove box or the luggage compartment.



Luggage compartment

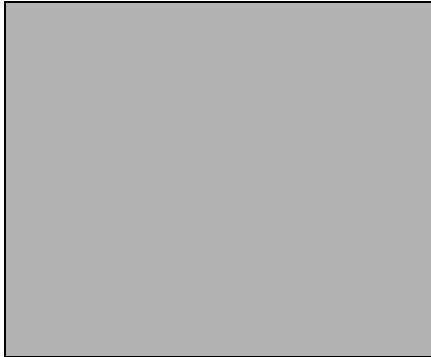
To open the luggage compartment:

- press the luggage compartment lid release switch **(A)** on the fascia switchpack or,
- press the luggage compartment button **(B)** on the key-ring transmitter or,
- with the vehicle unlocked, press the release button **(D)** on the compartment lid.

Note: A black-headed ignition key can be used to open the luggage compartment lid release lock **(C)**, (turn clockwise to release), but opening with the key when the vehicle is armed will cause the alarm to sound. Use a transmitter, or unlock the vehicle with a key or put a key in the ignition and turn to position 'II', to turn the alarm off if it sounds as a result of opening with a key.

If the vehicle alarm system is armed and the luggage compartment is opened using the key-ring 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.

2-10 Security and locks



Glove compartment

The glove compartment may only be locked and unlocked with a black-headed ignition key.

To open the glove compartment, lift the handle and allow the lid to drop down. The compartment will be illuminated when open.

Note: If the compartment is left open the lamp will extinguish approximately 40 minutes after the ignition has been set to position '0'.

Security light

If an ignition key is placed in the ignition switch and turned to position 'II' and the alarm security light on the fascia is flashing, it is possible that the engine will not start. In any event, please contact a Jaguar Dealer to investigate the cause of the light flashing.

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.

Error signal

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

- If any door is open when an attempt to 'arm' the security system is made.
- The luggage compartment or the hood is not properly closed when an attempt to 'arm' the security system is made.

Full alarm

Once armed, any of the following circumstances will create a full alarm state:

- Opening a door using the interior handle,
- Opening the luggage compartment lid (except with transmitter) or hood.
- Using a key in the ignition switch which is not programmed to the vehicle.

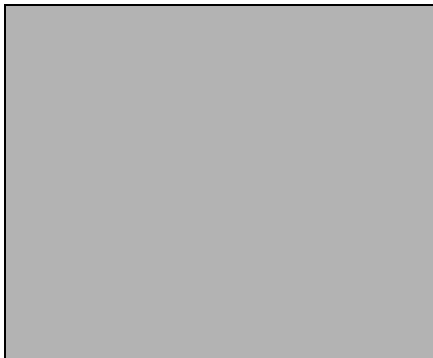
Panic alarm

When in or near the vehicle, the 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 panic button on the key-ring transmitter will activate the 'Panic Alarm'.

The Panic Alarm will sound for the normal full alarm period. The alarm is stopped by putting the key into the ignition switch and turning to position 'II'.

The key-ring transmitter can be used to cancel the Panic Alarm by pressing either the panic button or the unlock button.



HomeLink® universal transceiver

The three-button HomeLink universal transceiver is fitted in the driver's sunvisor. HomeLink can be programmed to transmit the radio frequencies of up to three different transmitters used to activate garage doors, gates, home lighting, security systems, or other radio frequency operated devices.

For further information or if you require assistance please contact your Jaguar Dealer or

HomeLink
telephone: 1-800-355-3515 or on the internet at www.homelink.jci.com.



WARNING:

- 1. Do not use the HomeLink universal transceiver with any garage door opener that lacks the safety stop and reverse feature as required by federal safety standards. (This includes any garage door opener model manufactured before April 1, 1982.) A garage door opener which cannot detect an object, signalling the door to stop and reverse, does not meet current federal safety standards. Using a garage door opener without these features increases risk of serious injury or death.**
- 2. When programming the HomeLink universal transceiver to a garage door opener or entry gate, make sure that people, the vehicle and objects are out of the way to prevent potential harm or damage as the gate or garage door will activate during the programme.**

Programming

1. Switch off the engine.
2. Press and hold the two outermost buttons on the sunvisor, releasing when the indicator light begins to flash (after 20 seconds). Do not repeat this step when programming the remaining buttons.
3. Hold the end of the hand-held transmitter of the device you wish to train approximately one to three inches away from the chosen HomeLink button, keeping the indicator light in view.
4. Using both hands, simultaneously push the hand-held transmitter button and the chosen HomeLink button. Do not release the buttons until step 5 has been completed.

Note: Some entry gates and garage door openers may require you to replace step 4 with the procedures shown in the “Canadian Programming” section on the following pages.

5. The HomeLink indicator light will flash, first slowly and then rapidly. When the indicator light flashes rapidly, release both buttons.

The rapid flashing light indicates successful programming of the frequency signal.

If you are programming a rolling code equipped device, continue with the procedures outlined in “Rolling code programming”.

To programme the remaining buttons, follow steps 3 through 5.

Your device should now operate by pressing and releasing the programmed HomeLink button. If the device does not operate you may need to complete the steps outlined in “Rolling code programming” or call 1-800-355-3515 for assistance.

Rolling code programming

Rolling code garage door openers (or other rolling code devices) which are “code protected” may be determined by the following:

- reference the device owner’s instruction manual for verification.
- the hand-held transmitter appears to programme the HomeLink universal transceiver but does not activate the garage door.
- press and hold the trained HomeLink button. The device has the rolling code feature if the HomeLink indicator light flashes rapidly and then turns solid after two seconds.

To train a garage door opener or other device with the rolling code feature, follow these steps after completing the Programming section instructions on the previous page.

Note: The aid of a second person may make the following training procedures quicker and easier.

2-14 Security and locks

1. Locate the “learn” or “smart” button on the garage door opener motor head unit. Exact name, location and colour of the button may vary by garage door opener brand. If there is difficulty locating this button, reference the garage door opener instruction manual or contact HomeLink.
2. Firmly press and release the “learn button” on the garage door opener motor head unit.

Note: Following step 2 there are 30 seconds in which to initiate step 3.

3. Firmly press and release the HomeLink button. Press and release the HomeLink button a second time to complete the training process. Some garage door openers may require you to do this step a third time to complete the training.

The device should now recognise the HomeLink signal and activate when the HomeLink button is pressed. The remaining two buttons may now be programmed if this has not been previously done.

Canadian programming

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

Continue to press and hold the desired HomeLink button (note steps 3 through 5 in the programming section) while you cycle your hand-held transmitter until the frequency signal has been learned. The indicator light will flash slowly and then rapidly upon successful training.

Note: If programming a garage door opener or entry gate, it is advised to unplug the device during the cycle process to prevent possible motor burn-up.

To operate simply press the programmed HomeLink button. Activation will now occur for the trained product (garage door, security system, entry door lock, estate gate or home or office lighting). For convenience, the hand-held transmitter for the device may be used at any time.

Erasing programmed HomeLink buttons.

Individual buttons cannot be erased, however, to erase all three programmed buttons:

1. Press and hold the two outermost buttons until the indicator light begins to flash after 20 seconds.
2. Release both buttons.

The HomeLink universal transceiver is now in the train, or learning, mode and can be programmed at any time following steps 3 to 5 in the “Programming” section.

Reprogramming a HomeLink button

To programme a device to HomeLink using a button previously trained, follow these steps;

1. Press and hold the desired HomeLink button. Do not release until step 4 has been completed.
2. When the indicator light begins to flash slowly (after 20 seconds), position the hand-held transmitter 1 to 3 inches away from the HomeLink surface.
3. Press and hold the hand-held transmitter button.
4. The HomeLink indicator light will flash slowly and then rapidly. When the indicator light begins to flash rapidly, release both buttons.

The previous device has now been erased and the new device can be activated by pushing the HomeLink button that has just been programmed. This procedure will not affect any other programmed HomeLink buttons.

Compatible accessories

If you would like additional information on the HomeLink universal transceiver, HomeLink compatible products or to purchase other accessories such as the HomeLink lighting package contact your Jaguar Dealer or Homelink call 1-800-355-3515 or on the internet at www.homelink.jci.com.



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.

Occupant protection

Seat belts

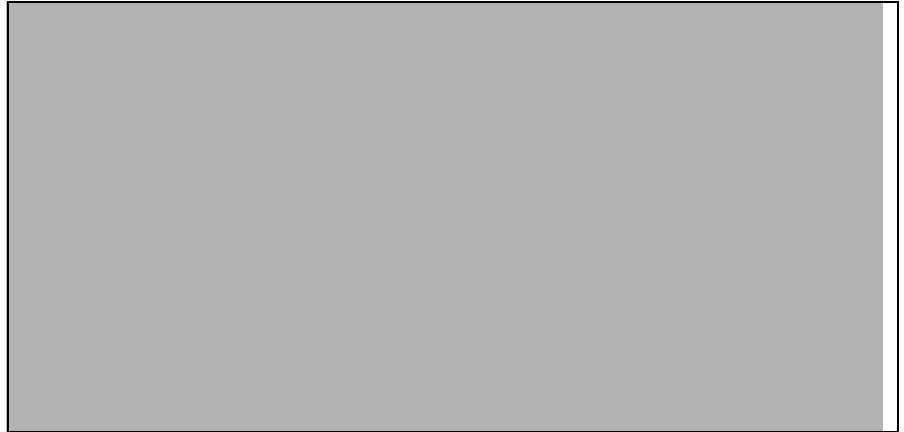
The use of front and rear seat belts is mandatory in most countries.

Using seat belts saves lives. They should be worn by all occupants whenever the vehicle is in use, for maximum protection.

This vehicle has lap/shoulder inertia reel seat belts and airbag supplemental restraint systems for the driver and front passenger. The rear seat has three lap/shoulder inertia reel seat belts.

The inertia operating mechanism of the seat belts allows the wearers to move their upper bodies to reach various controls. The seat belts will lock automatically with accelerated body movement or in the event of emergency braking. Both front seat belts are equipped with pretensioners to assist restraint and safety belt force limiters to help minimise the risk of upper body injuries.

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



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 recommended.

Always 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.

Note: If the vehicle is parked on unlevel ground, the seat belt mechanism may lock. This is not a fault, gently ease the belt from its attachment to unlock it.

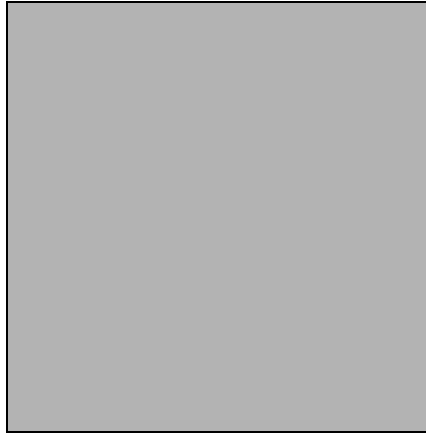
3-2 Before driving

All passenger's seat belts (not the driver's) also have an automatic locking device for use with child seats. The belt, once fitted to secure a child seat with all the slack removed, will automatically lock in this position and further extraction of the belt is inhibited.

To activate the static reel (child seat) mode, pull the belt to its full extension to engage the ratchet mechanism. With the child seat in the required position insert the belt's tongue into the buckle. Retract the belt back onto the reel; a ratchet operation may be felt as the belt retracts. Continue to pay the belt back onto the reel until it fits snugly around the child seat.

Unclipping the belt buckle and releasing the child seat will allow the belt to resume its normal operation.

To release the seat belt, press the button on the buckle unit and allow the belt to retract into the reel.



The only adjustment required is for shoulder height. An adjustable anchorage point is provided to ensure that the seat belt webbing can be positioned to pass over the shoulder without pulling against the neck.

To operate: Press the locking button and slide the anchorage point to the required position to ensure comfort and safety. 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.

Inertia reel mechanism check

Static test: Whilst seated, fasten the seat belt and grip the shoulder belt at approximately shoulder level with the opposite hand. Pull the belt sharply downwards, the belt should lock.

Road test: The following road test must be carried out only under maximum safe road conditions.

With the seat belt correctly fitted to the driver and passenger(s), drive the vehicle at 5 mph (8 km/h) and, ensuring that it is safe to do so, brake sharply.

The seat belt(s) should lock automatically, holding both driver and passenger(s) securely in position.

It is important when braking that the reactions of both driver and passenger(s) are normal, that is, the body must not be thrown forward in anticipation, thus causing a snatching action of the belt which would operate the locking mechanism.

If the belt fails to lock on either test, consult a Jaguar Dealer.



WARNING:

1. Seat belts are designed to bear upon the bony structure of the body, and must be worn low across the front of the pelvis, chest and shoulder. Wearing the lap section of the belt across the abdominal area must be avoided. Always ensure that the webbing is midway between the neck and the edge of the shoulder.
2. 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.
3. 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.
4. 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.
5. Belts should not be worn with the webbing twisted.
6. 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.
7. No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating, or prevent the seat belt assembly from being adjusted to remove slack.
8. Should the seat belt not retract and remain at its static length, consult your nearest Jaguar Dealer immediately.

3-4 Before driving



Airbags (Supplemental Restraint Systems)

In order to provide optimum protection this vehicle is equipped with front and side airbags for driver and front seat passenger. These are supplemental restraint systems which are used in conjunction with the seat belts to help protect the driver and front seat passenger from upper body and head injuries.

Airbag warning light information is shown on page 4-3.

An alert label on the front face of the driver's and passenger's sunvisor directs you to read the warning label on the rear face of each sunvisor. The warning label contains the following statement:



WARNING:

**DEATH or SERIOUS INJURY can occur.
Children 12 and under can be killed by the airbag.
The BACK SEAT is the SAFEST place for children.
NEVER put a rear-facing child seat in the front.
Sit as far back as possible from the airbag.
ALWAYS use SEAT BELTS and CHILD RESTRAINTS**

To do their life-saving job, airbags open with a great deal of force and this force can pose a potentially dangerous risk in some situations, particularly when a front seat occupant is not properly restrained with the seat belt.

Airbags do not inflate slowly or gently and 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.

The driver airbag is located in the centre of the steering wheel and the front seat passenger airbag is located in the fascia panel immediately in front of the passenger seat. The side airbags are fitted within the driver and front passenger seats, outboard seat bolster, and are identified by a label on the seat.



WARNING:

1. No objects whatsoever should be attached to the centre cover of the steering wheel, the passenger fascia panel or the sides of the driver and front passenger seats. 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.
2. Safety experts recommend a minimum distance of at least 10 inches (254 mm) between an occupant's chest and a front airbag.
3. Children 12 years old and younger can be killed or seriously injured by the airbag. The rear seat is the safest place for children.
4. DO NOT install a rearward-facing child seat in the front passenger seat position. This is emphasised by the label displayed on the end of the fascia on the front passenger side, as shown on the illustration. If however, you must sit a child in the front passenger seat use only a forward facing child seat with the passenger seat set fully rearward. Always follow the fitting instructions supplied with the appropriate child restraint system.
5. 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. Always use JAGUAR APPROVED seat covers as non-recommended covers could affect the performance of the side airbags.
6. Several airbag system components get hot after inflation. Do not touch them after they have deployed.
7. If an airbag is inflated, the airbag will not function again and must be replaced immediately. If the airbag is not replaced the unrepaired area will increase the risk of injury in a collision.

3-6 Before driving

The noise and gas associated with the deployment of the airbags is not injurious to health.

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 sodium hydroxide 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.

Because airbags must inflate rapidly and with considerable force, there is the risk of death or serious injuries such as fractures, facial and eye injuries or internal injuries, particularly to occupants who are not properly restrained or are otherwise out of position at the time of the airbag deployment.



Front airbags

The front airbags are designed to activate when the vehicle suffers a frontal impact of sufficient force to cause the sensors to close an electrical circuit that initiates airbag inflation.

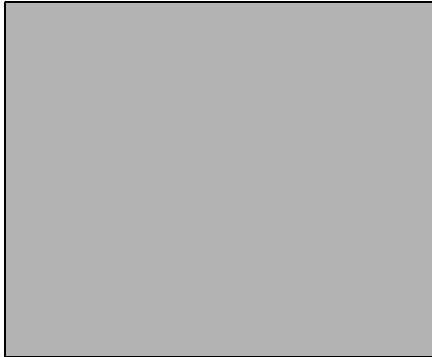
With the driver's and front passenger's airbag, the occupant, restrained by the seat belt, moves forward, the head and chest come into contact with the inflated bag.

The airbags which then deflate rapidly, in a controlled manner, via vent holes, absorb the remaining energy of the impact.

The fact that the airbags did not inflate in a collision does not mean that something is wrong with the system. Rather, it means the forces of the impact were not of the type sufficient to cause activation. Front airbags are designed to inflate in frontal and near frontal collisions, not roll-over, side-impact or rear-impact.

In circumstances where the airbags are not deployed, protection is provided by the seat belts. The severity of the collision is a function of the relative speed and weight of the vehicles or objects colliding.

Thus, it is extremely important that occupants be properly restrained as far away from the airbag as possible while maintaining vehicle control.



Side airbags

Side airbags are fitted to the driver and front passenger seats only. With the side airbags, the airbag inflates upon side impact and breaks through the seat bolster stitching, protecting the side of the rib cage and the head of the driver or front seat passenger.

The side airbag system consists of the following:

- An inflatable nylon bag (airbag) with a gas generator concealed behind the outboard bolster of the driver and front passenger seat backs.
- The same warning light, electronic control and diagnostic unit as used for the front airbags.
- Two crash sensors on the top of vehicle sill panels, attached to the floor by the rear door hinge posts.

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

In certain lateral collisions, the airbag on the side affected by the collision will be inflated even if the respective seat is not occupied. The airbag is designed to inflate between the door panel and occupant to further enhance protection in a side impact collision.

Side airbags are designed to inflate in a side impact collision, not roll-over, rear-impact, frontal or near-frontal collisions, unless the collision causes sufficient lateral deceleration.

3-8 Before driving

Wrong
Unbelted and too close

Use Seat Belts

Move Seat Rearwards

Recline Back of Seat

Tilt Wheel Down/Forwards

Correct
*Belted and 10 inches (254 mm)
or more away



WARNING:

Driver and front seat passenger should always move their seats as far rearwards as is practical.

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

Since the risk zone at the time of deployment is the first 2 inches to 3 inches (54 mm–75 mm) from the airbag cover, sitting back 10 inches (254 mm) 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.

- 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 yourself by using a firm, non-slippery cushion, or raise your seat, if your seat has that feature.
- Tilt the steering wheel/column downwards so as to point the airbag 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 airbag has plenty of room to deploy.

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 replacement at the end of its service life, must be carried out by an authorised Jaguar Dealer.

In the event of the vehicle being dismantled, airbag module removal and disposal **MUST** be made by a qualified person. Instructions can be obtained from an authorised Jaguar Dealer.

3-10 Before driving

Child safety

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

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.

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.

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 rear seats.

Children must be restrained by the use of a child safety restraint applicable to their weight and size and preferably of the 'LATCH' type. If the available child safety seat is not of the 'LATCH' type, the seat must be secured using one of the adult inertia reel seat belts.

Note: A range of safety restraints are available as Jaguar Accessories; consult your Jaguar Dealer for details.

Infant safety

Babies and small children who cannot sit up by themselves should be carried in an approved baby seat.

Wearing of child restraints

Ensure that there is no slack in the webbing and that 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 impact.

The lap strap should pass across the top of the child's thighs, bearing on the pelvis, not the abdominal area.



WARNING:

- 1. Do not try to put an adult seat belt around two children.**
- 2. 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.**
- 3. Choose a child seat that sits securely on the seat cushion and against the seat back.**

3-12 Before driving

LATCH system child restraints

The 'LATCH' (Lower Anchors and Tethers for Children) system is a universal anchorage system which allows the child safety seat to be secured directly and easily to the vehicle body without the use of the adult seat belts. 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 the child seat. The LATCH system reduces the likelihood of incorrect fitting and is also quicker and simpler to use.

The LATCH restraint system uses two anchorage hoops fixed to the vehicle body for each rear outboard seat position. The child seat, which must be specifically designed for LATCH system fitting, is clipped into the hoops via rigid extendable rails or a belt webbing. A quick release mechanism is usually incorporated to allow easy removal of the child seat.

The anchorage hoops are accessible through the gap between the rear seat back and cushion. Pull back the seat flap between the rear seat back and seat cushion to separate the Velcro fastening.



Note:

1. So as not to interfere with the fitment of large child seats, push the adult seat belt buckles into their buckle recesses.
2. When fitting a LATCH system child seat, the seat manufacturers instructions must always be followed.

When the child seat is removed from the car, return the rear seat flap to its original position to rejoin the Velcro fastening.

Child restraint upper tether anchorages

This vehicle has child restraint upper tether brackets already fitted. The three anchorage points are shown in the illustration by arrows.

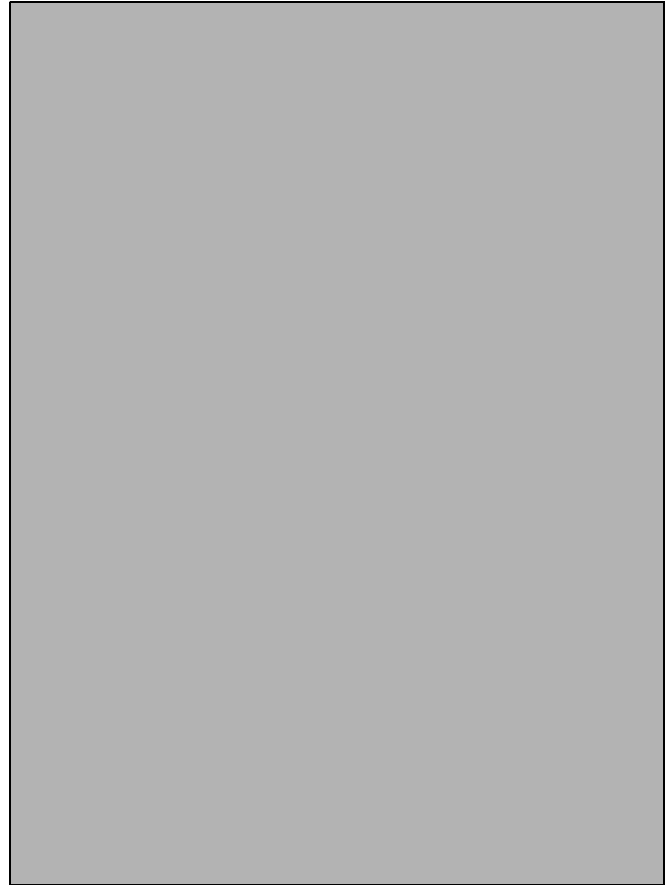
The tether brackets are fitted on the rear parcel shelf at the centre line of each rear seating position. The child restraint can be fitted directly to the bracket.

Note:

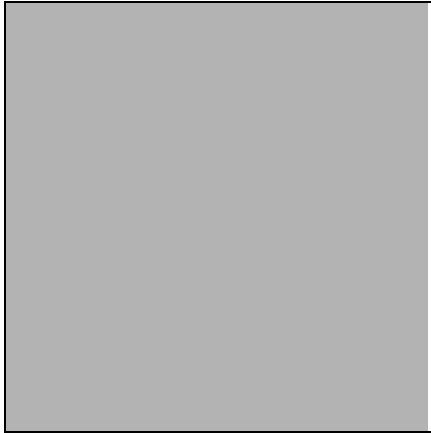
1. Always ensure that the child restraint assemblies are fitted in strict accordance with the child restraint manufacturer's instructions.
2. The restraint webbing must pass between the metal posts of the head restraint and be fixed securely to the bracket. Do not place the webbing over or around the headrest.

Look for the following when selecting a child restraint system:

- It should have a label certifying that it meets the applicable Motor Vehicle Safety Standards.
- 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. The label required by the standard or regulations, or instructions for infant restraints, usually provide this information.



3-14 Before driving



Seat adjustment



WARNING:

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

Front seat adjustment

A key does not have to be in the ignition switch for seat adjustment.

The front seats can be adjusted electrically by three switches on the side of the seat cushion.

- A.** controls the seat position.
To move the seat forward or rearward – move the switch forwards or rearwards.
Front/rear of cushion raise/lower – move the front or rear of the switch up or down.
- B.** controls the seat back angle.
Move the switch rearwards to recline or forwards to raise the seat back angle.
- C.** controls the lumbar support, (when fitted).
Press the front of the switch to increase support or the rear of the switch to reduce support.

Front seat head restraint adjustment

The front seat head restraints have height and tilt adjustment. Height adjustment can be to any one of four positions.

Rear head restraints

The two rear seat head restraints have height adjustment only. Height adjustment can be to any one of three positions.

Head restraint adjustment

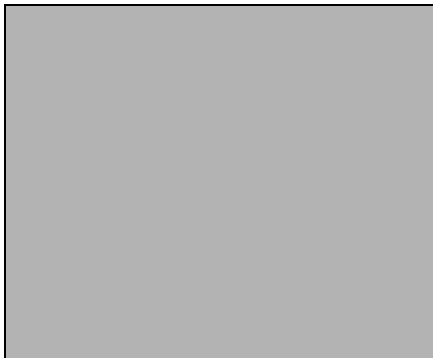


WARNING:
Adjust the head restraint so that it is just behind your head and never behind your neck.

To lower: press the lever in the escutcheon and lower 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.

3-16 Before driving



Front seat heaters (when fitted)

Each front seat back and cushion has a heater controlled by a switch on the centre console.

Press the switch to turn the heaters on. A light within the switch will show when the heater is ON. To cancel, press the switch again.

The heater will automatically switch OFF after it has been on for 10 minutes. 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.



Mirror adjustment

Door rear view mirrors

Both door mirrors are adjusted from the driver's door switchpack. The four-way adjustment button (A) moves the mirrors to the required position. The selector switch (B) selects the mirror to be moved, left for the left side mirror and right for the right side mirror.

When the selector switch is in the centre position, adjustment to either mirror is inhibited.



Each mirror housing, except the power fold back door mirror, is designed to pivot against the vehicle upon impact.

To return the mirror to its normal position, reposition the housing until it locks into place.

Note: 'Objects in mirror are closer than they appear', these words are etched into the lower edge of the passenger door mirror glass.

Door mirrors – power fold back (where fitted)

To assist parking by reducing the overall vehicle width, the door mirrors can be folded rearwards.

The switch is located in the driver's door map pocket.

To fold the mirrors inwards press the front of the button. Press the rear of the button to return the mirrors to their normal driving position.

Note:

1. Do not attempt to reposition power fold back mirrors manually. Always use the button.
2. Should a door mirror be 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.

3-18 Before driving

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.



Interior rear view mirror

Interior mirrors are either manual dip or electrochromic.

Interior rear view mirror – manual dip (where fitted)

The interior rear view mirror can be dipped to prevent glare from a following vehicle's headlamps by pulling lever (A). Pushing the lever returns the mirror to its day-time setting.



Note:

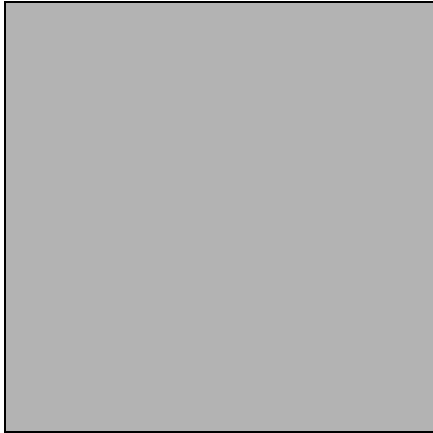
1. Should a mirror assembly become detached from the windscreen, it must be refitted by a Jaguar Dealer.
2. Ensure that the windscreen in front of the mirror is kept clean. Where fitted, the moisture sensor for wiper operation is located to the front of the mirror. Any dirt may affect the operation of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

**Interior rear view mirror –
electrochromic (where fitted)**

Push the switch in and the electrochromic rear view mirror darkens automatically to prevent glare from a following vehicle's headlamps. The mirror clears when light levels return to normal. The mirror also clears when reverse gear is selected.

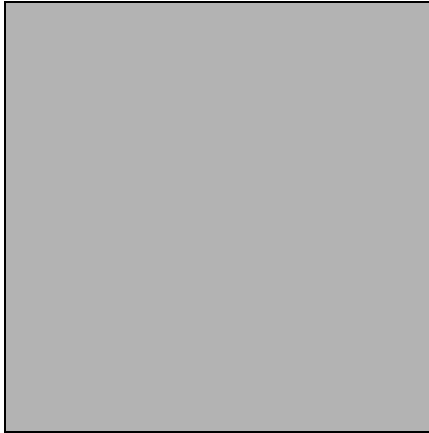
Push the switch again and the glare-reducing effect of the mirror is switched off so that a clear reflection is given.

3-20 Before driving



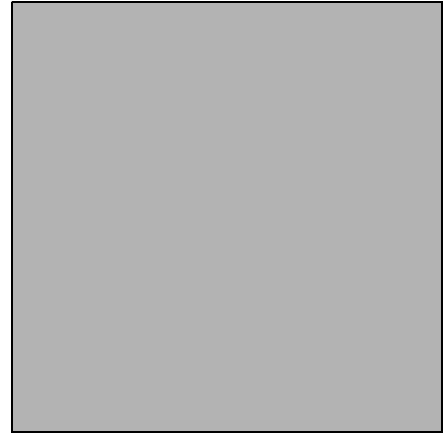
Compass

As an additional feature to some vehicles, a compass is fitted to the interior electrochromic mirror. The brightness of the compass display dims as the ambient light level falls.



Compass zone adjustment

Perform the adjustment in an open area free from overhead power lines or large metal structures. Insert a small screwdriver or other pointed tool into the hole (A). Press and hold the button in the hole until the word 'Zone' appears in the display.



Continue to press to select a number corresponding to the zone map for the area in the world where the vehicle is driven.

Press the button in hole (B) until the 'Cal' indicator appears in the display. Slowly drive the vehicle in a circle until the 'Cal' indicator disappears. This should happen after two or three revolutions.



Steering column adjustment



WARNING:

- 1. The vehicle must not be driven with the column in the entry/exit position.**
- 2. Do not adjust the steering column whilst driving.**

The steering column can be adjusted for tilt and reach by operating the four-way control switch on the steering column.

Moving the switch forwards and backwards controls steering column reach. Moving the switch up and down controls tilt.

Entry/exit mode (where fitted)

Entry/exit mode is selected by setting the steering column adjustment switch to the 'Auto' position.

When the key is removed from the ignition switch, the steering column will move to the tilt-away position, which is its uppermost tilt and innermost reach position. The seat will move rearwards. This gives the driver maximum room for entering and exiting the vehicle.

The steering column position before tilt-away is memorised.

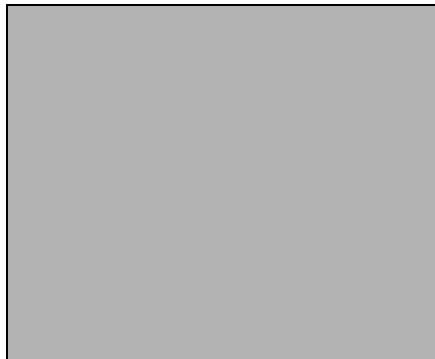
When the ignition key is next inserted in the ignition switch, the steering column and seat will move back to their programmed position.

If a new driving position memory is selected by pressing one of the memory buttons or unlocking the vehicle with the key-ring transmitter (if programmed), whilst the steering column is tilted away, the steering column will tilt back to the new selected driving position when the key is next inserted in the ignition.

Notes on entry/exit mode operation:

1. 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 the feature is then cancelled.
2. If the adjustment switch is moved during entry/exit operation, steering column movement will stop.
3. Driving position adjustments must not be made whilst in entry/exit mode.

3-22 Before driving



Memory setting (where fitted)

The position of the driver's seat, steering column and exterior rear view mirrors can 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 or steering column adjustment, nor for memory setting.

Setting a driving position

To store a driving position in the memory:

1. Adjust the seat, steering column and exterior rear view mirrors to the desired position.
2. Push the 'memory' button (A) and the light in the switchpack will illuminate.
3. Within five seconds, push button '1', or '2' to memorise the configuration. The light 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' or 'N'.

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

Memory recall using a key-ring transmitter

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

1. Adjust the seat, steering column and exterior rear view mirrors to the desired position.
2. Press 'memory' button.
3. Within five seconds, press any button on the key-ring transmitter.
4. Press button '1' or '2'.
5. Repeat for the other transmitter, pressing the remaining memory button.

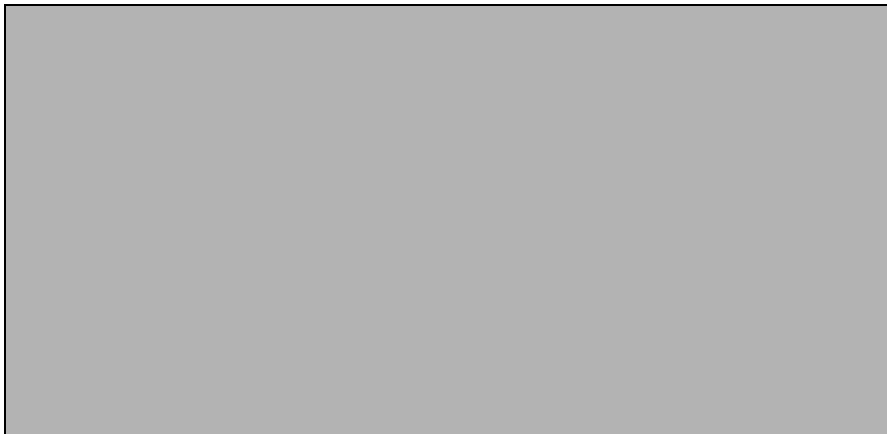
To cancel key-ring transmitter memory recall:

1. Press the 'memory' button.
2. While the memory set light is ON, press any button on the key-ring transmitter, (except the panic button, if fitted), then press the 'memory' button again.

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 if the memory button light is ON (five second period).
- Previous memory is erased when a new driving position is entered.

3-24 Before driving



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



WARNING:

- 1. 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.**
- 2. Do not drive with the luggage compartment lid open as exhaust fumes can be drawn into the passenger compartment.**

Rear seatback fold down

To provide a longer luggage compartment area, the backs of the rear seat 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.

Luggage compartment lid pull down strap

A strap is provided on the inside of the luggage compartment lid to assist closing the lid.



Luggage tie-down loops

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

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.

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

3-26 Before driving

Ski hatch (where fitted)

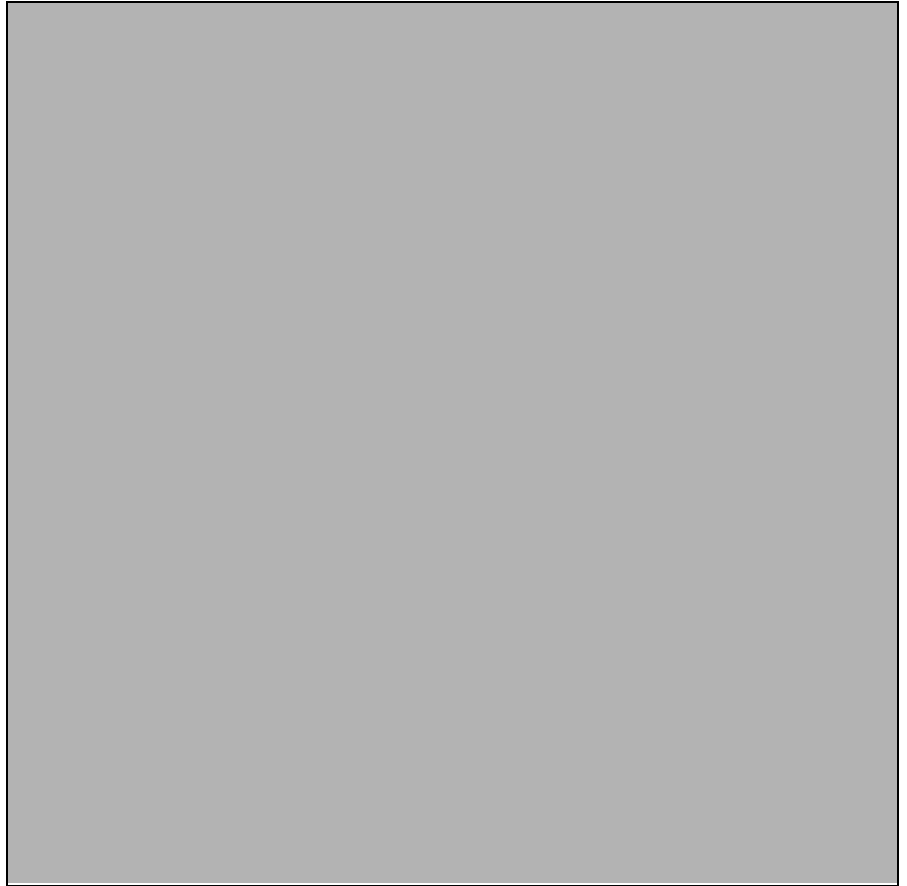
A two-door hatch is fitted to the rear seat which, when open, gives a space for skis or similar objects to be stowed in the vehicle. Both doors have a single catch.

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

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

The other door is accessible from inside the luggage compartment and is opened by pushing the catch (B) 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 (D) to the centre rear seat belt buckle.



Odometer (C)

Records the total distance covered by the vehicle.

The odometer reading is displayed in the message centre unless a message has priority or a trip computer function has been selected.

Fuel level gauge (D)

Indicates the amount of fuel in the tank. A warning message is displayed in the message centre when only enough fuel remains to travel approximately 50 miles (80 kilometres). Simultaneously, the amber general warning light to the left of the message centre will light up.

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

Instruments

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

Speedometer (A)

Speed indication is miles per hour and kilometres per hour.

Tachometer (B)

The tachometer indicates engine speed in revolutions per minute and is calibrated in increments of 500 extending to 8000 rev/min.

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



4-2 On the road

Engine Temperature (E)

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 trailer or caravan.

Should the pointer move into the red segment (H), stop the vehicle as soon as it is safely possible, turn off the engine and open the bonnet to allow the engine to cool.



WARNING:

The radiator cooling fan may continue to run after the ignition has been switched off but will automatically switch off when the engine has cooled sufficiently.

Warning lights

Up to fifteen warning lights are arranged within the instrument clusters; each side of the Message Centre, in between the major gauges and one above each minor gauge.

There are two warning lights, one red, the other amber, located directly to the right and left of the Message Centre for primary and secondary status of the warnings displayed by the Message Centre.

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

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

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

A lamp check is initiated when the ignition is switched ON and lasts for three to 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 lamps are included in the lamp check, for example main beam headlamps or direction indicators.



Seat belt

Lights up for sixty seconds when the ignition is ON and the driver's seat belt is not fastened. A chime sounds for six seconds. Ensure seat belts are fastened before driving.

If the warning light stays ON with the seat belt fastened, report the fault to a Jaguar Dealer. It is safe to drive the vehicle with the light ON, provided that the seat belt is properly fastened.



Airbag

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 immediately.

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



Low oil pressure

This lights up with the ignition switched ON and should be extinguished when the engine is running.

If the warning light stays ON when the engine is running, loss of oil pressure is indicated. STOP the engine immediately and investigate the cause.

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

First check the engine oil level (see page 6-7).

4-4 On the road



High engine temperature



WARNING:

- 1. 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.**
- 2. It is unsafe to run the engine in an overheated condition.**

The first indication of high engine temperature will be the needle entering the RED zone of the coolant gauge and the illumination of the engine over temperature tell-tale light. This will be accompanied by “HIGH ENGINE TEMPERATURE” and a RED priority light appearing on the message centre.

If driving, pull to the side of the road and stop the engine when it is safe to do so. Allow the engine to cool.

The following applies only to vehicles with a V6 engine;

If the vehicle is not stopped after the initial high engine temperature warning and the temperature increases there will be a further message “REDUCED ENGINE POWER”. The engine will not be running smoothly at this stage so make a determined effort to stop the vehicle when it is safe to do so and stop the engine.

If the engine is not stopped and the temperature keeps increasing there will be further messages “PULL OFF ROAD SAFELY” alternating with “TURN OFF IGNITION”. If the engine is not stopped at this time then engine shutdown is imminent.

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’.



Malfunction indicator lamp

This lights up if the engine management system detects an engine or transmission fault.

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

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



Brake

Lights up when the ignition is ON and the park brake (handbrake) is applied 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 park brake (handbrake) NOT applied and a 'LOW BRAKE FLUID' message with a RED priority light is displayed on the message centre, low brake fluid is indicated. In this case, loss of braking assistance in one, or both, brake circuits may be imminent.

If the light is ON with the park brake (handbrake) NOT applied and no message is displayed then there is a fault with the electronic brake distribution system.



WARNING:

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



Charge indicator

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 either high or low battery voltage or that the generator is faulty.

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.



Anti-lock braking system (ABS)

If a fault has been detected in the anti-lock brake system (ABS) this light will light up. The brake system will continue to function normally, but without ABS braking.

Should the tell-tale light up 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 tell-tale lights up again, the vehicle should be driven to a Jaguar Dealer at the earliest opportunity.

4-6 On the road



Direction indicators

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 and the failed bulb will be identified on the message centre.

Hazard warning lamps

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



Main beam

Lights up when the main beam headlamps are switched ON or flashed ON.



Front fog lamps

Lights up when the front fog lamps are switched ON.



Rear fog lamps

Lights up when the rear fog lamps are switched ON.



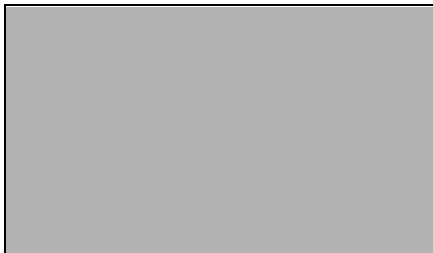
Traction/dynamic stability control

The light will flash at the rate of twice a second when traction control or dynamic stability control is operating. The light is ON continuously when a fault is detected in the system or the system is turned OFF.

Audible warnings

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

| Hazard or Condition | Remedy/chime or tone |
|--|---|
| External lamps remain ON when the driver's door is opened. | Switch the lights OFF or close the driver's door. Note: The tone will not sound if the switch is in Autolamp position. |
| Hazard warning indicators ON. | A ticking will sound until the hazard indicators are switched OFF. |
| Left or right turn 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. | Multiple tones. |
| Engine over temperature, V6 engine vehicles only. | Tones increase to three and then five tones as the engine temperature rises. Stop engine when safe to do so. |
| Seat belt reminder. | Fasten the driver's seat belt or turn the ignition key to '0'. |
| Key in ignition switch reminder | Remove the key from the ignition switch or close the driver's door. |



Message centre

Driver information, messages and data are displayed on the message centre display panel situated within the instrument cluster.

Various languages can be selected for message display.

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

The message centre displays:

- the total distance covered by the vehicle.
- trip computer information.
- warning messages if system faults are detected.
- status messages to indicate changes in state of certain vehicle functions.
- audio system information when steering wheel switches are used.

Messages

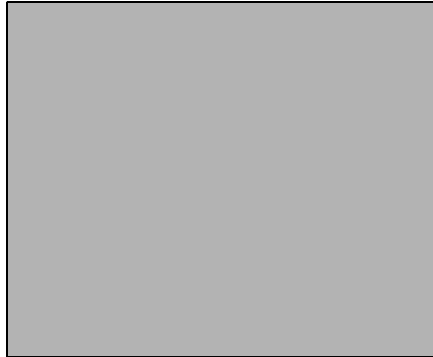


WARNING:
If a red warning light is displayed, stop the vehicle as soon as possible but only when it is safe to do so.

Most messages, when displayed, have an associated warning light, red or amber, at the side of the display 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.

Note: Messages take priority over the odometer reading or 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.

All information displayed will be brightly lit if the exterior light switch is OFF.

If the exterior light switch is ON the display brightness can be varied using the dimmer switch.

Note: Warning lights and warning messages are always brightly lit and are not affected by the dimmer switch.

Trip computer

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

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.

All trip data displayed, apart from 'RANGE' and 'INST FUEL' will be prefixed by the letter A or B depending on which trip memory was last selected.

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

Trip computer functions are:

- odometer
- trip distance
- range
- average fuel consumption
- current (INST) fuel usage
- average speed

Odometer

The odometer shows the total vehicle distance travelled.

When the ignition is switched ON (position 'II') the message centre displays the odometer reading.

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

Trip distance

Distance travelled since the last memory reset. The maximum trip reading is 9999.9 miles (16090 kilometres). The computer will automatically reset to zero if this distance is exceeded.

The total distance covered and trip distance are displayed concurrently.

4-10 On the road

Trip computer functions (continued)

Range

Distance, miles or kilometres, that the vehicle should travel on the remaining fuel, assuming average speed and fuel consumption stay constant.

Average fuel

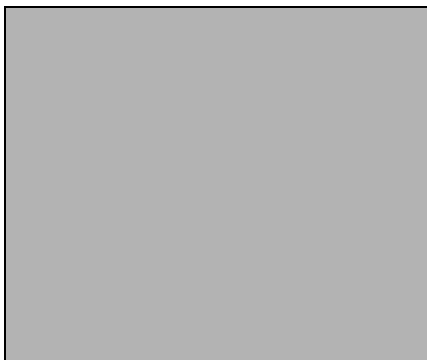
The average fuel consumption, litres per 100 kilometres or miles per imperial gallon since the last memory reset.

Current (INST) fuel usage

Instantaneous or 'at the moment' fuel consumption, which is continuously updated.

Average speed

The average speed since the last memory reset.



Trip computer switchpack

MLS/KM

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

Language selection

To obtain the language selection feature, press and hold the 'mls/km' switch on the trip computer switchpack whilst turning the ignition key to position 'II'. The first language displayed is the one currently selected.

To cycle through the language options, press the 'mls/km' switch repeatedly. When the language required is displayed press the 'A/B' switch. The new language will be selected after a delay of three seconds.

Press CLEAR to display the odometer reading.

Note: RESET/CLEAR is a two position rocker switch.

Trip computer switchpack (continued)

RESET

Sets the selected trip to zero.

CLEAR

CLEAR can be used to cycle through:
TRIP – ODOMETER – MESSAGES.

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

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

Clearing messages

Messages can be hidden by pressing CLEAR on the trip computer switchpack. One press will hide one message. Once all messages have been hidden, the display will show trip data, a further press will display the odometer reading.

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

If a fault occurs when in trip computer or odometer mode, 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 10 seconds, then the message will reappear.

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

A/B

Selects either A or B trip memory. Select the required data using the TRIP/CYCLE switch and then pressing A/B will show the A or B information for that data.

TRIP/CYCLE

Successive presses of the TRIP/CYCLE switch will display each of the trip data items and the odometer reading, in turn.

4-12 On the road

Setting the trip computer

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/CYCLE button 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 3 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.

Note: 'RANGE' and 'INST FUEL' data is independent from the trip computer and cannot be reset. The data is the same for both trip memories and is not prefixed by A or B on the display.

Messages

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

| Message | Warning Light | Priority Indicator | Meaning |
|--|----------------------------|--------------------|---|
| LOW BRAKE FLUID LEVEL | Brake | Red | Displayed when the brake fluid level is low. Complete loss of braking may occur. |
| LOW COOLANT LEVEL (if fitted) | None | Red | Displayed when the coolant level in the reservoir is too low. Check temperature gauge often. The coolant level should be replenished at the earliest opportunity and any leaks made good. Refer to page 6-12. |
| HIGH ENGINE TEMPERATURE | Engine Overtemp | Red | Displayed when engine temperature becomes excessive. Pull off the road when safe to do so and allow the engine to cool. See also page 4-4. |
| REDUCED ENGINE POWER | Engine Overtemp | Red | (V6 engine vehicles only) Displayed as the engine temperature is increasing to upper limits. Engine performance will be limited, to protect the engine. |
| PULL OFF ROAD SAFELY/TURN OFF IGNITION | Engine Overtemp (flashing) | Red | (V6 engine vehicles only) These alternating messages are displayed when engine shutdown is imminent. The engine cannot be restarted until normal temperature is reached. |
| RESTRICTED PERFORMANCE | None | Red | This will be displayed when the vehicle has possible loss of power or driveability. Report the fault to a Jaguar Dealer. |

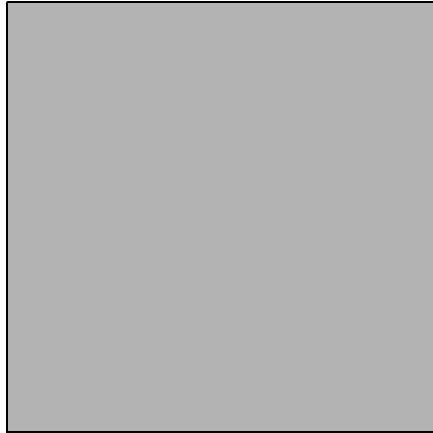
4-14 On the road

| Message | Warning Light | Priority Indicator | Meaning |
|-----------------------------------|------------------|--------------------|---|
| DRIVER'S or PASSENGER'S DOOR AJAR | None | Red | Check that all doors are closed before driving. |
| TRUNK AJAR | None | Red | Check that the trunk lid is closed before driving. |
| FAILSAFE ENGINE MODE | None | Amber or Red | Displayed when the engine has defaulted to 'limp-home' mode. Report the fault to a Jaguar Dealer at the earliest opportunity. |
| TRANSMISSION OVERHEATING | None | Amber | Displayed when the TRANSMISSION 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. |
| LOW FUEL LEVEL | None | Amber | Less than 50 miles (80 kilometres) of fuel remaining. Fill the fuel tank 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 at the earliest opportunity. |
| TRANSMISSION FAULT | None | Amber | It is likely that the driver will experience a degradation of transmission operation. |
| TRACTION CONTROL FAULT | Traction control | Amber | Displayed when a fault occurs in the traction control system. |

| Message | Warning Light | Priority Indicator | Meaning |
|--|------------------|--------------------|--|
| DSC SYSTEM FAULT | Traction control | Amber | Displayed when a fault occurs in the stability control system. |
| Note: In most countries it is illegal to use a vehicle with a defective exterior lamp bulb. Bulb replacement information commences on page 5-12. | | | |
| LEFT or RIGHT or BOTH BRAKE LAMPS FAILED | None | Amber | Check for failed brake lamp bulb(s) and replace. |
| LEFT or RIGHT FRONT TURN LAMPS FAILED | None | Amber | Check for failed front turn lamp bulb(s) and replace. |
| LEFT or RIGHT REAR TURN LAMPS FAILED | None | Amber | Check for failed rear turn lamp bulb(s) and replace. |
| LEFT or RIGHT SIDE REPEATERS FAILED | None | Amber | Check for failed side repeater lamp bulb(s) and replace. |
| BOTH or LEFT or RIGHT TAIL LAMPS FAILED | None | Amber | Check for failed tail lamp bulb(s) and replace. |

4-16 On the road

| Message | Warning Light | Priority Indicator | Meaning |
|--|---------------------|--------------------|---|
| TRACTION CONTROL or DSC SYSTEM ON or OFF | Traction control | None | Message confirming that Traction or Stability control is switched ON or OFF. The warning light will FLASH when the traction or stability control is switched ON and operating. When the system is switched OFF the warning light in the instrument cluster will light up until the system is switched back ON. |
| AUTOLAMP DELAY | 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 2 RECALLED or MEMORY 1 OR 2 SETTINGS SAVED | None | None | When a memory is set or recalled a corresponding message will be displayed. |
| LOW WASHER FLUID LEVEL | None | None | Replenish the washer fluid at the earliest opportunity. |
| CRUISE CONTROL ON or OFF | None | None | Displayed when cruise control is switched ON or OFF. |
| | Low Oil Pressure | None | Stop the engine immediately and investigate the cause. Do not restart the engine until the fault has been rectified. |
| | Charge Indicator ON | None | If the light comes ON when the engine is running it indicates either a battery voltage fault or that the generator is faulty. Stop the engine and investigate the cause. |



Cruise (speed) control (when fitted)

The cruise (speed) control system can be used by the driver to maintain a selected vehicle speed above 25 mph (40 km/h) without the driver having to use the accelerator.

Illuminated switches on the steering wheel allow the driver manual control of the system. Brake and clutch operation also influences the cruise control system.

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

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

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

(D) – ON/OFF readies cruise control for speed set or turns cruise control OFF.

Setting vehicle speed



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

To engage cruise control, press the ON/OFF switch and the message CRUISE CONTROL ON will be shown in the message centre.

When you are travelling at the speed you require, which must be above 25 mph (40 km/h), 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 23 mph (37 km/h). If the vehicle has a manual gearbox, pressing the clutch pedal will also disengage the cruise control.

4-18 On the road

Changing the set speed

There are three ways to change the set speed:

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

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 mph (40 km/h).

RESUME will not operate if the ON/OFF switch has been pressed to switch the system off or if the ignition has been turned off.

Caution:

1. **RESUME should only be used if the driver is aware of the set speed and intends to return to it.**
2. **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 ON/OFF switch is set to OFF. A message CRUISE CONTROL OFF will be shown in the message centre.
- 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.
- The clutch pedal is pressed.
- Speed falls below 23 mph (37 km/h).
- Neutral, Park or Reverse gear positions are selected.
- Traction control or DSC is operating.
- The vehicle speed drops by 10 mph (16 km/h) below the set speed.
- When the vehicle reaches a maximum speed of:

| | |
|-----------|---------------------|
| V8 | 125 mph (200 km/h) |
| V6 Manual | 125 mph (200 km/h) |
| V6 Auto | 120 mph (192 km/h). |

Climate control

The climate control system provides filtered air to the cabin from a fully automatic, dual-zone, temperature controlled system.

When 'AUTO' is selected, the driver's and front passenger's air temperature, fan speed and air distribution are automatically controlled to give optimum comfort under most driving conditions.

Manual controls are provided to allow the driver to override the automatic operation for air conditioning (A/C), fan speed, fresh/recirculated air and air distribution.



Control panel

1. Driver's temperature control
2. Fan speed
3. Celsius/Fahrenheit selector
4. External air temperature
5. Display panel
6. Defrost
7. Air conditioning
8. Recirculation/fresh air
9. Passenger's temperature control
10. Heated rear screen
11. Heated wiper park or (where fitted) heated front screen
12. Manual air distribution
13. Climate control OFF
14. Automatic operation

4-20 On the road

General information

Ensure that the grille at the base of the windscreen is kept clear of leaves, snow or other obstructions.

A solar sensor is mounted on top of the fascia, in the centre of the defrost grille, and this should not be covered.

Condensate which forms at the evaporator in the air conditioning unit is discharged onto the road underneath the vehicle. After stopping, puddles of water may form underneath the vehicle.

Note:

1. The air conditioning system should be run briefly at least once each week with a cold setting to prevent the seals from drying out with subsequent refrigerant leaks.
2. When the engine and vehicle interior are cold the fan speed may be low until the engine has warmed up, this avoids excessively cold air being blown into the cabin.

System overview

Driver and front passenger have independent control of the temperature of the air for their individual comfort.

The system regulates the volume of airflow from the vents of the instrument panel, rear seat panel, front and rear floor ducts, front screen defroster and side windows. It will automatically select between fresh and recirculated air to assist rapid cooling of the interior.

Operation of the heated wiper park/windscreen heater (where fitted), and rear window heater are controlled from the climate control panel. Door mirror heaters are automatically switched on when the heated rear window is switched on.

Button functions



Automatic operation

Press 'AUTO' to switch the climate control system ON, with full automatic control.

Pressing 'AUTO' at any time cancels all manual selections.

Pressing and holding the 'AUTO' button for 2 seconds sets the passenger's temperature to that of the driver's. This is confirmed by two beeps. Any change of the driver's temperature changes both driver's and passenger's. Any change of the passenger's temperature will return the system to dual zone control.



Temperature selection

Press driver or passenger temperature control switches to raise or lower the individual temperature. The selected driver and passenger temperatures are shown in the display panel.

If a very large temperature differential is requested the driver's temperature will take priority and the passenger will be made as comfortable as possible.

If the driver's temperature is selected to provide maximum heating or maximum cooling, then the display will change to 'HI' or 'LO'.

On deselection of 'HI' or 'LO' the passenger's temperature setting will be equal to the driver's until the passenger selects a new temperature.



Fan speed

Note: In 'AUTO' the fan will only operate at low speed, when heating is required, until the engine is warm.

Press the fan speed manual control switch to increase or decrease the air flow. Fan speed is shown as a series of bars in the centre of the climate control panel display.

Press 'AUTO' to resume automatic control.



External temperature

Press the button to display the outside air temperature. Press again to return to the climate control display.



Celsius/Fahrenheit selection

Press the selection button to display the temperature in Fahrenheit. Press the button again to display Celsius.

4-22 On the road



Defrost

Press the defrost button to direct air to the front screen and front door windows at maximum fan speed.

Fan speed can be manually reduced as required. Press 'AUTO' to return to normal control.

Switching on the defrost will also switch on the wiper park heater/front screen heater (where fitted) and the rear screen heater. It also switches on the air conditioning and cancels recirculation.



WARNING:

Directing cold air onto the screen in warm humid conditions can produce external condensation.



Manual air recirculation

Press the recirculation button to close the outside air intake and prevent unpleasant odours from being drawn into the vehicle.

Pressing the button selects air recirculation in the vehicle for an automatically timed period. This time varies, depending on the outside air temperature, from 1 to 12 minutes.

Pressing and holding the button for 2 seconds keeps the air recirculating. This cannot occur if 'DEFROST' or manual air distribution 'Demist' has been selected. Press the button again to open the air intake and allow fresh air into the vehicle.



WARNING:

Prolonged operation with recirculation selected in cold, damp conditions could result in interior condensation.



Air conditioning

Press the A/C button to switch off the refrigeration system. Press to switch on again.

The refrigeration system is automatically engaged when 'AUTO' is selected.

Note: All the year use of air conditioning is recommended for optimum comfort and to reduce interior misting.



Heated wiper park or (where fitted) heated front screen

To operate the heated wiper park or front screen heater the engine must be running. Press to switch on the heated wiper park to defrost the wiper park area, or where fitted, press to switch on the heated front screen for rapid defrost/demist.

Heated wiper park automatically operates in cold weather, and may stay on continuously. It is automatically switched on when 'DEFROST' is selected. If manually selected, the heated wiper park will stay on until deselected or until the engine is switched off.

Heated front screen is automatically switched on when 'DEFROST' is selected. It will automatically switch off after 4 minutes.



Heated rear screen

To operate the rear screen heater the engine must be running. Press to switch on the heated rear screen and heated door mirrors for rapid defrost/demist. The heaters will be automatically switched off after 10 minutes.

In cold conditions, the heated rear screen operates automatically. Selecting 'DEFROST' will also turn the heated rear screen ON.

Note: The top three lines of the rear screen pattern are a concealed antenna and do not defrost the rear screen.

Air distribution

The illustration on page 4-24 shows the location of the air vents within the vehicle.

Air distribution is automatically controlled when 'AUTO' is selected. Manual control can be achieved using the air distribution buttons.

Airflow from the fascia vents can be regulated or switched off using the thumbwheel controls on those vents. The airflow through these vents may be directed by adjusting the vanes.

Manual air distribution

The following options are available:



Face only



Bi-level (face and feet)



Feet only



Demist (screen and feet)

Selection of 'Demist' also switches on the air conditioning and cancels recirculation.

Press 'AUTO' to return to automatic operation.

4-24 On the road

Air distribution





Off

Press the OFF button to switch off the climate control system.

Heat at rest feature (V8 engine vehicles only)

Interior heating may be continued after the engine has been switched off by turning the ignition to position 'II'. The climate control system will continue to provide heat to the vehicle interior until the engine cools down.

Caution: Excessive use will cause a low battery voltage which may prevent the vehicle from being started.

Cold weather operating tips



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.

Hot weather operating tips

If the vehicle has been parked in the sun the interior will cool faster if you follow these guidelines:

- Before sitting in the vehicle, leave the door(s) open for a short time to allow the hot air to escape.
- Drive for a short time with the windows open to force the hot air out of the vehicle.



Door window operation

Four switches on the driver's door switch pack control the driver and passenger door windows. The passengers are provided with a switch to control the passenger door window only.

These switches normally operate when the ignition switch is in position 'I' or 'II'. If the key is removed from the ignition switch and all doors remain closed, then the windows can be operated for up to 10 minutes or until a front door is opened.

The button (A) immobilises the rear door window switches preventing rear seat passengers from operating the windows.



WARNING:

1. When raising windows ensure all occupants are clear.
2. When leaving the vehicle take the ignition keys to prevent misuse of the window switches by remaining occupants, especially children.
3. Obstruction detection is not available.

Operation

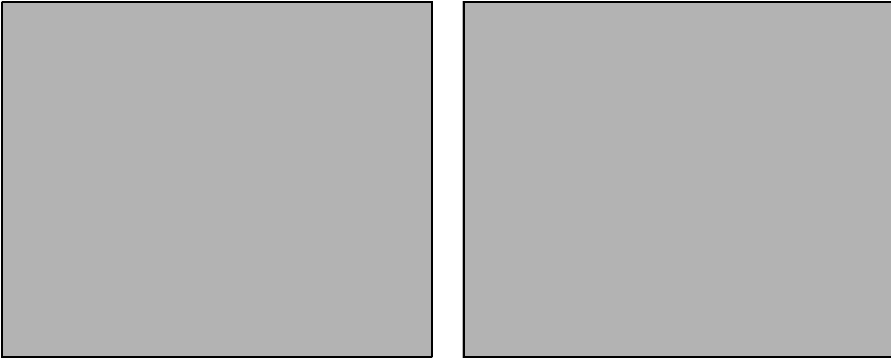
To lower a window, press and hold the rear part of the switch. Release the switch to stop movement.

To close a window, press and hold the forward part of the switch. Release the switch to stop movement.

Note: If the switches are held for longer than 6 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

The switch for the driver's window only has a 'one-touch down' facility enabling the driver to fully open the window in one quick movement. Press the rear of the switch fully downwards and release to open the window. Window travel can be stopped by pressing the switch again.



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

Additionally, the message centre will show a bulb failed message when the ignition is ON. The message will be cleared when the bulb has been replaced and the direction indicator is next used.

Hazard warning

The switch is in the fascia trip computer switch pack and operates with the ignition ON or OFF.

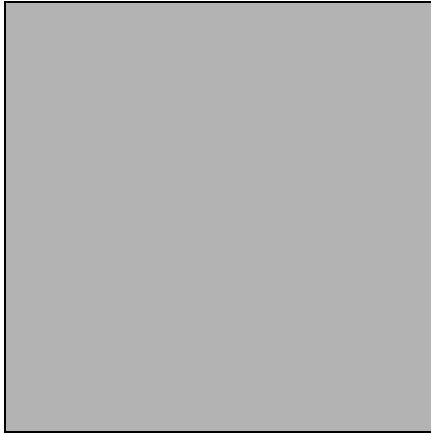
To operate: Press the switch; the direction indicators, the instrument cluster green indicators and audible warning will operate in unison. The switch symbol will light up.

To cancel: Press the switch again.

Direction indicators

The direction indicators operate when the ignition is in position 'II'. To indicate for a right or left turn, move the column left stalk switch up or down respectively. The switch 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.



Exterior lighting switch

- A. timer
- B. auto
- C. off
- D. side (parking) lights
- E. headlights
- F. rear fog lights
- G. front fog lights (where fitted)

Exterior lighting

The exterior lights are controlled by a rotary light switch mounted on the fascia and by the column switch.

The rotary switch has six positions. These are:

Auto (B) – A light sensor control, mounted on top of the fascia, monitors exterior light levels and automatically switches the sidelights and dipped headlights ON or OFF.

Turn the switch anti-clockwise from position C. The ignition switch must be in position 'II' and the automatic headlights must be on for automatic light operation.

When light fades to the non-adjustable, pre-set level, the sidelights and headlights will switch ON automatically.

As light increases to the pre-set level, the sidelights and headlights switch OFF automatically.

Do not cover the sensor and keep the windscreen clean. Obstructing the light in this area may lead to unwanted operation of the sidelights and headlights when the switch is set to 'AUTO'.

Autolamps delayed exit (A) – This feature leaves the headlights turned ON after the ignition has been switched off, allowing the driver and passengers increased visibility on leaving the vehicle. The switch has seven positions and moving from OFF (position C) varies the time from 3 seconds up to three minutes that the lights remain on. After adjustment, the newly set delay time will be displayed on the message centre.

Exterior lighting (continued)

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

Sidelights (D) – 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 (E) – Switches on dipped headlights in addition to the lights switched on in position (D).

The left-hand column switch has two pull positions. Pulling and releasing the switch to the first position causes the main beam to flash. The main beam can be flashed with the ignition ON or OFF 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 (E), and then pull the column light switch, past the first position, fully towards 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 again.

Note: If dipped beam is switched OFF, pulling the switch to the second, main beam on position will flash the main beam headlights. They will remain on for as long as the switch is pulled.

Rear fog lights (F) – Turn the switch to headlights on, pull the switch and then turn to position (F) to turn on the rear fog lights. The amber rear fog lamp warning light in the instrument cluster will light up. This will also turn on the front fog lights.

Front fog lights (G) – Pull the switch in positions (A), (B), (D), or (E) to switch on the front fog lights. The green front fog lamp warning light in the instrument cluster will light up. Push to turn off.

If the rotary light switch is turned OFF (C) the switch will be retracted to its normal position and the fog lights will be turned off.

Daylight running lights (where fitted)

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

With the rotary light switch in the OFF position (C), dipped headlights, sidelights, tail and number plate lights will switch on automatically with the following conditions:

- the ignition is turned to position 'II',
- the exterior light switch must be in position (C) or (D),
- the vehicle gear selector out of park
- and the handbrake not applied (released).

Daylight running lights will also be on when the exterior lighting switch is in the AUTO or Timer positions with the ignition ON.

4-30 On the road

Battery saver

If the dipped or main beam headlights are switched on and the ignition is turned to '0' or the key is removed, the lights will automatically turn OFF after 10 minutes. The sidelights will remain ON.

Bulb failure monitoring

The tail and brake light bulbs are monitored for failure and a corresponding message is shown on the message centre, for example:

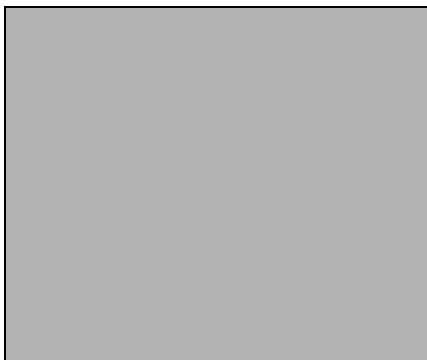
Message:

LEFT TAIL LAMP FAILED

Warning Light: **Amber**

There are two tail light bulbs in each tail light. The message that a tail light has failed indicates that **both** lights in that cluster have failed.

The message will be shown, even after a bulb is replaced, until the next time the bulb is switched on.



Dimmer switch

The instruments, door switch packs, in-car entertainment panel and the climate control panel will be lit when the ignition switch is in position 'II'. Rotate the knob to adjust the illumination to the required level.



Interior lighting

Two combined map/reading/courtesy lamps are fitted in the front overhead console.

A map/reading/courtesy lamp is fitted above each rear passenger grab handle.

Press the master interior light switch in the overhead console, the centre switch, to turn all interior lamps from automatic to on. When the switch is in the ON position, if any doors are open, none of the individual interior lamps can be turned OFF.

In the automatic position, when the interior lights have faded off, each light can be switched on or off by pressing the associated individual switch.

Also in this position, if a door is open when the vehicle is driven, the interior lighting will fade off and then fade on again when the vehicle slows down. The message centre will alert the driver that a door is open.

When the ignition switch is at position '0', and the lights are on, they will remain on for up to 40 minutes.

Illuminated entry/exit

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

If the courtesy lights are on they will fade off when the vehicle is locked with a key or a key-ring transmitter.

Door guard/puddle lamps

Door guard lamps are fitted to each front door to give warning of an open door to passing vehicles. The puddle lamps illuminate the 'step out' area at night.

Luggage compartment, glovebox and vanity mirrors

The luggage compartment, glovebox and vanity mirrors are illuminated when in use. These lights will work for up to 40 minutes after the ignition has been switched off.



Sunroof



WARNING:

- 1. Before opening or closing the sunroof check that all occupants are clear.**
- 2. When leaving the vehicle take the ignition key to prevent misuse of the sunroof switch by remaining occupants, especially children.**
- 3. Obstruction detection is not available.**

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

The switch has two open positions.

To fully open the sunroof by manual operation, pull the switch gently rearwards 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 pull the switch fully rearwards to the second position and then release. To stop the sunroof opening, press the switch upwards, forwards or rearwards.

To fully close the sunroof, push the switch forwards and hold until the sunroof is closed. It can be stopped at any position by releasing the switch.

To tilt open, push the switch upwards and hold until the required position is reached, or until the tilt is fully open, and then release the switch.

To close the tilted sunroof, push and hold the switch forwards until the sunroof is closed.

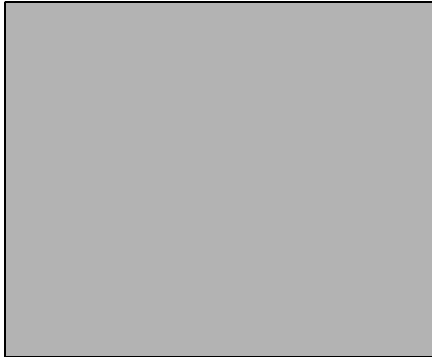
To tilt open the sunroof from the fully open position, push the switch upwards and hold until the tilt is fully open.

To fully open the sunroof from the tilt position, pull the switch gently rearwards and hold until the sunroof is fully open.

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 it cannot be manually closed from this position.

Note: If the sunroof is moved from the fully open position, the sunshade pull cup cannot be accessed until the sunroof is fully closed.



Reverse park control

This parking aid, when reverse gear is selected and ignition on, automatically provides an audible proximity warning when reversing the vehicle. If an object is detected, a beep tone will be heard, which increases in rate as the vehicle approaches the object.

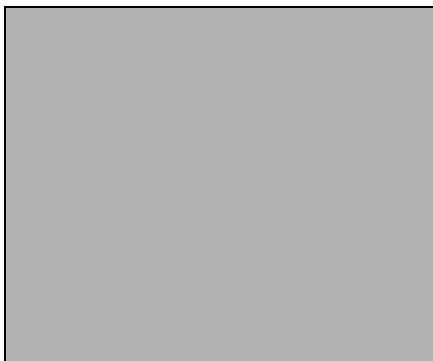
At approximately 8 inches (200 mm) the beep will become continuous for three seconds and is then automatically turned off.

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.

Reverse park control can be switched off at any time by pressing the switch in the overhead console. A red indicator light in the switch lights up when the system is switched off. The system will be switched on automatically every time the vehicle is started.

Note:

1. For reliable operation, the sensors should be kept free from ice and grime.
2. When using a high pressure spray, the sensors should only be sprayed briefly and not from a distance of less than 8 inches (200 mm).



Wipers and washers

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

The functions are as follows:

Position (A):

Flick wipe.

Position (B):

The windscreen wipers are Off and parked.

First position (C):

Intermittent wipe.

Second position (D):

Slow wiper operation.

Third position (E):

High speed wiper operation.

Intermittent wipe

When intermittent wipe is selected the delay between wipes can be varied. Turn the collar (F) to vary the delay from 3 seconds to 18 seconds. As the vehicle speed increases the delay time will be automatically decreased.

Flick wipe

Pull the column switch downwards 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 (F) to AUTO) and intermittent wipe is selected, the wipers will automatically operate to clear the windscreen 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'.

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



Windscreen wash/wipe

Push the end of the switch towards the steering column to obtain the wash/wipe programme.

A short press will operate the washers briefly and the wipers will complete three wipes.

A long press will operate the washers and wipers for up to 10 seconds. When the switch is released, the wipers will complete two further wipes.

Headlight powerwash (where fitted)

Note: The headlight powerwash units are mounted on the front bumper.

The headlight powerwash feature will operate if the ignition is in position 'II' and headlights are switched ON (not daylight running). It will not operate if the washer fluid level is low.

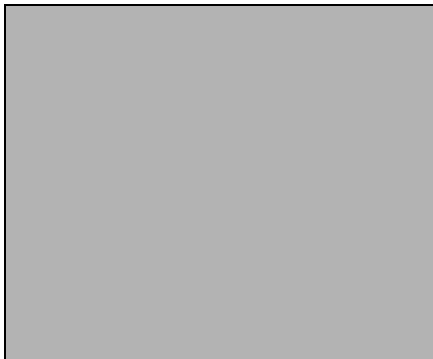
When the windscreen wash/wipe button is pressed, the headlight powerwash directs two short bursts, approximately one second apart, at the headlights. If the wash/wipe button is held, the power wash cycle will continue for up to 20 seconds.

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: When the **LOW WASHER FLUID LEVEL** message is displayed:

- 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.
- to conserve wash fluid, headlight powerwash will not be available until the reservoir has been replenished and the message is no longer displayed.

4-36 On the road



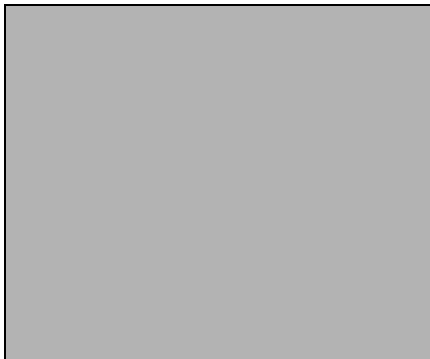
Park Brake (Handbrake)

The park brake (handbrake) lever, which applies the parking brakes, is mounted on the right-hand side, between the centre console and the seat.

Pull the park brake (handbrake) upwards to engage the parking brakes. The park brake warning/brake fluid low warning light on the instrument cluster will light up, if the ignition is on.

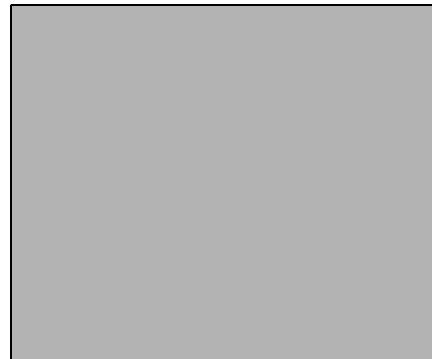
To release the park brake, lift the lever slightly, press the locking button at the end of the lever and lower fully.

If the park brake (handbrake) lever is not fully off, the park brake warning/brake fluid low warning light will stay on.



Horns

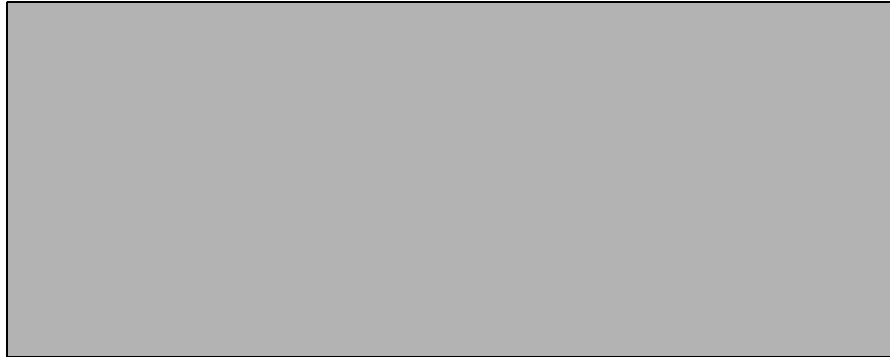
Twin warning horns are operated by pressing the centre pad on the steering wheel.



Interior features

Rear sun blind (where fitted)

The rear sunblind is fitted to the rear parcel shelf and is operated by a switch in the overhead console. Push the switch to raise the blind. A second push will lower the blind.



Centre console

The centre console carries the ashtray, cigar lighter, cupholder and the armrest. Lift the front of the hinged armrest to gain access to the storage compartment.

Cupholders

Front cupholder

To use the cupholder, push the lid to open. After use, press the lid to close.



WARNING:

- 1. Do not place hot drinks in the cupholders whilst driving – there is a risk of scalding.**
- 2. Always ensure that all cupholders are stowed when not in use.**
- 3. Use soft cups only.**

4-38 On the road



Sun visors and vanity mirrors

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. Lamp brightness can be adjusted using the slider switch adjacent to the mirror.



Cigar lighter and ashtray

Push the lid to gain access to the cigar lighter and ashtray. Push the lid to close it.

To operate the cigar lighter the ignition must be on, press the lighter down 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.

To empty the ashtray, lift it out vertically and remove. After emptying, push the ashtray into the opening until it snaps back into place.



Coin tray

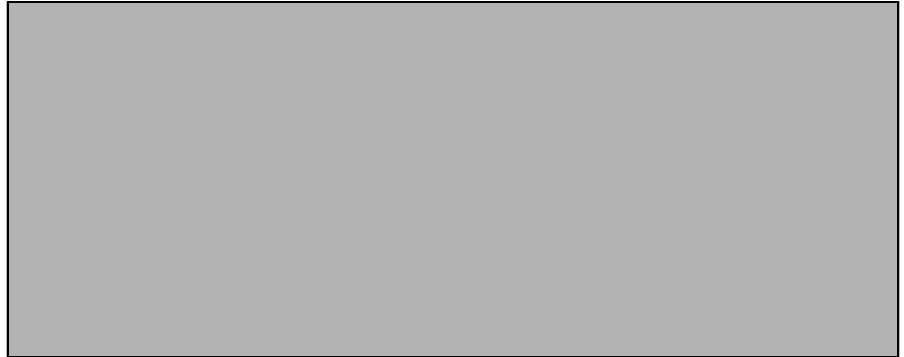
A coin tray is located beneath the audio system control panel. Gently push the drawer inwards and then release to open it. Push the open drawer into the stowage bay to close it.

Note: If an in-car phone digit dialler keypad is fitted, it takes the place of the coin tray.



Rear centre armrest

Pull the loop on the rear centre armrest to lower. If not required, raise the armrest to its upright position and push firmly into place. Ensure that the armrest is raised when lowering the seatback to increase the luggage compartment area.



Glove compartment

A glove compartment is located below the passenger's airbag. Stowage is provided for the Driver's Literature Pack. If a CD autochanger has been fitted, it is contained within the glove compartment. The lid, when opened, has location for a cup and has a pen holder.

Light-weight luggage hook

A hook for holding light-weight items such as a handbag/purse or a small shopping bag is fitted beside the glovebox release catch. Press the lower part of the hook (A) to lower the hook. Fold the hook back into the lid after use.

Map pockets

Map pockets are provide on the rear of the driver and passenger front seats.

4-40 On the road

Starting/stopping the engine

Before starting

Before starting the engine, new owners/drivers should familiarize themselves with the layout and operation of the controls and instruments.

To start the engine



WARNING:

Before attempting to start the engine, check park brake (handbrake) is ON and gear selector lever (automatic transmission) is in position 'P' or 'N' or (manual transmission) in Neutral.

Insert the key into the ignition switch and turn clockwise to position 'II' to switch on the ignition.

To start the engine, turn the key to position 'III'. When the engine starts, release the key which will automatically return to position 'II'.

Note: Do not depress the accelerator pedal whilst operating the starter motor.

The red battery 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 on the fascia is flashing, it is possible that the engine will not start. In any event, please contact a Jaguar Dealer to investigate the cause of the light flashing.

Do not use the starter continuously for longer than six seconds. Continued use of the starter will discharge the battery and may also damage the starter mechanism. Wait until the engine stops before re-using the starter.

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.

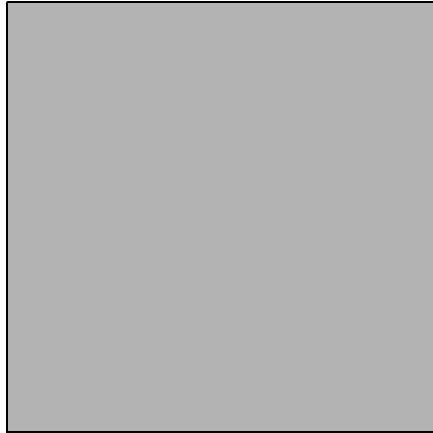
Note: The engine cannot start whilst the pedal is fully depressed, it must be released to enable the engine to start.

It is possible that the fuel system inertia switch may have tripped, see page 5-1 for resetting procedure. If the engine still fails to start, switch the ignition OFF and contact a Jaguar Dealer.

To stop the engine

Turn the key from position 'II' to the 'lock' position 'O'. This turns off the ignition and stops the engine.

Leaving the key in position 'I' or 'II' will discharge the battery.



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 4th, 3rd, or 2nd gear.

Gear-shift interlock

A brake pedal/gear-shift interlock system is incorporated in the gear selector mechanism.

To move the gear selector from position 'P':

1. Turn the ignition key to position 'II' or start the engine.
2. Press the brake pedal.

Gear selector positions



WARNING:

The park brake (handbrake) or brake pedal must be applied before selecting forward or reverse drive from a stationary position.

P = Park – Only use when parking. Do not select if the vehicle is moving.

R = Reverse – Do not select if the vehicle is moving forward.

The reversing lights come ON automatically with **R** selected and the ignition switch in position 'II'.

N = Neutral – Disconnects the driveline from the engine. Use with park brake (handbrake) when stopping temporarily.

D = Drive – All five gears are changed automatically as required by the throttle position and road speed.

2, 3, 4 = Second, third, fourth – If selected, the transmission operates automatically but will not engage gears higher than the one selected.

Note:

1. After selecting forward or reverse drive ranges from Neutral or Park, wait briefly for the transmission to engage before accelerating.
2. When in Neutral or Park the engine can only be accelerated to 3000 rev/min.

4-42 On the road

Drive to fourth

When driving in gear position 'D' with fifth gear engaged, the gear selector can be shifted sideways across the gate to '4'. Provided that the vehicle's speed is not too great, the transmission will shift down to fourth.

Fifth will be inhibited until the gear selector is moved back to 'D'.

Starting and stopping

The engine cannot be started until the gear selector is in 'N' or 'P'.

When the vehicle is stationary the 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 park brake (handbrake) and select 'N'.

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', '4' or '3' down to '2', downshift to second gear will only take place at road speeds below 40 mph (64 km/h).

Shift inhibit

Reverse is inhibited when the vehicle is moving forward at speeds above 5 mph (8 km/h).

Note: Reverse inhibit will not function in limp home mode.

Kickdown

Kickdown is operated when the pedal is pressed fully down 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 gear shift points are extended to give greater performance. This mode is in effect for as long as the pedal is pressed fully 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 **immediately**.



Sport mode

The switch marked 'S' on the 'J'-gate surround enables the driver to select either normal 'N' or sport 'S' modes.

When sport mode is selected the automatic transmission will operate normally, but the gear shift 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 lights up 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.

DSC/Traction control – When DSC/traction control 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.

Note: 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'.

4-44 On the road

Anti-lock braking system (ABS)



WARNING:

1. It remains the driver's responsibility to drive safely according to prevailing conditions.
2. 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.
3. 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.

4. **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.**

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 tire/road adhesion.

ABS optimises tire/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. Tires 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 tire/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 tire/road adhesion.

Under severe braking on some road surfaces tire noise may be apparent even though the wheels will at no time become locked.

Anti-lock braking system (ABS) (continued)

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.

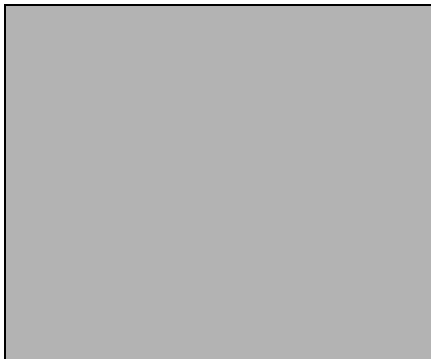
Caution: Should the warning light come on while driving, a system failure is indicated, consult a Jaguar Dealer immediately.

Advice on ABS braking techniques

For optimum ABS performance the instructions on braking techniques during ABS operation should be followed:

1. Do not release brake pressure when the pulsating effect is felt. Maintain a constant pressure until the manoeuvre is completed.
2. 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 20 mph (32 km/h) and brake sharply.
3. 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.
4. 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.
5. 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.

4-46 On the road



Traction control

All vehicles are fitted with traction control. The system 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.

Traction control is always switched ON when the engine is started.

If the system is operating, the warning light in the instrument cluster will flash.

The traction control (and dynamic stability control, when fitted) system can be switched OFF by pressing the switch on the gear selector surround. The warning light in the instrument cluster will remain on and 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 traction control activates.

A system malfunction is indicated by a message. It is safe to drive the vehicle but the system may not activate under wheel spin conditions. Report the fault to a Jaguar Dealer as soon as possible.

Message:

TRACTION CONTROL FAULT

Warning light: **Amber**
and the instrument cluster warning light will be lit.



WARNING:

- 1. The fact that the vehicle is fitted with Traction 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.**
- 2. It is recommended that, if using snow chains, traction control should be switched OFF.**



Dynamic stability control (DSC) (when fitted)

DSC is operational whenever the engine is running, unless it has been switched off.

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.

The dynamic stability control system can be switched OFF by pressing the switch on the gear selector surround. The warning light in the instrument cluster will remain on to show that the system has been switched OFF. If the switch is pressed again the system will switch ON.

A system malfunction is indicated by a message. 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 as soon as possible.

Message:

DSC SYSTEM FAULT

Warning light: **Amber**

and the instrument cluster warning light will be lit.



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.

4-48 On the road

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.

1. Allow the engine to warm up thoroughly before operating at engine speeds over 3500 rev/min.
2. Vary the speed frequently.
3. From 940 miles (1500 kilometres) 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 300 miles (480 kilometres), the following points are recommended.

1. 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.
2. Avoid prolonged use of the brakes, for example, when descending severe gradients.
3. 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.

General driving information



WARNING:
Ensure the park brake (handbrake) 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.

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.

Use of headlamps in daylight

When visibility is poor the headlamps on 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.
- 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 heated wiper park/heated screen will accelerate this process.

Frost precautions

The correct concentration of coolant must be maintained at all times when replenishing 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 against a breakdown 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.

4-50 On the road

First aid kit

A first aid kit is compulsory equipment in certain countries. If you require a first aid kit, your Jaguar Dealer can supply one.

Fire extinguisher

Many countries make it compulsory to carry a fire extinguisher. Your Jaguar Dealer can supply and fit one.

Petroleum spirit in containers

Some countries forbid the carrying of petrol in containers, as do most ferry and hovercraft operators.

Cellular radio telephones in tourist's vehicles abroad

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.

Jaguar warning triangle

A warning triangle to give following traffic advanced notice of a disabled vehicle is compulsory in many countries. A triangle, designed to international standards, is standard equipment in certain markets.

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.

Roof-rack

Only the Jaguar approved roof-rack should be used.

The maximum load, including the weight of the rack, must not exceed the load rating indicated on the roof rack bars and **must** be deducted from the vehicle maximum luggage load (see page 7-3 for weight details).

Loads on the roof-rack may affect vehicle handling, especially in crosswinds or when cornering.

Towing a caravan or trailer

Your Jaguar Dealer, and the main motoring and caravanning organisations can advise you on towing, 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.
- The kerbside weight of the vehicle can be found on page 7-3.
- When towing, the noseweight of the caravan or trailer and the tow-bar assembly must be deducted from the permissible maximum load (see page 7-4).
- When towing at the maximum permissible rear axle load, keep within legal towing speeds but in any case do not exceed 62 mph (100 km/h). Increase tire pressures to 39 lbf/in² (2,5 bar).
- The recommended maximum tow-ball noseweight is 167 lb (75 kg).
- It is essential that only a Jaguar tow-bar and Jaguar electrical tow-bar kit are supplied and fitted by a Jaguar dealer.
- Avoid heavy braking. Since 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 tires are fully efficient and regularly serviced. Similarly check the wheels, tires, brakes and wheel bearings of the caravan or trailer.

Caution:

1. **Using electrical kits not specifically designed for this Jaguar will damage the electrical system of the vehicle.**
2. **When not in use, the removable towball must not be stored in the vehicle nor the luggage compartment.**

4-52 On the road

Fuel and refuelling

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.

Fuel tank filling



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.

Caution:

- 1. Take care to not spill fuel during refuelling. Fuel containing alcohol can cause paint damage, which may not be covered under the warranty.**
- 2. Vehicles with engines fitted with catalytic converters must only be filled with 'Unleaded Fuel'.**

Note:

1. Use only Premium Unleaded gasoline with a minimum Anti-Knock Index (AKI) of 91.
2. Oxygenated gasoline blended with ethanol (max. 10%) methanol (max. 10%) or methyl tertiary butyl ether (MTBE) (max. 15%) may be used.
3. Reformulated Gasoline with a minimum AKI of 91 may also be used.

The use of high quality fuel containing 'intake system deposit control' detergent and other additives will help to keep the vehicle's intake system free of deposits and its fuel system free of corrosion and gumming.

If high quality fuels containing 'intake system deposit control' detergent and other additives are used continuously, there should be no need to add any after market products to the fuel tank.

If problems are experienced with starting, rough idling or hesitation when the engine is cold, it may be caused by gasoline with a low volatility. Try a different grade and/or brand of fuel. If the condition persists, see a Jaguar Dealer or a qualified service technician.

After refuelling, refit the filler cap and close the flap, which automatically locks shut.



The fuel filler flap release switch is on the left-hand side of fascia. The filler flap is on the right-hand side of the vehicle.

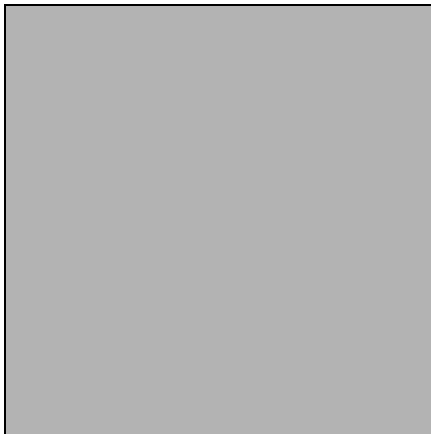
Press the switch to release the flap.

Turn the filler cap anti-clockwise until a snap is heard then pull the cap from the filler neck. The cap is held by a retaining strap which can be passed over the hook on the flap to allow easy access to fill the tank.

A warning label on the inside of the fuel filler flap advises type/grade of fuel.

The filler neck of the fuel tank is a small diameter to suit the unleaded fuel pump nozzle and will prevent the larger diameter leaded fuel nozzle from entering the filler neck.

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. Fill the tank until the filler nozzle automatically shuts off. Filling beyond this point could result in fuel spillage.



Fuel filler flap manual release

If the fuel filler flap fails to operate it can be manually unlocked as follows:

1. Look in the luggage compartment on the right-hand side behind the trim for the fuel flap manual release tag.
2. Pull the tag to unlock the filler flap.

Report the fault to a Jaguar Dealer.

Oxygenated gasoline

Fuels that are blended with compounds containing oxygen, called oxygenates, may be used. Common oxygenates are ethanol or grain alcohol (blended at no more than 10%), methanol or wood alcohol (blended at no more than 5% with necessary co-solvents and additives, and MTBE or methyl tertiary butyl ether (blended at no more than 15%). The type of oxygenate may be found on the fuel pump or by asking the attendant. In certain areas of the country, oxygenates are required to be in all fuels to help improve air quality.

Generally, difficulty should not be experienced while operating the vehicle on fuels containing oxygenates. If problems are experienced switch to a fuel with a different type of oxygenate, or switch to a fuel that does not contain oxygenates, if available.

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 encourage the use of reformulated gasoline, where available.

Catalytic converters

A few precautions on the use of vehicles fitted with catalytic converters are necessary. These are:

1. In order to maintain the efficiency of the emission control system it is essential that **unleaded** fuel is used. Use of leaded fuel will seriously damage the catalytic converters.
2. **Never** leave the vehicle unattended with the engine running.
3. Heavy impact on the converter casings must be avoided as they contain ceramic material which is easily damaged.
4. 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.
5. A correctly tuned engine optimises exhaust emissions, performance and fuel economy and it is recommended that the vehicle is regularly maintained as detailed in the maintenance schedules
6. **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, or engine run-on may lead to unusually high catalytic converter temperatures and may result in damage to the converters and vehicle.
7. 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.
8. **Do not** run the 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. tire pump, paint spray attachment, etc. as this could also result in catalytic converter damage.
9. The vehicle is designed for normal road use. Below are examples of abuse which could damage the catalytic converters and vehicle. These may lead to a dangerous condition due to excessively high catalytic converter temperatures.
 - Competition or off-road use.
 - Excessive engine speed.
 - Overloading the vehicle.
 - Switching off the engine whilst in gear.



Inertia switch

In the event of an accident, an inertia switch will 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 flexible cover 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.

5-2 Roadside emergency

Emergency starting

Rolling start



WARNING:

It will not be possible to push or tow start a vehicle with automatic transmission. Only jump lead starting or the fitting of a fully charged battery is recommended.

Emergency starting 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 handbrake is ON and, with automatic transmission, 'P' is 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:

1. **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.**
2. **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.**
3. **The booster battery voltage must not exceed 12 volts.**



The following procedure must be followed exactly, being careful not to cause sparks:

1. Apply the handbrake, select 'P' (automatic transmission vehicles only), and turn off all the vehicles electrical services.
2. To gain access to the battery, fold the trunk floor panel forward.

3. Unclip the battery positive (+) terminal cover.
4. 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.

5. 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 12 inches (305 mm) from the discharged battery. Make sure that a good connection is made.
6. When started, allow the engine to idle for five minutes before disconnecting the cables.
7. Disconnect the black jump lead from the earth point and the booster battery negative (-) terminal.
8. Disconnect the red jump lead from the positive (+) terminals of both batteries.
9. Refit the positive (+) terminal cover.
10. Refit the trunk floor panels.

5-4 Roadside emergency

Wheel changing and jacking

Be prepared for a flat tire. 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.

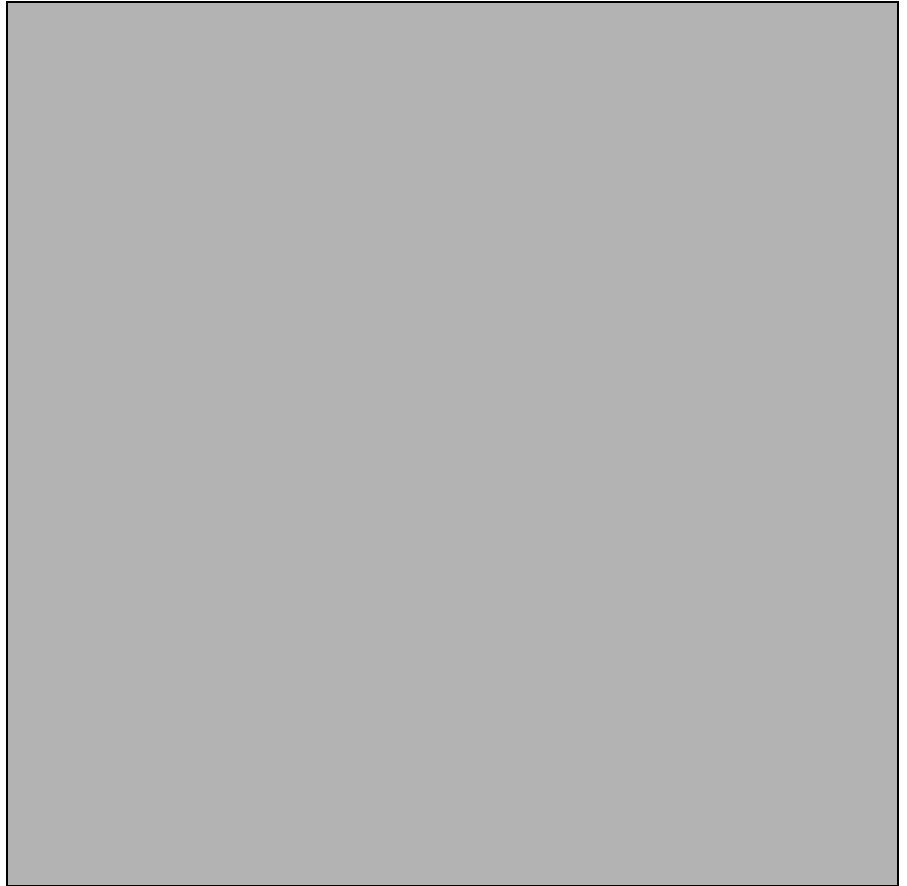


WARNING:

It can be dangerous to change a wheel when the vehicle is on a slope or soft, uneven ground.

The spare wheel and jacking equipment are stored in the trunk, under the floor panel.

To remove the spare wheel, fold the trunk floor panel towards the rear seats. Unscrew the retaining nut (A) and remove the spare wheel. Unscrew the retaining nut (B) and remove the jack and wheel nut wrench (and locking wheel nut kit, if fitted).



Wheel changing and jacking (continued)

Removing locking wheel nuts (where fitted)

Some vehicles are fitted with one locking wheel nut on each wheel. These can only be removed using the extractor tube and key socket provided.

The locking wheel nut has a cover which makes it visually similar to standard wheel nuts. The top of the cover has an indentation (A) to aid identification.

Push the extractor tube firmly over the locking wheel nut cover, as shown at (B), until it is fully located.

Withdraw the extractor tube to remove the cover.

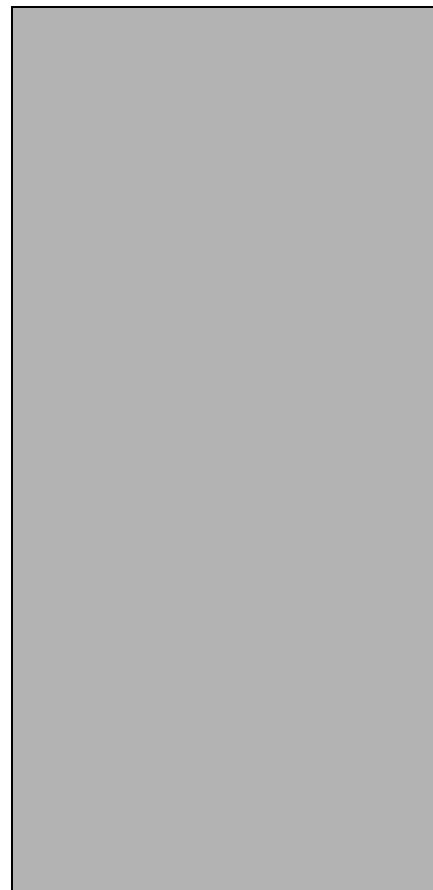
Fit the key socket over the locking wheel nut as shown at (C).

Fit the wheel nut wrench over the key socket and loosen the locking wheel nut.

Locking wheel nut security coding

Locking wheel nuts have a letter stamped on their upper surface. The key socket is stamped with a corresponding number. Only key sockets with the correct matching number will fit the locking wheel nut.

Should a new key socket be required, note the letter on the locking wheel nut and contact your Jaguar Dealer. Proof of vehicle ownership will be required.



5-6 Roadside emergency

Wheel changing and jacking (continued)

Note:

1. Ensure that all passengers are in a safe place, clear of the vehicle.
2. Firmly apply the handbrake and for automatic vehicles, select gear position 'P' (Park).
3. Ensure that the jack is on firm and level ground.



WARNING:

Before attempting to lift the vehicle with the jack, block a wheel diagonally opposite to the wheel being replaced to prevent the vehicle from rolling when jacked up.

Before raising the vehicle, using the wheel nut wrench, slacken, but do not remove the wheel nuts.



WARNING:

Never work under the vehicle using only the jack as a support, always use axle stands or suitable supports under the jacking points.

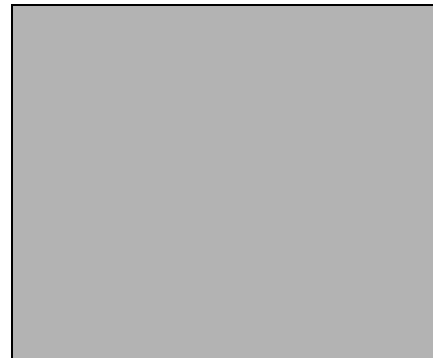
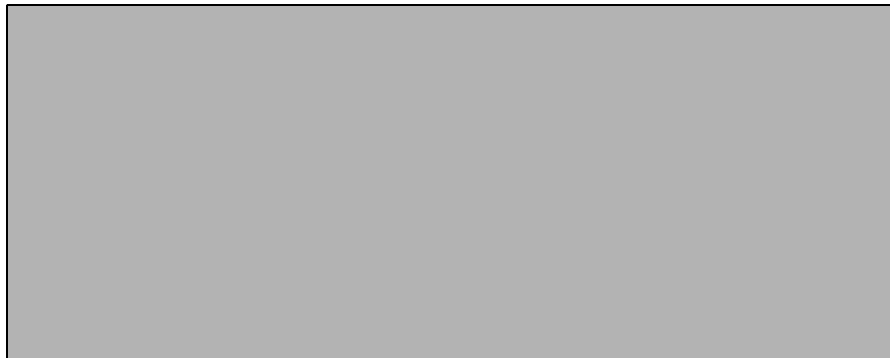
Observe the instructions printed on the jack.

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.

Note: When one rear wheel is lifted off the ground the automatic transmission 'P' (Park) position will not prevent the vehicle from moving and possibly slipping off the jack.

Caution: Ensure that when anyone requires to raise the vehicle that the jacks are correctly positioned to avoid any damage to the vehicle sills, sill panels or aluminium components. Use only the correct jacking points.



Wheel changing and jacking (continued)

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 7 inches (180 mm) from the front wheel and the rear is approximately 11 inches (280 mm) 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.

Caution: 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 arm is fully engaged in the jacking point.

Place the jack squarely beneath the appropriate jacking point. Ensure that the jack arm is fully engaged. Carefully raise the vehicle by turning the handle. Stop jacking the vehicle when the tire just clears the ground. Minimum tire lift gives maximum vehicle stability.

Remove the wheel nuts and the wheel.

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.

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 92 lbf.ft (125 Nm). This torque must not be exceeded.

5-8 Roadside emergency



Stowing the equipment

Stow the jack and wrench.

Stow the replaced road wheel in the trunk, position the wheel and secure with the retaining nut. Reposition the trunk floor panel.

Note: Examine the jack occasionally, clean and grease the threads to ensure it is always ready for an emergency.

Wheel changing and jacking (continued)

Remove the jack from the vehicle.

When changing the road wheels, transfer the centre badge to the replacement wheel. Using the rounded 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.

Vehicle recovery

The preferred vehicle recovery method is by using a flat bed transporter or rear suspended tow.

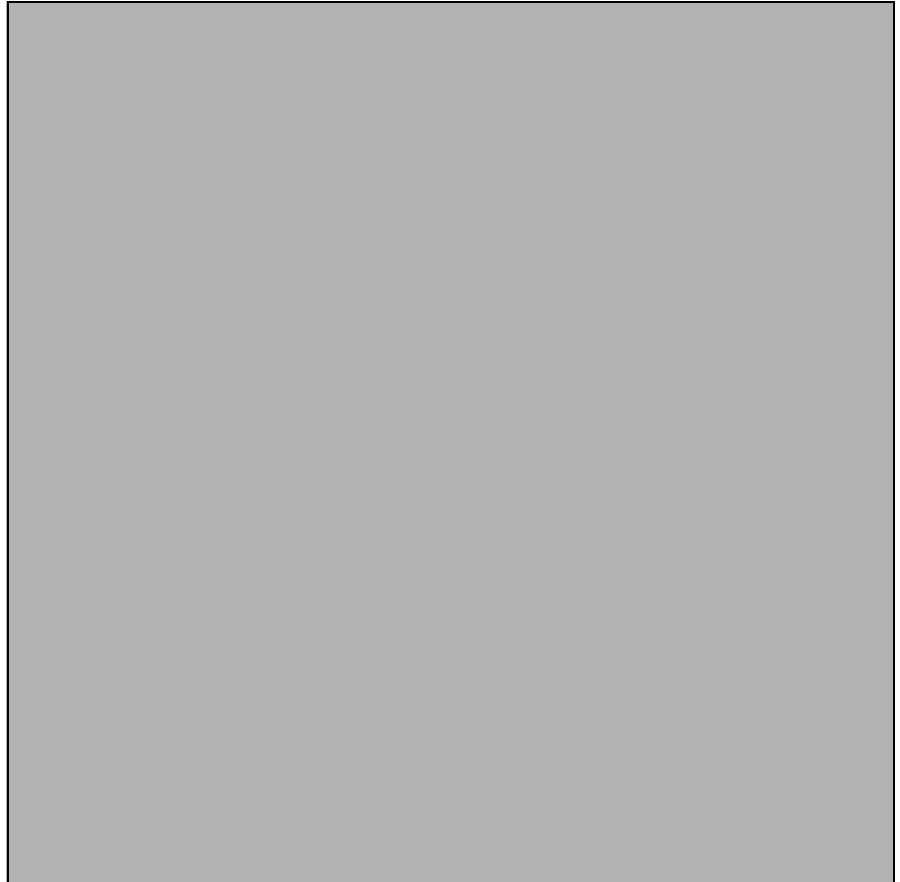
Caution:

- **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.**

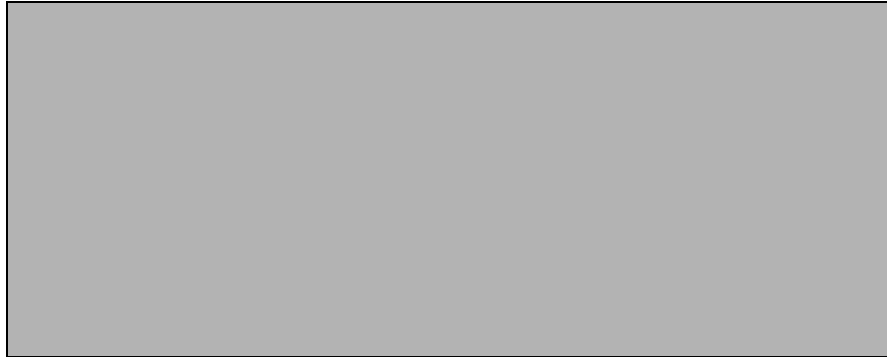
Transporting

If the vehicle is being transported on a trailer or vehicle flat bed transporter, the handbrake 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.



5-10 Roadside emergency



When being towed, the vehicle's gear selector lever must be in neutral (position 'N') with the ignition key turned to position 'II' to 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.

Transporter tie-down brackets



WARNING:

Avoid body contact with a hot exhaust pipe when using the tie down points.

There are two transporter tie-down brackets on the vehicle rear underbody. The brackets are inboard of the rear silencer tail pipes.

Use straps on the front wheels/tires to secure the vehicle for transportation.

The towing eye is not designed for securing the vehicle during transportation.

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, the towing distance must be restricted to 0.5 miles (0.8 km) and towing speed must not exceed 48 km/h.

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.



Towing eye

A towing eye is provided in the trunk, with the jack.

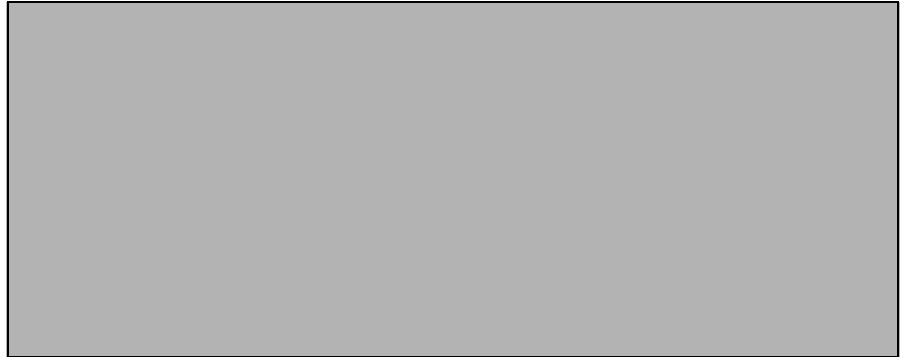
Caution:

- **The towing eye is not suitable for 'solid bar towing'.**
- **Care must be taken to avoid damaging the bumpers and front apron.**

The front towing point is the right-hand bumper mounting bracket.

Turn the three fasteners (A) anti-clockwise and remove the grill vane (B).

Screw the eye into the vehicle, right up to the shoulder.



The rear towing point is alongside the left-hand exhaust pipe.



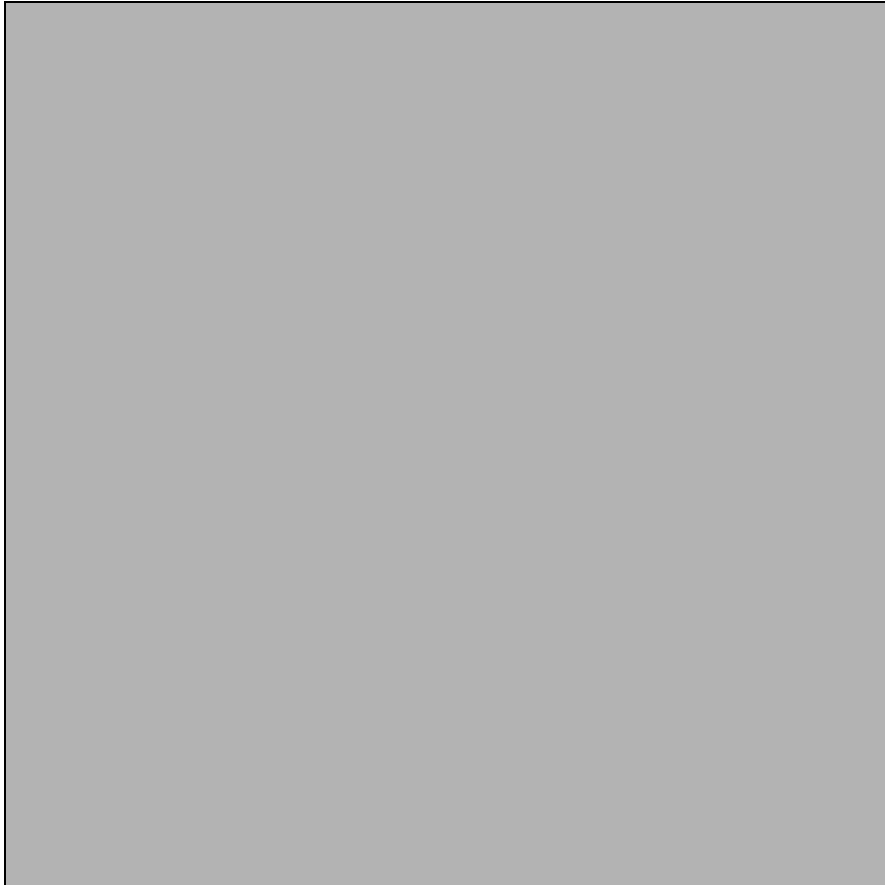
WARNING:

Avoid body contact with a hot exhaust pipe when fitting the eye to the rear towing point.

Prise off the cover plate in the rear bumper.

Remove the protective bung and screw the eye into the vehicle, right up to the shoulder.

5-12 Roadside emergency



Bulb renewal

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 headlamp units, the top cover must be removed.

Turn the fasteners (A) a quarter turn anti-clockwise and then remove the top cover.

After changing the defective bulb, refit the cover and push the fasteners (B) back in place to retain the cover.



Headlamp – bulb renewal

Caution: The bulbs are halogen type and 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) headlamp

Open the hood.

Remove the top cover as shown on page 5-12.

Turn the circular cover (A) anti-clockwise and remove.

Press the spring clip (B) towards the bulb and downwards to release the bulb.

Remove the bulb/connector (C) from the headlamp assembly. Pull the connector from the bulb.

Attach the connector to the new bulb, type H7 for dipped beam, and fit to the headlamp. The bulb will only correctly fit in one position.

Engage the spring clips to retain the bulb and then fit the circular cover.

Refit the top cover and close the hood.

It is advisable to have the headlamp aim checked by a Dealer after bulb renewal.

5-14 Roadside emergency

Main beam (inner) headlamp

Open the hood.

Remove the top cover as shown on page 5-12.

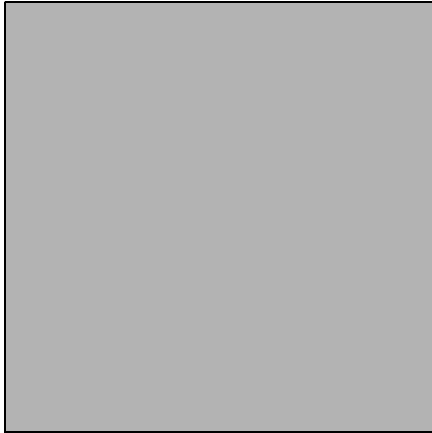
Turn the bulb holder a quarter turn anti-clockwise and remove the bulb and holder from the lamp unit.

Fit a new bulb to the holder, type HB3 for main beam.

Fit the holder to the lamp unit, the bulb will only correctly fit in one position.

Refit the top cover and close the hood.





Front parking (side) light – bulb renewal

Open the hood.

Remove the top cover as shown on page 5-12.

The front parking lights are contained within the outer headlamp units.

Rotate the bulb holder anti-clockwise and remove from the headlamp.

Pull the capless bulb from the holder and fit a new one of the correct type, W5W.

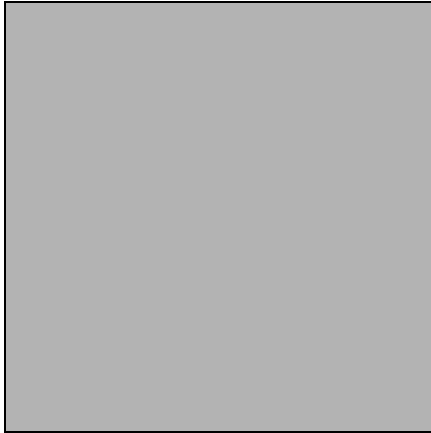
Reposition the bulb holder in the headlamp unit and turn clockwise.

Refit the top cover and close the hood.

Front fog lamp – bulb renewal

It is recommended that the front fog lamp bulb, type H3, is renewed by a Jaguar Dealer.

5-16 Roadside emergency



Front direction indicator – bulb renewal

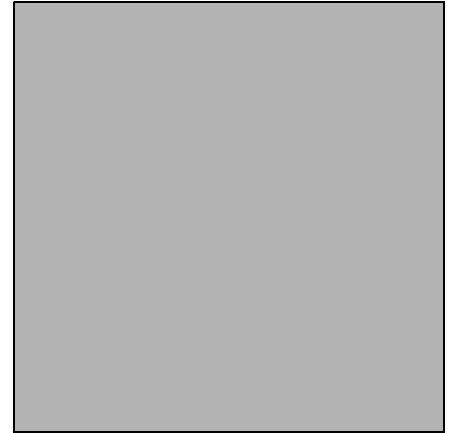
Remove the top cover as shown on page 5-12.

The bulb is contained within the outer headlamp. 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, 3357NAB5.

Fit the holder to the lamp unit, it will only fit in one position.

Refit the top cover and close the hood.



Number plate light – bulb renewal

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.

Side repeater indicator – bulb renewal

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.

5-18 Roadside emergency

Side marker – bulb renewal

Remove the light unit by pressing the lens downwards to compress the spring clips. Gently ease the top of the lens from the bumper and remove the complete unit.

Twist the bulb holder anti-clockwise and remove the holder and bulb from the lens.

Fit a new bulb of the correct type, W5W.

Refit the bulb holder complete with bulb to the lens unit.

Press the unit into the recess until it clicks into place.



Rear light assembly – bulb renewal

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 trunk, loosen the side carpet 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.

5-20 Roadside emergency



Fuses and fuse boxes

Fuse failure is identified by an inoperative circuit.

Do not fit a new fuse if the wiring is damaged; contact a Jaguar Dealer. After renewing a fuse have the circuit checked by a Jaguar Dealer.

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 the mini-fuse is provided in the passenger 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 and renewing a blown fuse

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.

Mini-fuse renewal

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.

Cartridge fuse renewal

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:

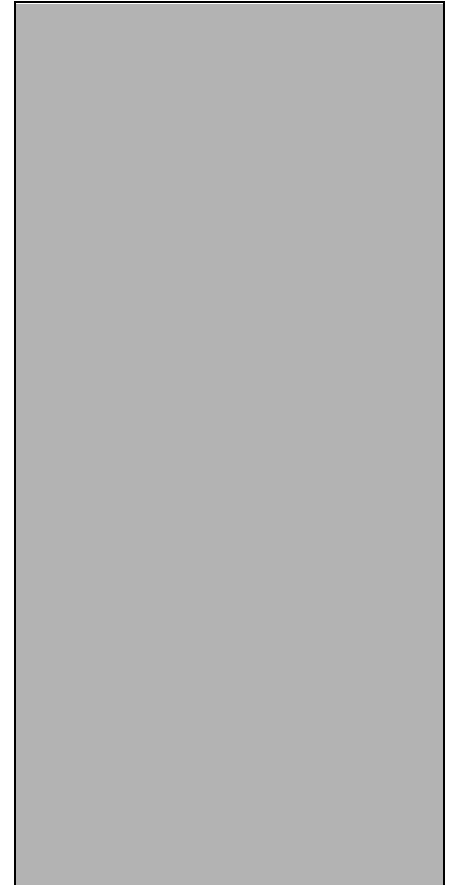
- 1. Do not fit a fuse of a different amperage from that removed. The electrical circuits may become overloaded with the subsequent possibility of a fire.**
- 2. No attempt should be made to repair a fuse that has blown. This may cause a fire hazard or serious damage elsewhere in the electrical circuit.**

Fuse box locations

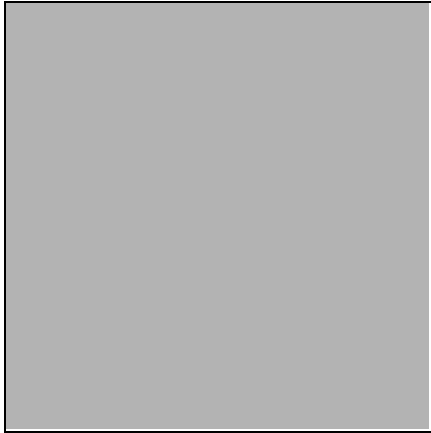
There are three separate fuse boxes fitted to the vehicle, each one containing fuses protecting a different group of circuits.

They are located in:

- A. the engine compartment**
- B. the passenger compartment**
- C. the trunk**



5-22 Roadside emergency



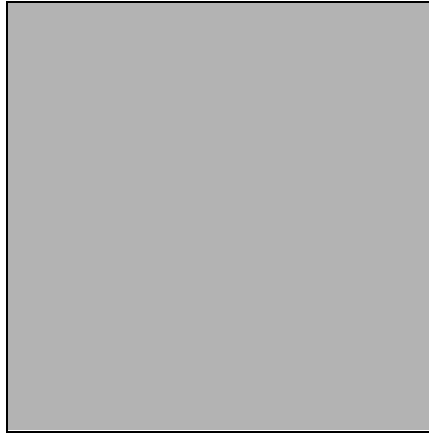
Engine compartment fuse box

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.

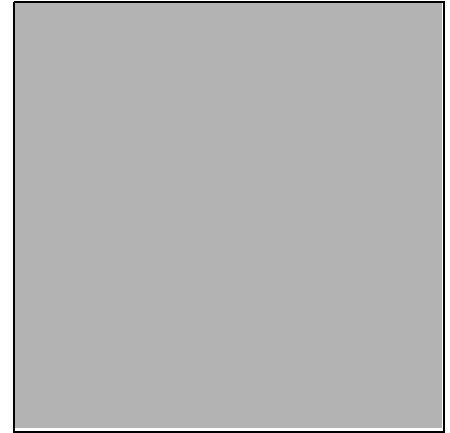


Passenger compartment fuse box

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 refitting, press the fuse box lid in the area of the retaining lugs until the lid engages.



Trunk fuse box

A fuse box is located in the trunk, situated forward of the battery.

Fold the trunk floor panel to gain access to the fuse box.

Remove the fuse box lid by pulling the retaining clips and pulling the lid upwards.

Reposition the lid and press down until the retaining clips engage.

Replace the floor panel.

Fuse Positions

- A – Engine compartment fuse box
- B – Passenger compartment fuse box
- C – Trunk fuse box

Spare fuses

5-24 Roadside emergency

Fuse locations and details

Engine compartment fuse box

| Fuse No | Fuse Type | Rating (amps) | Colour | Circuit |
|---------|-----------|---------------|--------|--|
| 1 | mini | 10 | Red | Air conditioning clutch, (auxiliary water pump – V8 engine only) |
| 2 | mini | 10 | Red | Windshield washer pump |
| 3 | mini | 15 | Blue | Fog lamp, LH/RH |
| 4 | mini | 15 | Blue | Horns |
| 5 | mini | 20 | Yellow | Fuel injection |
| 6 | mini | 15 | Blue | Transmission solenoid |
| 7 | | | | Not used |
| 8 | | | | Not used |
| 9 | | | | Not used |
| 10 | | | | Not used |
| 11 | mini | 15 | Blue | Heated oxygen sensors, air conditioning clutch coil relay |
| 12 | mini | 10 | Red | Coil on plugs |

Engine compartment fuse box (continued)

| Fuse No | Fuse Type | Rating (amps) | Colour | Circuit |
|---------|-----------|---------------|--------|---|
| 13 | cartridge | 40 | Green | LH heated windshield |
| 14 | cartridge | 30 | Pink | ABS module |
| 15 | cartridge | 40 | Green | RH heated windshield or Heated wiper park |
| 16 | cartridge | 30 | Pink | Blower motor |
| 17 | | | | Not used |
| 18 | cartridge | 40 | Green | Powertrain Control Module (PCM) |
| 19 | | | | Not used |
| 20 | | | | Not used |
| 21 | cartridge | 30 | Pink | Starter solenoid |
| 22 | cartridge | 30 | Pink | ABS motor |
| 23 | cartridge | 20 | Blue | Wiper motor |
| 24 | cartridge | 30 | Pink | Headlamp washer pump |
| 25 | | 80 | | Cooling fan motor |

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Passenger compartment fuse box

| Fuse No | Fuse Type | Rating (amps) | Colour | Circuit |
|---------|-----------|---------------|--------|--|
| 1 | mini | 5 | Brown | Starter relay coil via Park/Neutral switch |
| 2 | mini | 5 | Brown | Radio |
| 3 | mini | 5 | Brown | ABS/Dynamic Stability Control (DSC) module |
| 4 | mini | 5 | Brown | Powertrain Control Module (PCM) relay coil, instrument cluster, fuel pump relay, Rear Electronic Module (REM), transit relay |
| 5 | mini | 5 | Brown | Autolamp sensor, traction control switch, overdrive cancel switch, heated seat modules, brake shift interlock. |
| 6 | mini | 10 | Red | OBDII |
| 7 | mini | 5 | Brown | Driver's Door Module (DDM), Driver's Seat Module (DSM), Powertrain Control Module (PCM), Passive Anti-Theft System (PATS) LED, security horn, power mirror |
| 8 | mini | 5 | Brown | Right front – direction indicators, side repeaters, side markers, parking lights |
| 9 | mini | 10 | Red | Right front – low beam headlamp |
| 10 | mini | 5 | Brown | Left front – direction indicators, side repeaters, side markers, parking lights |
| 11 | mini | 10 | Red | Left front – main beam headlamp |
| 12 | mini | 10 | Red | Headlamp levelling |
| 13 | mini | 5 | Brown | Instrument cluster |
| 14 | mini | 10 | Red | Restraints Control Module (Airbag), Dual Automatic Temperature Control Module |

Passenger compartment fuse box (continued)

| Fuse No | Fuse Type | Rating (amps) | Colour | Circuit |
|---------|-----------|---------------|--------|---|
| 15 | mini | 5 | Brown | Adaptive damping module |
| 16 | mini | 5 | Brown | Heated seat switch module, electrochromic mirror, rain sensor |
| 17 | mini | 5 | Brown | Restraints Control Module (Airbag) and alternator warning lamp |
| 18 | mini | 20 | Yellow | Radio, cellular phone, navigation |
| 19 | mini | 15 | Blue | Steering column motors |
| 20 | mini | 10 | Red | Generic Electronic Module (GEM), air conditioning, instrument cluster, rear electronic control module |
| 21 | mini | 10 | Red | Power folding mirror, sunblind |
| 22 | mini | 10 | Red | Driver's door mirror |
| 23 | mini | 10 | Red | Right front – main beam headlamp |
| 24 | mini | 5 | Brown | Passive Anti-Theft System (PATS) |
| 25 | mini | 10 | Red | Left front – low beam headlamp |
| 26 | | | | Not used |
| 27 | mini | 10 | Red | Navigation display, radio, phone, navigation module, traffic master |
| 28 | mini | 5 | Brown | Security horn |
| 29 | mini | 5 | Brown | Voice control, reverse park aid, trailer tow ignition sense, Vehicle Emergency Messaging System (VEMS), Generic Electronic Module (GEM) |

5-28 Roadside emergency

Passenger compartment fuse box (continued)

| Fuse No | Fuse Type | Rating (amps) | Colour | Circuit |
|---------|-----------|---------------|--------|---|
| 30 | mini | 5 | Brown | Generic Electronic Module (GEM), passenger power mirror |
| 31 | mini | 10 | Red | Not used |
| 32 | mini | 20 | Yellow | Accessory socket, cigar lighter |
| 33 | mini | 10 | Red | Generic Electronic Module (GEM) |
| 34 | mini | | | Not used |
| 35 | mini | 5 | Brown | Stop lamp switch |

Luggage compartment fuse box

| Fuse No | Fuse Type | Rating (amps) | Colour | Circuit |
|---------|-----------|---------------|--------|--|
| 1 | mini | 15 | Blue | Luggage compartment lid release |
| 2 | mini | 10 | Red | Right rear – reverse lamp, direction indicator, side markers, fog lamps, licence plate |
| 3 | mini | 10 | Red | Left stop lamp, tail lamp, trailer tow relay |
| 4 | mini | 10 | Red | Fuel flap release, trunk lamp |
| 5 | mini | 10 | Red | Courtesy and map lamps |
| 6 | mini | 10 | Red | Left rear – reverse lamp, direction indicator, side markers, fog lamps |
| 7 | mini | 10 | Red | Right stop lamp, tail lamp |
| 8 | mini | 10 | Red | High mounted stop light |
| 9 | mini | 5 | Brown | Heated mirror |
| 10 | mini | 5 | Brown | Traffic master |
| 11 | mini | 15 | Blue | Seat heaters |
| 12 | mini | 5 | Brown | Transit relay |
| 13 | mini | 15 | Blue | Adaptive damping module |
| 14 | mini | 5 | Brown | Cellular phone, CD changer, Vehicle Emergency Messaging System (VEMS) |
| 15 | mini | 5 | Brown | Alternator Sensor |
| 16 | mini | 20 | Yellow | Sunroof |

5-30 Roadside emergency

Luggage compartment fuse box (continued)

| Fuse No | Fuse Type | Rating (amps) | Colour | Circuit |
|---------|-----------|---------------|--------|--|
| 17 | mini | 15 | Blue | Fuel pump |
| 18 | mini | 20 | Yellow | Subwoofer amplifier |
| 19 | cartridge | 20 | Blue | Rear Electronic Module (REM) – left rear window |
| 20 | cartridge | 30 | Pink | Driver's door module (DDM) – driver's window |
| 21 | cartridge | 30 | Pink | Driver's lumbar |
| 22 | cartridge | 20 | Blue | Ignition |
| 23 | cartridge | 30 | Pink | Switched system power 4 |
| 24 | cartridge | 30 | Pink | Switched system power 3 |
| 25 | cartridge | 40 | Green | Primary Junction Box (PJB) |
| 26 | cartridge | 20 | Blue | Generic Electronic Module (GEM) – passenger window |
| 27 | cartridge | 30 | Pink | Switched system power 1 |
| 28 | cartridge | 30 | Pink | Passenger lumbar |

Luggage compartment fuse box (continued)

| Fuse No | Fuse Type | Rating (amps) | Colour | Circuit |
|---------|-----------|---------------|--------|--|
| 29 | cartridge | 30 | Pink | Rear screen defrost |
| 30 | cartridge | 20 | Blue | Rear Electronic Module (REM) – right rear window |
| 31 | | | | Not used |
| 32 | cartridge | 30 | Pink | Switched system power 2 |

General maintenance precautions

- Ensure that the vehicle is securely supported before working underneath it. Chock a front wheel and apply the handbrake.
 - Whenever possible use a suitable wheel-free lift when working beneath the vehicle. If a jack is used to support the vehicle, use axle stands carefully placed at the jacking points to provide a rigid support. Do not use any jacking equipment under the front cross member.
 - Ensure that adequate ventilation is provided when volatile degreasing agents are being used.
 - Never use volatile cleaning fluids under a vehicle standing over a pit. Many such fluids give off vapours which are heavier than air and dangerous to inhale.
 - Wear protective overalls, ensure loose clothing (ties, etc.) are removed or covered when working adjacent to moving components (fan belts, etc.).
 - Do not leave opened containers of oil, fuel, etc., about the work area. Always refit caps/seals to partially used containers when storing them for later use.
 - Do not leave tools, equipment, spilt oil, etc., around or on the work area.
 - Place a fire extinguisher close to the vehicle and disconnect the negative battery terminal.
- Note:** The radio code will be required on battery reconnection. Also the clock must be reset. The trip computer memories will be erased when the battery is disconnected.
- Do not use a naked flame to provide illumination, especially under the vehicle, or in the engine and luggage compartments. Do not smoke while working on the vehicle.
 - Do not apply heat in an attempt to free nuts or fittings. This will damage protective coatings and there is a risk of damage to electronic equipment and brake and fuel lines from conducted heat.
 - Inspect power leads of any mains electrical equipment for damage, and check that it is properly earthed.

6-2 Maintenance

General precautions against damage

- When working in the engine compartment protect the exterior paintwork by using suitable covers over the wings and scuttle.
- To prevent soiling the interior, carry out jobs requiring access to the passenger or luggage compartments first. If a job involves access to the interior in the course of other work, prevent the transfer of oil and grease to the interior by using seat and carpet covers and wearing clean overalls and gloves.
If protective seat covers have been used they must be removed before the vehicle is driven on the public highway to ensure that, if needed, the side airbags can properly deploy.
- Always use a recommended service tool, where specified.
- Avoid spilling hydraulic fluid or battery acid on paintwork. Wash off with water immediately if this occurs.

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: It is illegal to pollute drains, water courses and soil. Use authorised waste collection facilities, including civic amenity sites and garages providing facilities for the disposal of used oil, oil filters and batteries. If in doubt, contact your Local Authority for advice on disposal.

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.

Battery/ignition isolator switches

Non-approved battery isolator switches, which disconnect the power supply to all electrical circuits, are not recommended.

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.

Hood release



WARNING:

Take care to keep away from rotating components if the engine is running when you open the hood.

Release the hood lock by pulling the lever below the fascia on the driver's side of the vehicle.

Lift up the hood with the left hand and with the right hand pull up the safety catch under the hood, located to the right of the grille. The gas filled struts will assist raising the hood, and retain it in the fully open position.

Note: Do not use the leaping Jaguar mascot as an aid to opening or closing the hood.

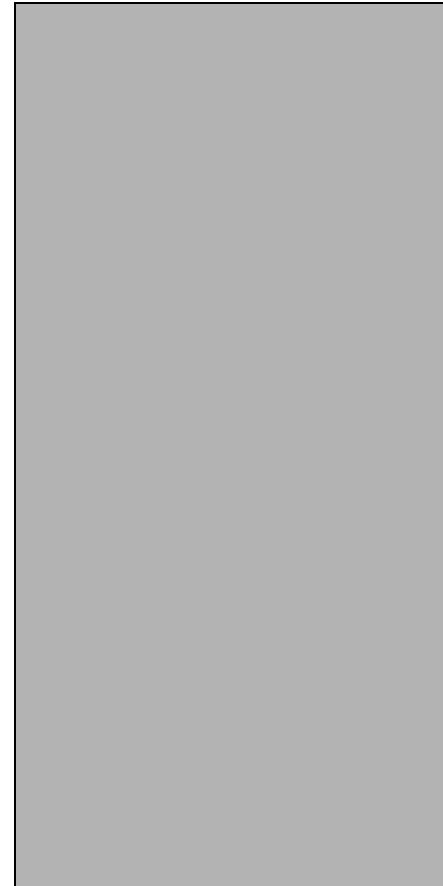
Hood closing



WARNING:

Before closing the hood 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 hood to within a distance of 10 to 12 inches (250 to 300 mm) of the fully closed position, then let go to allow the hood to shut. Check by pulling the hood that both the right-hand and left-hand latches are engaged.



6-4 Maintenance

Regular checks

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

Tires – Check the tires, including the spare, for condition and pressure. Tire pressures are shown inside the front cover of this handbook.

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 replenish 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.

Brake fluid – Check the level of the fluid in the brake fluid reservoir. Replenish 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.

Power steering fluid – With the engine cold check the level of the fluid in the power steering fluid reservoir. Replenish if necessary with fluid of the correct specification. Any loss of fluid should be checked by a Jaguar Dealer.

Note: The automatic transmission (gearbox) unit is sealed for life and does not require checking or replenishing.

Monthly

Windscreen washer fluid – Replenish 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.

Wiper blades – Check the quality of the wiper. If smearing or juddering is evident, clean the windscreen and renew the wiper blades.

Reservoir and dipstick locations V6 engine

1. Power steering reservoir
2. Engine oil dipstick
3. Engine oil filler
4. Windscreen wash reservoir
5. Brake/clutch reservoir
6. Coolant reservoir

6-6 Maintenance

Reservoir and dipstick locations V8 engine

1. Engine oil filler
2. Engine oil dipstick
3. Power steering reservoir
4. Windscreen wash reservoir
5. Brake reservoir
6. Coolant reservoir

Checking and replenishment

Check engine oil level

Check the oil level regularly with the vehicle on flat, level ground.

Refer to page 6-5 or 6-6 for dipstick and oil filler locations.

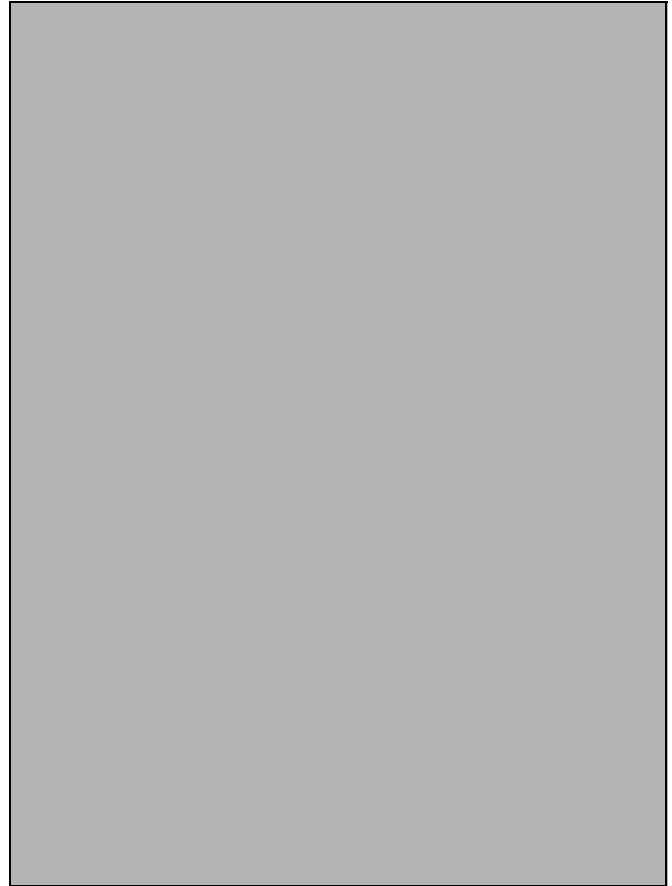
It is preferable to check the oil level after the vehicle has been standing, that is, with the engine completely cold.

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 two minutes to allow the oil to drain back into the sump.

Remove the dipstick (A) 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 (B) and add oil, to the quantity and specification shown on the next page.

Refit the filler cap and hand tighten securely.



6-8 Maintenance

Recommended Engine Oil

4.0 litre V8 engines and 3.0 litre V6 Engines

Oil Specification –

API SJ/EC and ILSAC GF2

When topping up between oil changes, make sure that you use oil that has the correct quality level (API service) and viscosity grade. Your vehicle's warranty may be invalidated if damage is caused by use of improper engine oil.

SAE Viscosity Rating

Recommended SAE Viscosity Range /
Ambient Temperature Scale

It is recommended that you use only approved engine oils to meet the SAE Viscosity Range/Ambient Temperature Scale shown below.

For maximum fuel economy, SAE 5W/30 oil of ILSA GF-2 quality is recommended.

To chose the correct viscosity grade, consider the temperature in which the vehicle is driven. The use of SAE 5W/30 is PREFERRED in most climate conditions, although SAE 10W/30 or 10W/40 oils are acceptable in moderate to hot climates.

When the oil level is at the lower dipstick mark, add 1 quart (1 litre) of oil.



Checking and replenishment (continued)

Check power steering fluid reservoir

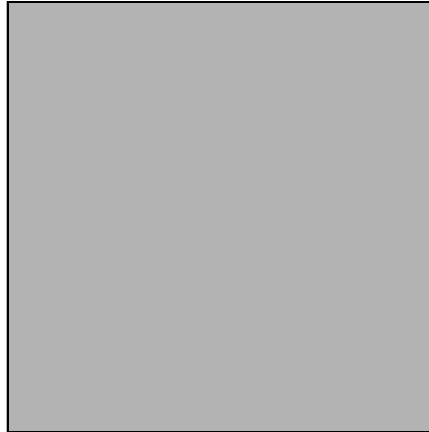
Caution: It is imperative that the power steering system does not become contaminated in any way. Always dispense fluid from a fresh sealed container and clean the area around the reservoir neck both before and after replenishment. Never return drained fluid to the system.

See page 6-5 or 6-6 for power steering fluid reservoir location.

Check through the sight window, that the fluid level is between the two marks.

If necessary, replenish with power steering fluid to specification **DEXRON III, DO NOT OVERFILL**. Wipe clean and remove the filler cap from the reservoir; take great care to prevent any foreign matter from entering.

Should the level be very low, report the loss of fluid to the nearest Jaguar Dealer.



6-10 Maintenance

Checking and replenishment (continued)

Check brake fluid reservoir

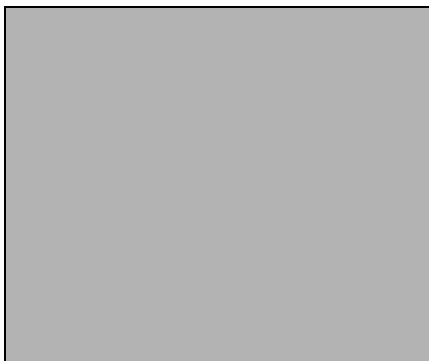


WARNING:

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. Do not drive the vehicle until the cause is rectified.

Caution:

1. **While handling brake fluid, take extreme care; brake fluid must not contact the vehicle paintwork.**
2. **Always use fresh, clean fluid from a new container. Never introduce used brake fluid into the system.**



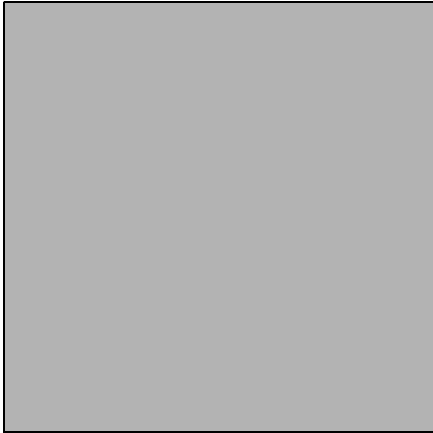
See page 6-5 or 6-6 for the brake fluid reservoir location.

The fluid is visible through the translucent casing of the reservoir and must be maintained at the 'MAX' mark.

If necessary, replenish as follows:

1. Before removing the cap, clean the reservoir and cap thoroughly with a lint free cloth to ensure that no foreign matter enters the reservoir.
2. Unscrew the filler cap and replenish to the 'MAX' level using brake fluid to specification Jaguar Super DOT 4 (ESA-M6C25-A).
3. 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 replenishment (continued)

Check windscreen washer/headlamp powerwash reservoir

See page 6-5 or 6-6 for windscreen washer reservoir location.

The washer reservoir contains the fluid for the windscreen washers and the headlamp powerwash system (where fitted).

Fill to just below the neck with specially formulated windscreen washer fluid diluted with clean, preferably soft water as specified in the instructions on the bottle. Specially formulated washer fluids contain additives that dissolve road grime.

Do not over-fill.

State or local regulations on Volatile Organic Compounds (VOC's) may restrict the use of the most common anti-freeze, methanol. Washer fluids containing non-methanol anti-freeze agents should only be used if they provide cold weather protection without damaging the vehicle's paint finish, wiper blades and windscreen washer system.

Cold weather precautions

To prevent damage to the pump during freezing conditions, use specially formulated washer fluid, diluted with water to the correct strength as shown on the container, 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.

6-12 Maintenance

Checking and replenishment (continued)

Check coolant level

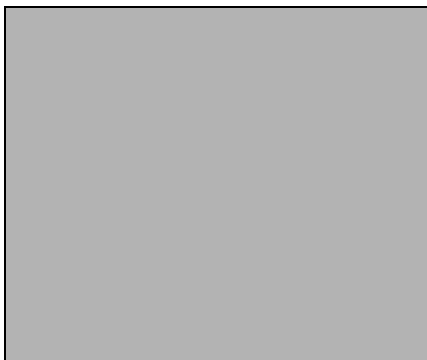
The coolant level must only be checked when the engine is COLD.

See page 6-5 or 6-6 for coolant header tank location.



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.



The coolant level should be between the two marks located on the side of the header tank. If persistent coolant loss is noticed have a Jaguar Dealer investigate the cause immediately.

Replenishing



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.

Caution: Anti-freeze will damage paintwork. Avoid spillage.

Top up with the correct strength anti-freeze and water, (see next page), until the coolant is within the 'max' and 'min' marks on the header tank.

Refit the filler cap and hand tighten securely until the ratchet operates.

Engine anti-freeze

Anti-freeze, when used at the correct concentration, not only protects the engine from frost damage in winter, it also provides all year round protection against internal corrosion.

The cooling system should be filled or replenished with a mixture of 50 per cent water and 50 per cent anti-freeze, conforming to specification:

WSS-M97B44-D, coloured orange,
Extended Life Coolant.

This mixture gives frost protection for temperatures down to -40°C .

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 156,000 miles (250,000 km) after which the system should be drained, flushed and refilled.

Engine block heater

For further information consult your Jaguar Dealer.

Caution: The fitting of an engine block heater does not eliminate or lessen the need for anti-freeze under freezing conditions.

6-14 Maintenance

Capacities

| | US Quarts | Litres |
|--|-----------|--------|
| Engine oil | | |
| V6 engine, including oil filter | 6.7 | 6,4 |
| V8 engine, including oil filter | 6.9 | 6,5 |
| The rear axle (final drive unit) and automatic transmission unit (gearbox) will not normally require to be checked or topped up. | | |
| Cooling system, including reservoir and climate control | | |
| V6 engines | 11.0 | 10,4 |
| V8 engines | 10.5 | 10,0 |
| Windscreen washer reservoir | | |
| – without headlamp power wash | 4.6 | 4,4 |
| – with headlamp power wash | 6.9 | 6,6 |

Fuel Tank

| | US Gallons | Litres |
|------------------------------|------------|--------|
| Fuel tank capacity | 18.3 | 69,5 |

Battery

A low maintenance battery specifically designed for use with this vehicle is fitted in the luggage compartment.



WARNING:

1. **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.**
2. **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.**
3. **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.**

4. 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.

5. California Proposition 65:

Battery posts, terminals and related accessories, contain lead and lead compounds. Wash hands after handling.

Caution:

1. **Switch off ignition before disconnecting battery terminals. Always disconnect the earth terminal first and reconnect last.**
2. **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.

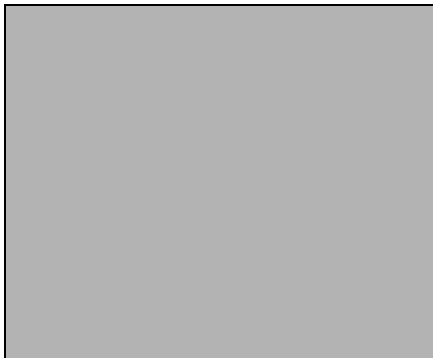
We recommend that the battery charge is checked frequently if the vehicle is used mostly for short distance trips, or if it is not used for long periods of time.

Generator

To prevent damage to the generator, do not run the engine while the battery or any of the charging circuit cables are disconnected.

The generator 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.

6-16 Maintenance



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 trunk floor panel forwards.

Unscrew the six cell plugs. Check that the electrolyte is level with the plastic level indicator (A). If necessary, replenish 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 floor panel.

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' on the next page.

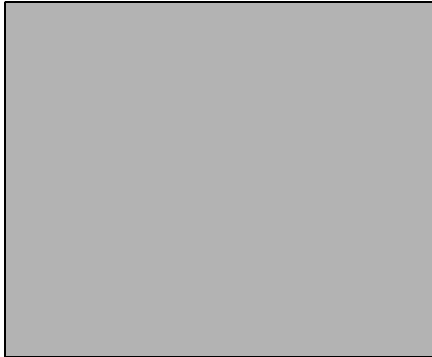
When charging the battery ensure that the charge voltage is the same as the nominal voltage of the battery.

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.

Check, and if necessary top-up, the electrolyte level when the battery is fully charged.



Battery lead disconnection

Note: Upon battery lead disconnection, both trip computer memories (A and B) will be erased. On reconnection the radio will require recoding and the clock will need to be reset.

Fold the trunk floor panel forwards.

Caution:

1. Under no circumstances should a battery be disconnected whilst the ignition circuit is live, as permanent damage to the instrument cluster may occur.
2. Disconnect the negative lead (earth terminal) first.

Unclip the battery positive terminal cover.

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-ring 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. Refit the floor panels.

After the battery has been reconnected and the ignition switch is turned to position 'II', the message centre display 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.

Reset the clock to the correct time.

The radio will not operate until the correct security code has been re-entered. Refer to the Audio Systems Handbook.

Note: When the battery is disconnected and reconnected, some abnormal drive symptoms may occur while the vehicle relearns its adaptive strategy. The vehicle may need to be driven 10 miles (16 kilometres) or more to relearn the strategy.

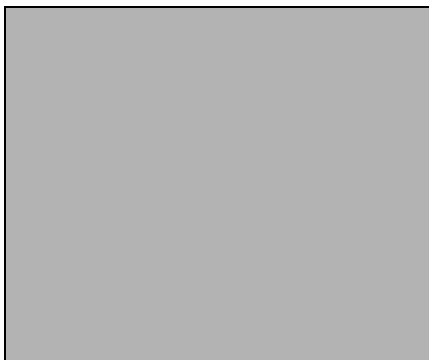
6-18 Maintenance

Windscreen wipers

Note:

1. The wiper blades will be renewed at every service interval.
2. 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 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.

Inspect the wiper blades, and if there any signs of wear or damage; renew the blades.

Renew the wiper blades before and after each winter, or more often if required.

Wiper blade renewal

Move the wiper arm away from the windscreen, squeeze the retaining clip and withdraw the wiper blade from the arm. After fitting the new blade, check that it is held firmly in position.

Windscreen washers

Two windscreen washer nozzles are mounted on the hood. Each nozzle directs two spray patterns to the windscreen.

Note: The windscreen wiper jets and headlamp washer jets are not adjustable.

Tires

Tires of the correct type, manufacturer and dimensions, with correct cold inflation pressures are an integral part of every vehicle's design. Regular maintenance of tires contributes not only to safety, but to the designed function of the vehicle. Roadholding, steering and braking are especially vulnerable to incorrectly pressurised, badly fitted or worn tires.

Tires of the correct size and type but of different make have widely varying characteristics. It is therefore recommended that Jaguar approved tires are fitted to all wheels.

Do not interchange tires from side to side, front to rear or vice versa as tire wear produces characteristic patterns depending upon their position and, if the position is changed after wear has occurred, the performance of the tire will be adversely affected.

A tire recommendation placard is placed on the right-hand front door post, giving information specific to the vehicles wheel and tire equipment.

Jaguar recommended tires

16 inch wheels:

Bridgestone 225/55R16H all season with Uniform Tire Quality Grading Standards:

| | |
|-------------|-----|
| Treadwear | 300 |
| Traction | A |
| Temperature | A |

17 inch wheels:

Pirelli P-Zero 235/50R17 96W with Uniform Tire Quality Grading Standards:

| | |
|-------------|-----|
| Treadwear | 140 |
| Traction | A |
| Temperature | A |

Continental ContiSportContact 245/45R17 95W with Uniform Tire Quality Grading Standards:

| | |
|-------------|-----|
| Treadwear | 280 |
| Traction | A |
| Temperature | A |

Tire renewal

When renewal of tires is necessary it is preferable to fit a complete vehicle set. Should either front or rear tires only show need for renewal, new tires must be fitted, as axle sets, to replace worn ones.

Note: After new tires have been fitted the wheels need to be dynamically balanced.

The radial ply tires specified are designed to meet the high-speed performance capability of this vehicle.

Do not fit tires with a different tread pattern, size or speed rating.

Tire pressures

The tire pressures recommended (see page 7-6) provide optimum ride and handling characteristics for all normal operating conditions. The pressures should be checked, and correctly set, if necessary, once per week. This should be done with the tires cold. Tire temperatures and pressures increase when running.

Deflating a warm tire to the recommended pressure will result in under-inflation which may be dangerous.

A slight natural pressure loss occurs with time. If this exceeds 2 lbf/in² (0,14 bar, 14 kPa, 0,14 kg/cm²) per week, the cause should be investigated and rectified.

It is an offence in certain countries to drive a vehicle with tires that are not inflated in accordance with the vehicle's proper use.

6-20 Maintenance



Wear

All tires fitted as original equipment include tread wear indicators (TWI) in their tread pattern. When the tread has worn to a remaining depth of 0.063 inch (1,6 mm) the indicators appear at the surface as bars which connect the tread pattern across the full width of the tire.

It is illegal, in certain countries, to continue to use tires after the tread has worn to less than 0.063 inch (1,6 mm) over three quarters of the width and the entire circumference of the tire.

It should be noted that the properties of many tires 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 tire 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.

Tire repair

It is recommended that damaged tires are discarded and new tires 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 tire to fracture and may lead to premature failure. Tires should be examined especially for cracked walls, exposed cords, etc. Flints and other sharp objects must be removed from the tire 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.

Tire use after vehicle storage

After a long period of a vehicle standing, tires may become locally distorted with a flat area. This will cause an uneven ride for a few miles until the tires have warmed up and the 'flat' rounds off.

However, to reduce the effects of flat-spotting, the tires of a stored vehicle may be inflated to pressures not exceeding 50 lb/in² (3,4 bar, 343 kPa).

United States Department of Transportation/Uniform Tire Quality Grades

The following information relates to the tire grading system developed by the National Highway Traffic Safety Administration which will grade tires by tread wear, traction and temperature performance.

Tread wear

The tread wear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and a half (1½) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction – AA, A, B, C

The traction grades, from the highest to the lowest are AA, A, B and C, and they represent the tire's ability to stop on wet pavements as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked 'C' may have poor traction performance.



WARNING:

The traction grade assigned to this tire is based on braking (straight ahead) traction tests and does not include cornering (turning) traction.

Temperature – A, B, C

The temperature grades 'A' (the highest), 'B' and 'C' representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel.

Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure.

The grade 'C' corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109.

Grades 'B' and 'A' represent higher levels of performance on the laboratory test wheel than the minimum required by law.



WARNING:

The temperature grade for this tire is established for a tire that is properly inflated and not over loaded. Excessive speed, under-inflation or excessive loading, either separately or in combination, can cause heat build-up and possible tire failure.

6-22 Maintenance

Winter (snow) tires

The tires 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 tires will considerably improve the vehicle's handling during these conditions.

It is recommended that only Jaguar approved winter tires are used, as follows:

Winter 16 Inch Wheels

Pirelli Winter 210 225/55R16 95H

or

Continental ContiWinterContact
225/55R 16 95H

Winter 17 Inch Wheels

Pirelli Winter 210 235/50R 17 100H

Caution: Tire 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 130 mph (210 km/h) when using Jaguar approved winter tires.

Winter tires must be used in vehicle sets, that is, fitted on all four wheels.

Tires other than those recommended must be inflated to the following cold inflation pressure (front and rear):

44 lbf/in² (300 kPa, 3,1 kg/cm², 3,0 bar)

In the event of using non-Jaguar approved winter tires, inflate to the above recommended tire pressure and do not exceed the tire's speed capability.

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.

Note: Traction control MUST be switched OFF when using snow chains.

The maximum speed when using snow chains is 30 mph (48 km/h).

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.

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 tires always advise the tire 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 tire levers must not be used.

In compliance with German Road Traffic Law the size of the wheel rims is stamped or cast on all wheels.

Wash the wheels 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.

The use of Jaguar Vehicle Shampoo is recommended.

6-24 Maintenance

Vehicle care

Valet kit

A valet kit containing a selection of Car Care products is available from the Jaguar accessory range.

Interior care

Brush and clean the interior regularly. Use a vacuum cleaner where possible to remove all dust from the interior and trim.

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 Dealer 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

Dust and dirt can penetrate the pores and creases of leather, causing surface wear and brittleness.

Use only mild non-caustic soap.

Clean regularly, every two to three months, with natural materials to maintain the leather in first class condition.

Wipe the surfaces using a cloth which has been dampened with warm soapy water and then wrung out; avoid over-wetting. Dry off and rub with a clean soft cloth, changing surfaces regularly. Use Jaguar Leather Cleaner for heavily soiled areas.

Note: Do not use solvents such as petrol (gasoline), white spirit or alcohol. Do not use detergents, furniture polish or household cleaners. Although such treatments may give, initially, an impressive appearance, their use will lead to rapid damage or deterioration of the leather, and will not be covered by the Manufacturer's Warranty. Unless spillages of tea, coffee or ink are washed away immediately, permanent staining may have to be accepted.

If a valeting service is used, ensure that the specialist firm concerned are aware of, and follow these instructions precisely.

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:

1. **Never use soap, ammonia, bleach or other cleaners intended for use on hard surfaces.**
2. **Do not use upholstery cleaner on electrical equipment such as fascia switches.**

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.



WARNING:

Dry Cleaning Fluids may be toxic or flammable. Take adequate precautions when handling these products.

6-26 Maintenance

Exterior care

Note: All the cleaning materials mentioned in this section are available from the Jaguar Accessory Range.

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 blade.

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:

1. Renew the wiper blades when worn to prevent scratching. Clean regularly with a mild detergent solution.
2. It is advisable to clean the windscreen with Jaguar Screen Clean Paste at regular intervals.

6-28 Maintenance

Polishing paintwork and chromium plating

For maximum protection against road dust, salts, industrial fallout, etc., it is recommended that the vehicle is polished regularly using Jaguar Polish, Chrome Polish and a Polishing Cloth.

Paint chips

Scratches and chips should be touched in before weathering action begins. Inspect the paintwork immediately after the vehicle has been washed.

Underhood cleaning

Underhood cleaning using high pressure hoses or steam cleaners should be done by a Jaguar Dealer. Indiscriminate use of cleaning equipment could damage or contaminate the electronic control modules and fuse boxes.

Earth points

If an accessory needs to be connected to an earth point, consult a Jaguar Dealer.

Caution: Under no circumstances must holes be drilled in the bodywork to accept earth terminals.

Electrical 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.

The cigar lighter sockets can be used for plug-in accessories which are only temporarily connected to the vehicle (for example, a car vacuum cleaner).

Caution:

1. Under no circumstances must the power supply be obtained directly from either battery terminal.
2. 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.

Vehicle data

V6 Engine

3.0 litre

Type V6, dual overhead camshafts, 4 valves/cylinder

Capacity 181 inch³ (2967 cm)³

Bore 3.504 inch (89 mm)

Stroke 3.130 inch (79.5 mm)

Compression ratio 10.5 : 1

7-2 Specifications

V8 Engine

4.0 litre

Type V8, dual overhead camshafts, 4 valves/cylinder

Capacity 244 inch³ (3996 cm³)

Bore 3.386 inch (86 mm)

Stroke (3.386 inch (86 mm))

Compression ratio 10.75 : 1

Weights (average/approximate)

| | Vehicles with 3.0 litre V6 engines | | Vehicles with 4.0 litre V8 engines | |
|---|---|-----------|---|-----------|
| | lb | kg | lb | kg |
| Kerb weight (100% options) | 3895 | 1767 | 3990 | 1809 |
| Front axle kerb weight (100% options) | 2004 | 909 | 2091 | 948 |
| Rear axle kerb weight (100% options) | 1891 | 858 | 1899 | 861 |
| | | | | |
| Gross vehicle weight (G.V.W.) | 4774 | 2165 | 4873 | 2210 |
| Gross front axle weight. | 2216 | 1005 | 2304 | 1045 |
| Gross rear axle weight | 2558 | 1160 | 2569 | 1165 |

7-4 Specifications

Roof-rack capacity and trailer weights

| | lb | kg |
|---|-----------|-----------|
| Roof-rack capacity including weight of rack | 220 | 100 |
| Maximum recommended luggage compartment load with four passengers and driver | 132 | 60 |
| Note: Loads greater than that specified above may be carried in the luggage compartment, provided the maximum technically permissible axle weights shown on the vehicle identification plate, are not exceeded and the tires are inflated to the 'normal pressures' given in this Section. | | |
| Trailer weight: | | |
| Braked | 4070 | 1850 |
| Unbraked (maximum recommended) | 1650 | 750 |
| Trailer nose load | 165 | 75 |

Dimensions

| | inch | mm |
|--|----------------|--------|
| Overall length | | |
| excluding the number plate plinth | 191.4 | 4861 |
| including the number plate plinth | 192 | 4877 |
| Overall width including mirrors | 80.3 | 2040 |
| Overall width without mirrors | 71.6 | 1819 |
| Overall height (at gross vehicle weight): | | |
| – 3.0 and 4.0 litre with comfort suspension | 55.2 | 1401 |
| – 3.0 and 4.0 litre with sports suspension | 55.5 | 1411 |
| Minimum ground clearance (at gross vehicle weight) | 4.3 | 111 |
| Wheelbase | 114.5 | 2909 |
| Track: | | |
| Front | 60.51 | 1537 |
| Rear | 60.78 | 1544 |
| Turning circle: | | |
| Wall to wall | 39 ft 8 inches | 12.1 m |
| Kerb to kerb. | 37 ft 5 inches | 11.4 m |

7-6 Specifications

Tire pressures

| | | Maximum comfort – Speeds up to 100mph (160km/h) | Normal Pressures |
|-------------------------------|-------|--|---|
| 16 and 17Inch Wheels/Tires | Front | 26 lbf/in ² (1,8 kg/cm ² , 1,8 bar, 180 kPa) | 32 lbf/in ² (2,24 kg/cm ² , 2,2 bar, 220 kPa) |
| | Rear | 28 lbf/in ² (2,0 kg/cm ² , 1,9 bar, 190 kPa) | 34 lbf/in ² (2,4 kg/cm ² , 2,3 bar, 230 kPa) |
| Temporary-use spare wheel | | – | 60 lbf/in ² (4,2 kg/cm ² , 4,1 bar, 410 kPa) |

| | | | |
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