

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.

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.

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.



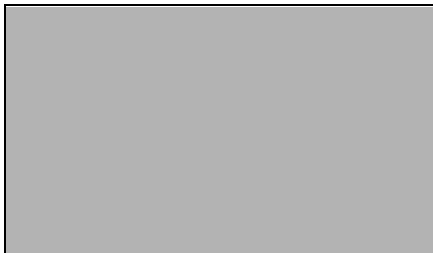
Traction/dynamic stability control

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



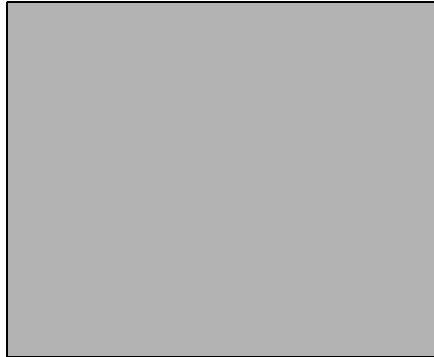
WARNING:

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

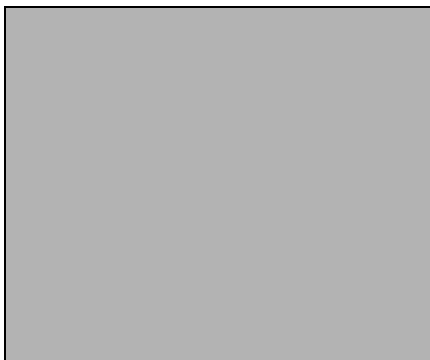
The average fuel consumption, litres per 100 kilometres or miles per imperial gallon since the last memory reset.

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.

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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.

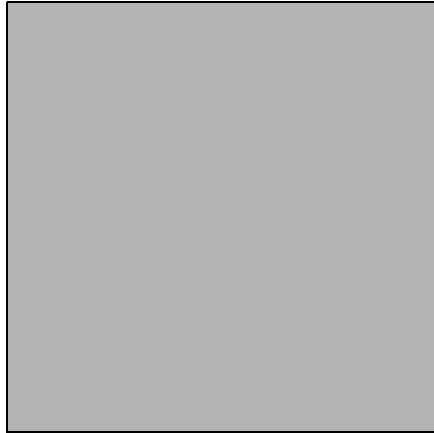
4-14 On the road

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.

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



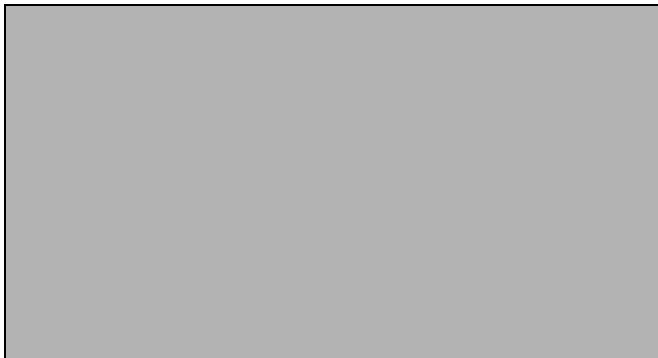
WARNING:

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.



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.



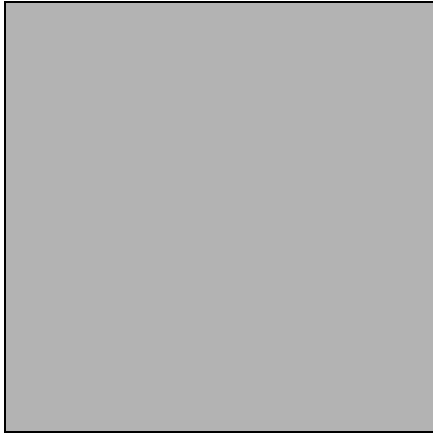
Direction indicators

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.

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.



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:

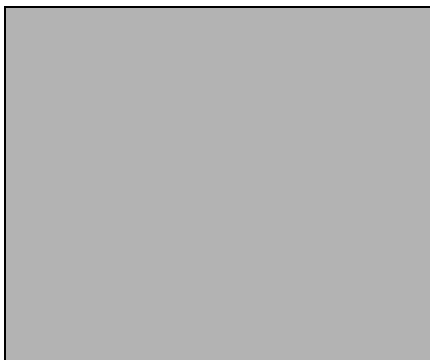
Message:

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.

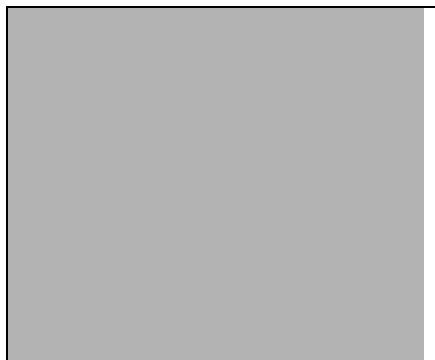
If the courtesy lights are on they will fade off when the vehicle is locked with a key or a key-ring transmitter.

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.

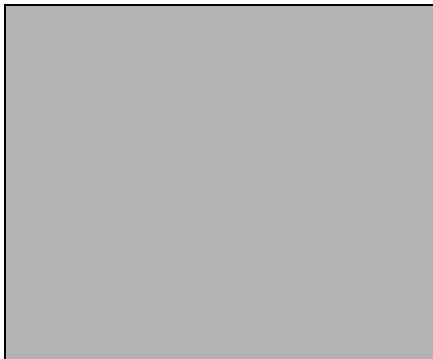
Caution: It remains the driver's responsibility to detect obstacles and estimate the car's distance from them. Some overhanging objects, barriers, thin obstructions or painted surfaces which could possibly cause damage to the vehicle may not be detected by the system. Always be vigilant when reversing.

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).

4-34 On the road



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.

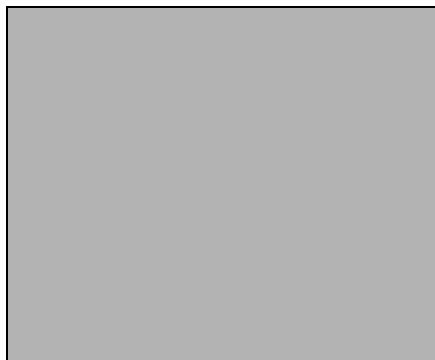
When the windscreen wash/wipe button is pressed, the headlight powerwash directs two short bursts, approximately one second apart, at the headlights. If the wash/wipe button is held, the power wash cycle will continue for up to 20 seconds.

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



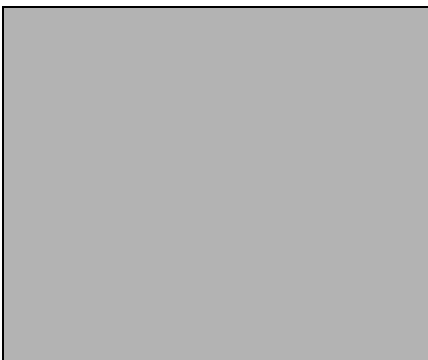
Park Brake (Handbrake)

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.

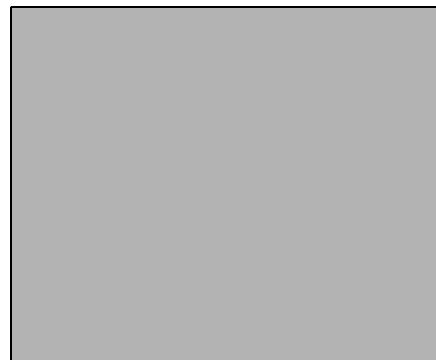
To release the park brake, lift the lever slightly, press the locking button at the end of the lever and lower fully.

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

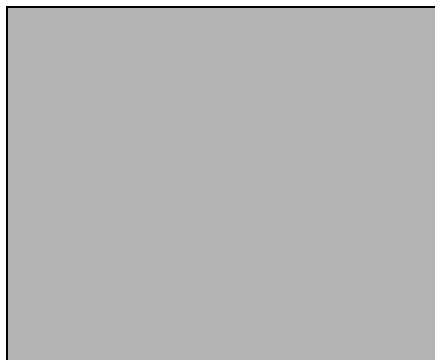
To use the cupholder, push the lid to open. After use, press the lid to close.



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.**

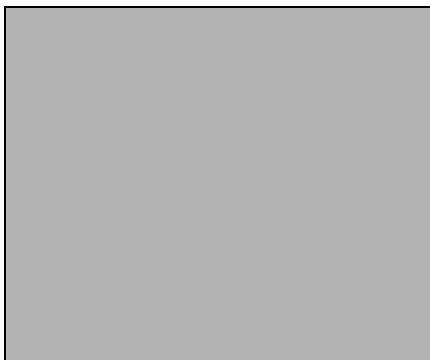
4-38 On the road



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.



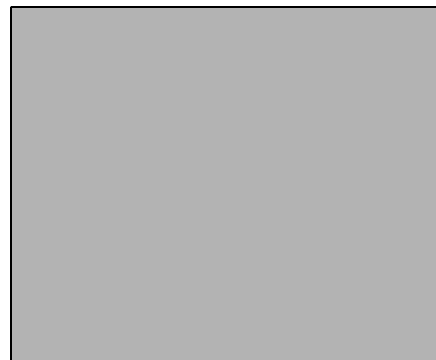
Cigar lighter and ashtray

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.

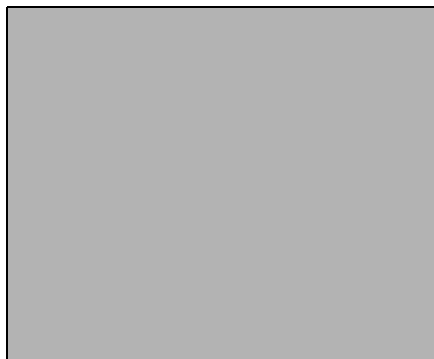
To empty the ashtray, lift it out vertically and remove. After emptying, push the ashtray into the opening until it snaps back into place.



Coin tray

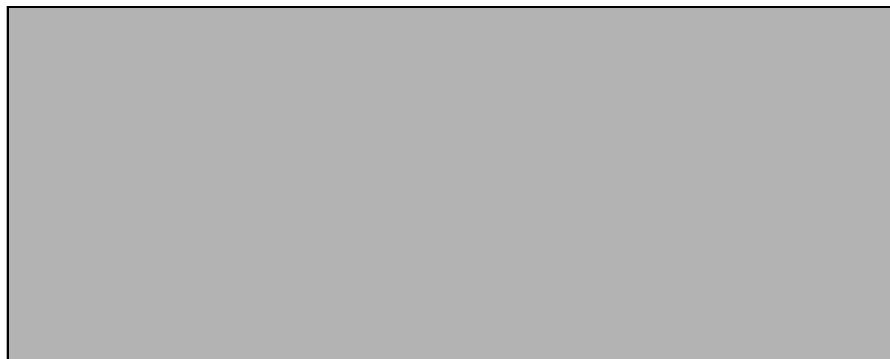
A coin tray is located beneath the audio system control panel. Gently push the drawer inwards and then release to open it. Push the open drawer into the stowage bay to close it.

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.

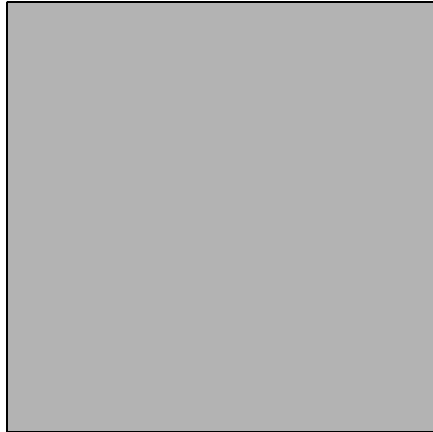
Note: The engine cannot start whilst the pedal is fully depressed, it must be released to enable the engine to start.

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.

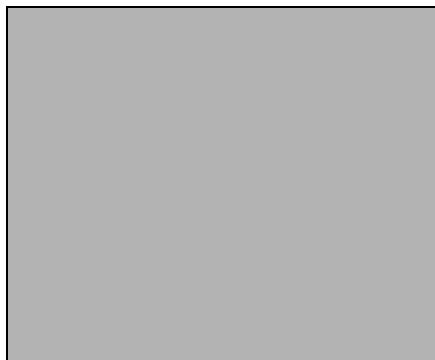
Caution: Should the warning light come on while driving, a system failure is indicated, consult a Jaguar Dealer immediately.

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:

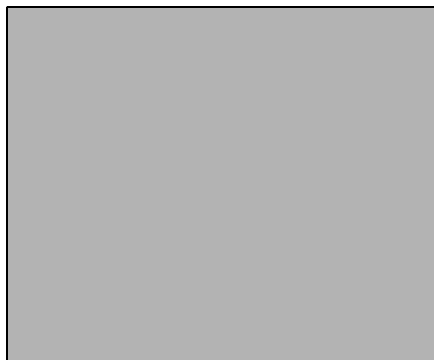
TRACTION CONTROL FAULT

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.**

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.

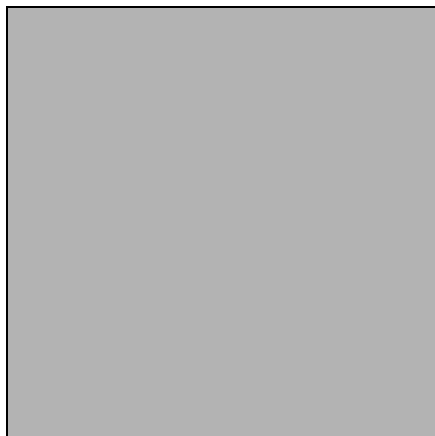
Press the switch to release the flap.

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 fuel 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.